



July 2, 2025

New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Re: Closure Request
Osage 18 Fee A Com. #001H
Incident Number: nAPP2501656936
API: 30-015-40759
32.5672683 N, -104.521204 W
Eddy County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Oxy USA, Inc. (Oxy), has prepared the following *Closure Request* to document the excavation and soil sampling activities completed to date to address impacted soil identified at Osage 18 Fee A Com. #001H (Site). Soil was impacted by a release of produced water and crude oil onto the well pad at the Site. Based on the excavation activities and analytical results from the soil sampling events, Oxy is submitting this Closure Request, describing remediation that has occurred and requesting closure for Incident Number nAPP2501656939.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit O, Section 18, Township 20 South, Range 25 East, in Eddy County, New Mexico (32.5672683 N, -104.521204 W) and is associated with oil and gas exploration and production operations on private land managed by ConocoPhillips.

On January 4, 2025, there was an equipment failure which resulted in the release of 7 barrels (bbls) of produced water and 3 bbls of crude oil onto the well pad, with none recovered. The release was reported to the New Mexico Oil Conservation Division (NMOCD) on January 17, 2025 and the release was assigned Incident Number nAPP2501656936.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess the applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented on NMOCD Portal of the Form C-141, Site Assessment/Characterization submitted on January 17, 2025. Potential site receptors are identified on **Figure 4 in Appendix A**.

Depth to groundwater at the Site is between 100 to 500 feet below ground surface (ft bgs) based on the nearest groundwater well data. A State Engineer Office permitted well (RA-04349) measured groundwater to a depth of 170 feet bgs located approximately 1.05 miles northeast of the Site and is depicted on **Figure 4 in Appendix A**. The Well Record is included in **Appendix B**.

The closest continuously flowing or significant watercourse to the Site is a intermittent stream located approximately 212 feet north of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, or church.

It is located between 200 to 300 feet of a wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is underlain by unstable geology (high potential karst designation area).

Based on the results of the Site Characterization, the following NMOCD Table I Closure Criteria (Closure Criteria) apply:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH): 100 mg/kg
- Chloride: 600 mg/kg

SITE ASSESSMENT AND DELINEATION ACTIVITIES

On February 17 and 18, 2024, Ensolum personnel conducted a Site visit to evaluate the release extent based on information provided on the Form C-141 and visual observations. Ensolum personnel collected 24 pothole soil samples from 7 locations (CS01 through CS07) within the release extent from depths varying from 1 foot to 11 feet bgs utilizing a backhoe to assess the vertical extent of the release. The soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID), and chloride using Hach® chloride QuanTab® test strips. The release extent and soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on **Figure 3 (Appendix A)**. Photographic documentation was completed during the Site visit and a Photographic Log is included in **Appendix C**.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico, for analysis of BTEX, following United States Environmental Protection Agency (EPA) Method 8021B; TPH-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following Standard Method SM-4500 Cl-B.

Laboratory analytical results for the delineation soil samples CS01 (1 ft bgs), CS04 (3 ft bgs), CS05 (3 ft bgs), and CS06 (3 ft bgs), collected within the release extent, indicated chloride concentrations exceeding the Closure Criteria. Laboratory analytical results for the delineation soil sample CS01 (1 ft bgs) exhibited a TPH concentration exceeding the Closure Criteria. The laboratory analytical results for the remaining soil samples collected indicated benzene, BTEX, TPH and chloride concentrations were compliant with the Closure Criteria. Laboratory analytical results are summarized on **Table 1 (Appendix D)**. Complete laboratory analytical reports are included in **Appendix E**. Based on laboratory analytical results, additional remediation activities were warranted.

EXCAVATION SOIL SAMPLING ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

Between March 19, 2025, and April 8, 2025, Ensolum personnel returned to the Site to collect 5-point composite soil samples every 200 square feet from the excavation extent. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite excavation soil samples were collected from 90 locations from the excavation floor (FS01 through FS90) at depths ranging between 7 feet bgs to 10 feet bgs to confirm the absence of impacted soil. Composite sidewall excavation soil samples were collected from 34 locations from the excavation sidewalls (SW01 through SW34) at depths ranging from 0-7 to 0-10 feet bgs to confirm the lateral extent of the impacted soil. The soil samples were handled and analyzed following the same procedures as described above.

Oxy USA, Inc.
Closure Report
Osage 18 Fee A Com. #001H

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The soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on **Figure 3 (Appendix A)**. Photographic documentation was completed during the Site visits and a photographic log is included as **Appendix C**.

Laboratory analytical results for the final confirmation soil samples collected from the excavation floor (FS01 through FS90) and excavation sidewalls (SW01 through SW34) indicated all COCs were compliant with the Site Closure Criteria.

The excavation area measured approximately 15,603 square feet. A total of 4,877 cubic yards of impacted soil were removed during the excavation activities. The impacted soil was transported and properly disposed of at the Lea Land in Lea County, New Mexico.

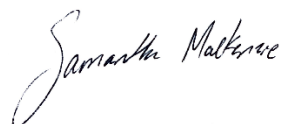
Subsequent to the results of the final confirmation soil sampling, the excavated areas were backfilled with clean fill material and contoured to the original surrounding grade. Two representative 5-point composite soil samples (Bryksaw Caliche Pit Caliche Sample and Bryksaw Caliche Pit Topsoil Sample) were collected from the backfill material prior to use at the Site. Laboratory analytical results for the backfill soil samples confirmed compliance with the NMOCD requirements for the reclaimed area to be non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg and TPH concentrations less than 100 mg/kg. The laboratory analytical results are summarized in the attached **Table 2**, and the complete laboratory analytical report is included in **Appendix E**.

CLOSURE REQUEST

Site assessment and remediation activities were conducted at the Site to address the January 4, 2025 produced water and crude oil release. Laboratory analytical results for the soil samples collected from the final excavation extent indicated all COC concentrations were compliant with the Site Closure Criteria. Based on the laboratory analytical results, no further remediation is required at this time. Oxy has completed backfill of the excavation with material purchased locally and recontoured the Site to match pre-existing conditions. As such, Oxy respectfully requests closure for Incident Number nAPP2501656936.

If you have any questions or comments, please contact Ms. Samantha MacKenzie at (703) 357-3545 or smackenzie@ensolum.com.

Sincerely,
Ensolum, LLC



Samantha MacKenzie
Staff Geologist



Beaux Jennings
Associate Principal

cc: Jessica Kent, Oxy USA, Inc.
Daniel Sparks, Oxy USA, Inc.
New Mexico Bureau of Land Management

Appendices:

Appendix A Figures
Appendix B Supporting Documentation
Appendix C Photographic Log



Oxy USA, Inc.
Closure Report
Osage 18 Fee A Com. #001H

July 2, 2025

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Appendix D Table

Appendix E Laboratory Analytical Reports & Chain-of-Custody Documentation



APPENDIX A

Figures

1



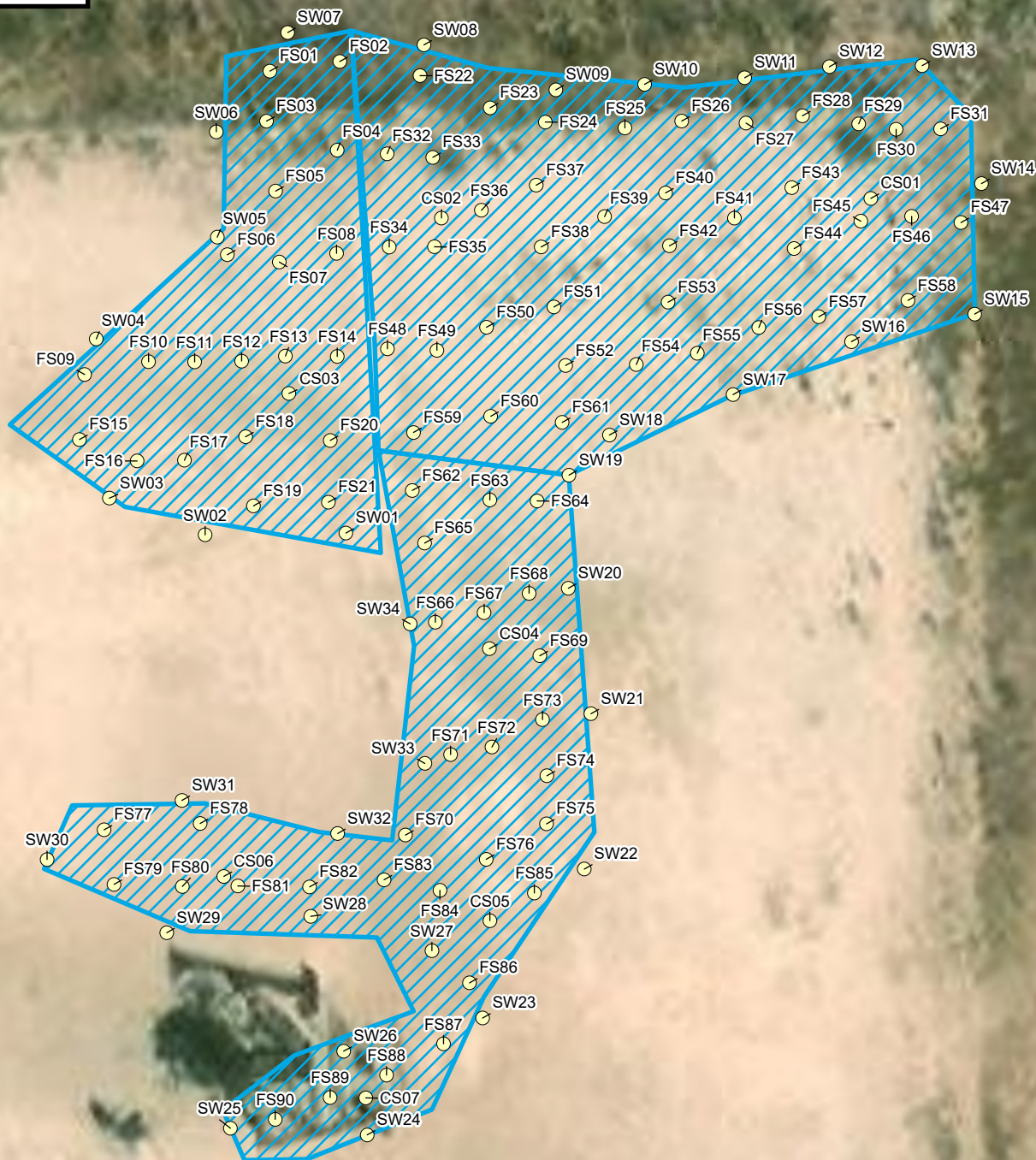
Site Vicinity Map

Oxy USA Inc.
Osage 18 Fee A Com. #001H
Project Number: 03B1417261
32.5672683, -104.521204
Eddy County, New Mexico

FIGURE
2

Legend

- Sample Location
- ▨ Excavation Extent



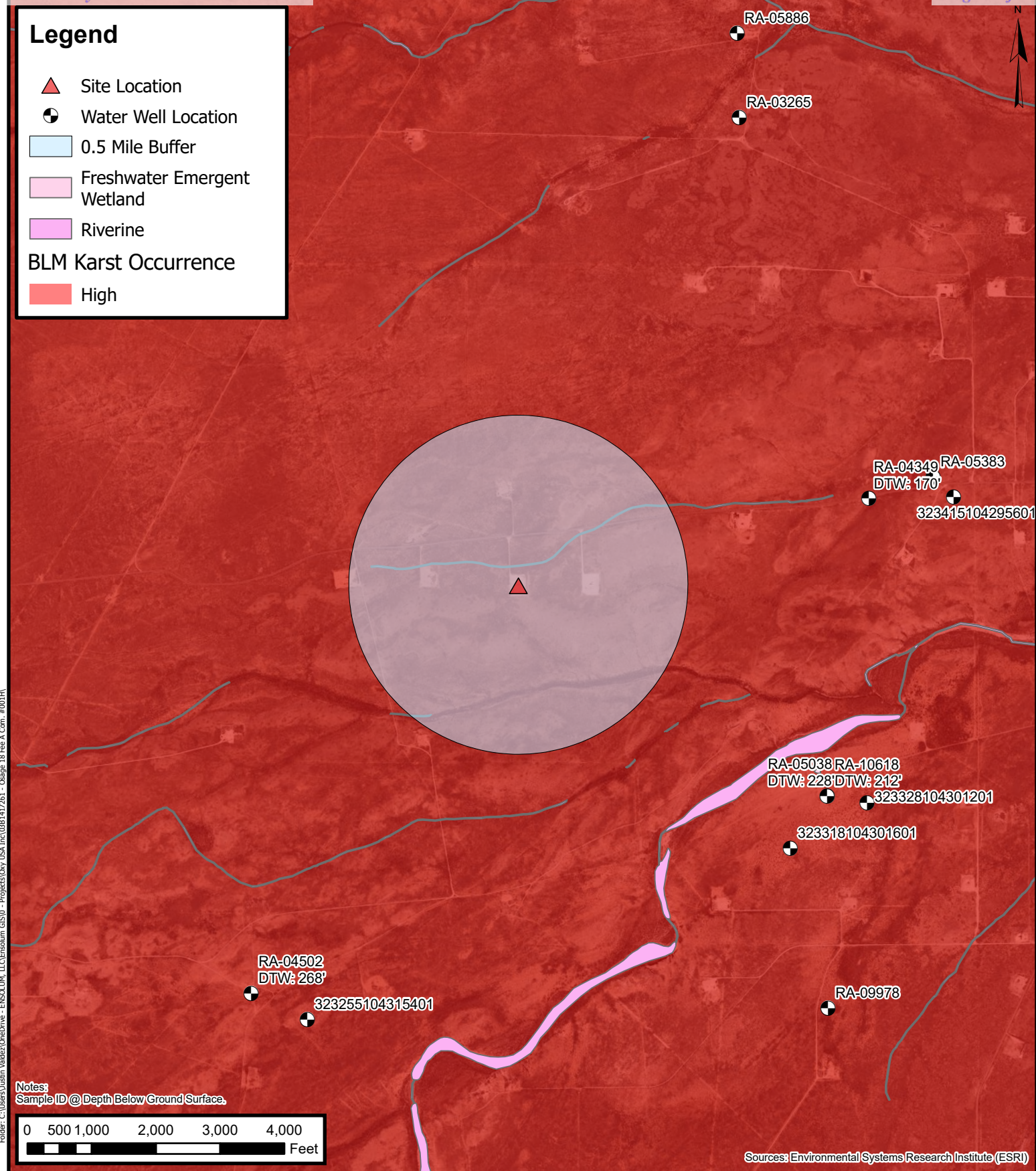
0 15 30 60
Feet

Sources: Environmental Systems Research Institute (ESRI)

**Site Map**

Oxy USA Inc.
Osage 18 Fee A Com. #001H
Project Number: 03B1417261
32.5672683, -104.521204
Eddy County, New Mexico

FIGURE**3**



Closure Criteria Map

Oxy USA Inc.
Osage 18 Fee A Com. #001H
Project Number: 03B1417261
32.5672683, -104.521204
Eddy County, New Mexico

FIGURE
4





APPENDIX B

Supporting Documentation

Form WR-23

STATE ENGINEER OFFICE

SANTA FE

WELL RECORD

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the nearest district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1A and Section 5 need be completed.

Section 1

				(A) Owner of well	Herman and George Brown		
				Street and Number	1133 Petroleum Life Bldg.		
				City	Midland	State	Texas
				Well was drilled under Permit No.	R.A. 4349	and is located in the	
					SE 1/4 NW 1/4 SE 1/4 of Section 17	Twp. 20S	Rge. 25E
				(B) Drilling Contractor	Willard Beaty		
				License No.	WD62		
				Street and Number	1102 Merchant Box 382		
				City	Artesia	State	N. Mex.
				Drilling was commenced	Dec. 24		1960
				Drilling was completed	Dec. 27		1960

(Plat of 640 acres)

Elevation at top of casing in feet above sea level 1 Total depth of well 231
State whether well is shallow or artesian shallow Depth to water upon completion 170

Section 2

PRINCIPAL WATER-BEARING STRATA

No.	Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation
	From	To		
1	218	228	10	
2				
3				
4				
5				

Section 3

RECORD OF CASING

Dia in.	Pounds ft.	Threads in	Depth		Feet	Type Shoe	Perforations	
			Top	Bottom			From	To
7"OD.	17							

Section 4

RECORD OF MUDDING AND CEMENTING

Depth in Feet		Diameter Hole in in.	Tons Clay	No. Sacks of Cement	Methods Used
From	To				

Section 5

PLUGGING RECORD

Name of Plugging Contractor _____ License No. _____
Street and Number _____ City _____ State _____
Tons of Clay used _____ Tons of Roughage used _____ Type of roughage _____
Plugging method used _____ Date Plugged _____ 19 _____
Plugging approved by: _____ Cement Plugs were placed as follows:

Basin Supervisor		No.		Depth of Plug	No. of Sacks Used	
				From	To	

FOR USE OF STATE ENGINEER ONLY

Date Received 42:8 WA 11 MAR 1961

File No. RA-4349 Use Dom. Location No. 20.25.17.414

LOG OF WELL

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described well.

Well Driller

Samantha MacKenzie

From: Rodgers, Scott, EMNRD <Scott.Rodgers@emnrd.nm.gov>
Sent: Tuesday, April 1, 2025 4:53 PM
To: Samantha MacKenzie
Cc: Wade Dittrich; jessica_kent@oxy.com; Beaux Jennings
Subject: RE: [EXTERNAL] Extension Request - Osage 18 Fee A Com. #001H (nAPP2501656936)

[**EXTERNAL EMAIL**]

Your time extension request is approved. Remediation Due date has been updated to May 4, 2025 within the incident page. Ensure that the site characterization/assessment report has been completed and is provided within the final closure report.

Please keep a copy of this communication for inclusion within the appropriate reporting documentation.

The OCD requires a copy of all correspondence related to remedial activities be included in all proposals, weekly/monthly/quarterly/semi-annual/annual, or final closure reports. Correspondence reporting requirements may include, but not limited to, time extension requests, sample event notifications, and variance requests.

If you have any questions, please contact me via email at your convenience.

Thank you,
Scott

Scott Rodgers • Environmental Specialist – Adv.
Environmental Bureau
EMNRD - Oil Conservation Division
5200 Oakland NE, Suite B | Albuquerque, NM 87113
505.469.1830 | scott.rodgers@emnrd.nm.gov
<http://www.emnrd.nm.gov/oed>



From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Tuesday, April 1, 2025 3:23 PM
To: Rodgers, Scott, EMNRD <Scott.Rodgers@emnrd.nm.gov>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: FW: [EXTERNAL] Extension Request - Osage 18 Fee A Com. #001H (nAPP2501656936)

From: Samantha MacKenzie <smackenzie@ensolum.com>
Sent: Tuesday, April 1, 2025 3:03 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrn.nm.gov>
Cc: Dittrich, John W <wade_dittrich@oxy.com>; Kent, Jessica <jessica_kent@oxy.com>; Beaux Jennings <bjennings@ensolum.com>
Subject: [EXTERNAL] Extension Request - Osage 18 Fee A Com. #001H (nAPP2501656936)

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

Hello,

On behalf of Oxy USA, Inc, Ensolum, LLC would like to request a 30-day extension for the Osage 18 Fee A Com. #001H (nAPP2501656936). The original due date was April 4th, 2025, Oxy would appreciate an additional 30 extension making the new deadline May 4th, 2025.

Due to the size of the excavation and the number of samples needed the remediation process has taken longer than anticipated. The site has not been fully remediated, and we would like an additional 30 days to complete the remediation and drafting of the closure report. Therefore, we humbly ask for an extension so that we may complete the remediation as well as the report and so it can be thoroughly reviewed before submitting the final copy to the portal. Please let us know if you have any questions.

Thank you so much for your time!



Samantha MacKenzie

Staff Geologist

703-357-3545

Ensolum, LLC

in f X

Samantha MacKenzie

From: Rodgers, Scott, EMNRD <Scott.Rodgers@emnrd.nm.gov>
Sent: Tuesday, May 6, 2025 11:14 AM
To: Samantha MacKenzie
Cc: jessica_kent@oxy.com; Beaux Jennings
Subject: RE: [EXTERNAL] Extension Request - Osage 18 Fee A Com. #001H (nAPP2501656936)

[**EXTERNAL EMAIL**]

Your time extension request is approved. Remediation Due date has been updated to June 4, 2025 within the incident page. Ensure that the site characterization/assessment report has been completed and is provided within the final closure report.

Please keep a copy of this communication for inclusion within the appropriate reporting documentation.

The OCD requires a copy of all correspondence related to remedial activities be included in all proposals, weekly/monthly/quarterly/semi-annual/annual, or final closure reports. Correspondence reporting requirements may include, but not limited to, time extension requests, sample event notifications, and variance requests.

If you have any questions, please contact me via email at your convenience.

Thank you.

Regards,

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Environmental Bureau
EMNRD - Oil Conservation Division
5200 Oakland NE, Suite B | Albuquerque, NM 87113
505.469.1830 | scott.rodgers@emnrd.nm.gov
<http://www.emnrd.nm.gov/oed>



From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Monday, May 5, 2025 7:20 AM
To: Rodgers, Scott, EMNRD <Scott.Rodgers@emnrd.nm.gov>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: FW: [EXTERNAL] Extension Request - Osage 18 Fee A Com. #001H (nAPP2501656936)

From: Samantha MacKenzie <smackenzie@ensolum.com>
Sent: Sunday, May 4, 2025 5:59 PM

To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>

Cc: Kent, Jessica <jessica_kent@oxy.com>; Beaux Jennings <bjennings@ensolum.com>

Subject: [EXTERNAL] Extension Request - Osage 18 Fee A Com. #001H (nAPP2501656936)

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Hello,

On behalf of Oxy USA, Inc, Ensolum, LLC would like to request a 30-day extension for the Osage 18 Fee A Com. #001H (nAPP2501656936).

The Site have just recently been completed to meet the Closure Criteria Limits specific to this location. The site has been fully remediated. We will begin the drafting the Closure for this Site. Therefore, we humbly ask for an extension so that we may backfill and complete the report and so it can be thoroughly reviewed before submitting the final copy to the portal. Please let us know if you have any questions.

Thank you so much for your time!



Samantha MacKenzie

Staff Geologist

703-357-3545

Ensolum, LLC

in f X

Samantha MacKenzie

From: Rodgers, Scott, EMNRD <Scott.Rodgers@emnrd.nm.gov>
Sent: Wednesday, June 4, 2025 11:26 AM
To: Samantha MacKenzie
Cc: jessica_kent@oxy.com; Beaux Jennings; Sparks, Daniel (DANOS LLC); Barnett, Frank
Subject: RE: [EXTERNAL] Extension Request - Osage 18 Fee A Com. #001H (nAPP2501656936)

[**EXTERNAL EMAIL**]

Good morning,

Your time extension request is approved. Remediation Due date has been updated to July 3, 2025 within the incident page. Please note that this is the last and final extension approval for this incident.

Please keep a copy of this communication for inclusion within the appropriate reporting documentation.

The OCD requires a copy of all correspondence related to remedial activities be included in all proposals, weekly/monthly/quarterly/semi-annual/annual, or final closure reports. Correspondence reporting requirements may include, but not limited to, time extension requests, sample event notifications, and variance requests.

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<http://www.emnrd.nm.gov/oed>



From: Samantha MacKenzie <smackenzie@ensolum.com>
Sent: Tuesday, June 3, 2025 4:22 PM
To: Rodgers, Scott, EMNRD <Scott.Rodgers@emnrd.nm.gov>
Cc: jessica_kent@oxy.com; Beaux Jennings <bjenings@ensolum.com>; Sparks, Daniel (DANOS LLC) <daniel_sparks@oxy.com>; Barnett, Frank <frank_barnett@oxy.com>
Subject: RE: [EXTERNAL] Extension Request - Osage 18 Fee A Com. #001H (nAPP2501656936)

Good afternoon,

On behalf of Oxy USA, Inc, Ensolum, LLC would like to request a 30-day extension for the Osage 18 Fee A Com. #001H (nAPP2501656936).

The Site has been completed to meet the Closure Criteria Limits specific to this location. The site has been fully remediated. We have drafted the Closure report for this Site. Therefore, we humbly ask for an extension so that we may continue to backfill and complete the report and so it can be thoroughly reviewed before submitting the final copy to the portal. Please let us know if you have any questions.

Thank you so much for your time!



Samantha MacKenzie

Staff Geologist

703-357-3545

Ensolum, LLC

in f X

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To: Samantha MacKenzie <smackenzie@ensolum.com>

Cc: jessica_kent@oxy.com; Beaux Jennings <bjennings@ensolum.com>

Subject: RE: [EXTERNAL] Extension Request - Osage 18 Fee A Com. #001H (nAPP2501656936)

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Thank you.

Regards,

Scott Rodgers • Environmental Specialist – Adv.

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Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
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Cc: Kent, Jessica <jessica_kent@oxy.com>; Beaux Jennings <bjennings@ensolum.com>
Subject: [EXTERNAL] Extension Request - Osage 18 Fee A Com. #001H (nAPP2501656936)

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Samantha MacKenzie

Staff Geologist

703-357-3545

Ensolum, LLC

in f X



APPENDIX C

Photographic Documentation



Photographic Log

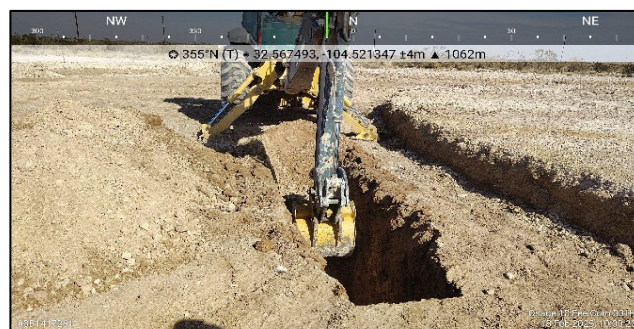
Oxy USA Inc.

Osage 18 Fee A Com. #001H

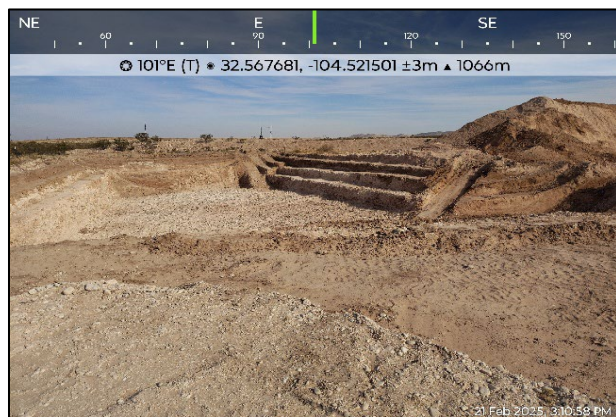
Incident Number nAPP2501656936



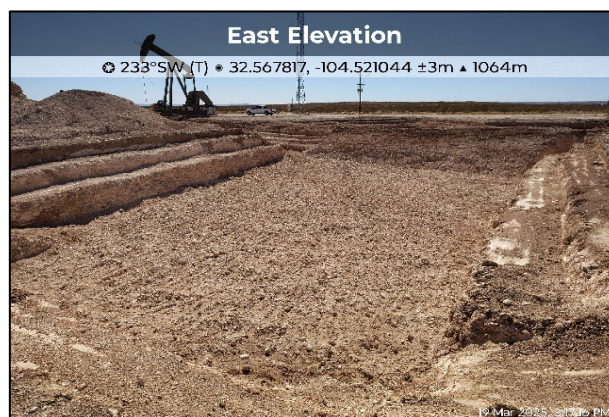
Photograph: 1 Date: 2/18/2025
Description: Excavation Activities
View: South



Photograph: 2 Date: 2/18/2025
Description: Pothole Activities
View: North



Photograph: 3 Date: 2/21/2025
Description: Excavation Activities
View: East



Photograph: 4 Date: 3/19/2025
Description: Excavation Activities
View: East



Photographic Log

Oxy USA Inc.

Osage 18 Fee A Com. #001H

Incident Number nAPP2501656936

North East

68°NE (T) • 32.567578, -104.521605 ±9ft ▲ 3481ft



Photograph: 5
Description: Excavation Activities
View: North

Date: 4/8/2025

East

98°E (T) • 32.567802, -104.521463 ±9ft ▲ 3477ft



Photograph: 6
Description: Excavation Activities
View: East

Date: 4/8/2025



Photograph: 7
Description: Backfill
View: East

Date: 6/16/2025



Photograph: 8
Description: Backfill
View: Southwest

Date: 6/16/2025



APPENDIX D

Table

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Osage 18 Fee A Com. #001H
Oxy USA, Inc.
Eddy County, New Mexico
Ensolum Project No. 03B1417261

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO C ₆ -C ₁₂ (mg/kg)	TPH DRO >C ₁₂ -C ₂₈ (mg/kg)	TPH MRO >C ₂₈ -C ₃₅ (mg/kg)	TPH Total C ₆ -C ₃₅ (mg/kg)	Chloride (mg/kg)
New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release			10	NE	NE	NE	50	NE	NE	NE	100	600
Delineation Soil Sample Analytical Results												
CS01	02/17/2025	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	199	32.9	232	1,330
	02/17/2025	6	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	368
	02/17/2025	7	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	352
	02/17/2025	10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	416
CS02	02/17/2025	3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	112
	02/17/2025	11	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	22.4	<10.0	22.4	<16.0
CS03	02/18/2025	3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	64.0
	02/18/2025	5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	112
	02/18/2025	7	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	48.0
	02/18/2025	11	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	112
CS04	02/18/2025	3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	3,280
	02/18/2025	5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	240
	02/18/2025	7	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	80.0
CS05	02/18/2025	3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	736
	02/18/2025	5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	224
	02/18/2025	9	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	368
CS06	02/18/2025	3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	1,140
	02/18/2025	7	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	256
	02/18/2025	9	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	592
	02/18/2025	11	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	400
CS07	02/18/2025	3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	48.0
	02/18/2025	7	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	208
	02/18/2025	9	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	176
	02/18/2025	11	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	208
Confirmation Floor Soil Sample Analytical Results												
FS01	3/19/2025	10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	146	19.2	165	784
	4/8/2025	10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	20.1	<10.0	20.1	80.0
FS02	3/19/2025	10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	251	42.0	293	1,170
	4/8/2025	10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
FS03	3/19/2025	10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	640
	4/8/2025	10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
FS04	3/19/2025	10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	17.6	<10.0	17.6	688
	4/8/2025	10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
FS05	3/19/2025	10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	352
FS06	3/19/2025	10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	384
FS07	3/19/2025	8	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	352

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Osage 18 Fee A Com. #001H
Oxy USA, Inc.
Eddy County, New Mexico
Ensolum Project No. 03B1417261

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO C ₆ -C ₁₂ (mg/kg)	TPH DRO >C ₁₂ -C ₂₈ (mg/kg)	TPH MRO >C ₂₈ -C ₃₅ (mg/kg)	TPH Total C ₆ -C ₃₅ (mg/kg)	Chloride (mg/kg)
New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release			10	NE	NE	NE	50	NE	NE	NE	100	600
FS08	3/19/2025	8	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	352
FS09	3/19/2025	8	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	336
FS10	3/19/2025	8	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	512
FS11	3/19/2025	8	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	304
FS12	3/19/2025	8	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	256
FS13	3/19/2025	8	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	608
	4/8/2025	8	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
FS14	3/19/2025	8	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	48.0
FS15	3/19/2025	8	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	160
FS16	3/19/2025	8	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	224
FS17	3/19/2025	8	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	192
FS18	3/19/2025	8	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	80.0
FS19	3/19/2025	8	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	112
FS20	3/19/2025	8	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	160
FS21	3/19/2025	10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	160
FS22	3/19/2025	10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	94.1	22.9	117	3,520
	4/8/2025	10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
FS23	3/19/2025	10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	66.4	10.1	76.5	2,400
	4/8/2025	10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
FS24	3/19/2025	10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	23.5	<10.0	23.5	864
	4/8/2025	10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
FS25	3/19/2025	10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	176
FS26	3/19/2025	10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	208
FS27	3/19/2025	10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	352
FS28	3/19/2025	10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	192
FS29	3/19/2025	10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	512
FS30	3/19/2025	10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	256
FS31	3/19/2025	10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	336
FS32	3/19/2025	10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	10.9	<10.0	10.9	1,490
	4/8/2025	10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
FS33	3/19/2025	10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	256
FS34	3/19/2025	10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	80.0
FS35	3/19/2025	10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	256
FS36	3/19/2025	10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	176
FS37	3/19/2025	10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	784
	4/8/2025	10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	48.0
FS38	3/19/2025	10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	384

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Osage 18 Fee A Com. #001H
Oxy USA, Inc.
Eddy County, New Mexico
Ensolum Project No. 03B1417261

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO C ₆ -C ₁₂ (mg/kg)	TPH DRO >C ₁₂ -C ₂₈ (mg/kg)	TPH MRO >C ₂₈ -C ₃₅ (mg/kg)	TPH Total C ₆ -C ₃₅ (mg/kg)	Chloride (mg/kg)
New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release			10	NE	NE	NE	50	NE	NE	NE	100	600
FS39	3/19/2025	10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	688
	4/8/2025	10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
FS40	3/19/2025	10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	10.6	<10.0	10.6	784
	4/8/2025	10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
FS41	3/19/2025	10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	320
FS42	3/19/2025	10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	496
FS43	3/19/2025	10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	592
FS44	3/19/2025	10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	784
	4/8/2025	10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	64.0
FS45	3/19/2025	10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	960
	4/8/2025	10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
FS46	3/19/2025	10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	16.5	<10.0	16.5	576
FS47	3/19/2025	10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	176
FS48	3/19/2025	10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	19.8	<10.0	19.8	528
FS49	3/19/2025	10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	30.0	<10.0	30.0	768
	4/8/2025	10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
FS50	3/19/2025	10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	30.3	<10.0	30.3	560
FS51	3/19/2025	10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	368
FS52	3/19/2025	10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	352
FS53	3/19/2025	10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	304
FS54	3/19/2025	10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	256
FS55	3/19/2025	10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	128
FS56	3/19/2025	10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	496
FS57	3/19/2025	10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	864
	4/8/2025	10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	48.0
FS58	3/19/2025	10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	80.0
FS59	3/19/2025	10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	14.6	<10.0	14.6	448
FS60	3/19/2025	10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	10.0	<10.0	10.0	352
FS61	3/19/2025	10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	192
FS62	3/19/2025	10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	33.3	<10.0	33.3	528
FS63	3/19/2025	10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	16.2	<10.0	16.2	464
FS64	3/19/2025	10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	288
FS65	3/19/2025	7	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	352
FS66	3/19/2025	7	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	21.4	<10.0	21.4	464
FS67	3/19/2025	7	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	31.5	<10.0	31.5	320
FS68	3/19/2025	7	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	224
FS69	3/19/2025	7	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	26.9	<10.0	26.9	272

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SOIL SAMPLE ANALYTICAL RESULTS
Osage 18 Fee A Com. #001H
Oxy USA, Inc.
Eddy County, New Mexico
Ensolum Project No. 03B1417261

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO C ₆ -C ₁₂ (mg/kg)	TPH DRO >C ₁₂ -C ₂₈ (mg/kg)	TPH MRO >C ₂₈ -C ₃₅ (mg/kg)	TPH Total C ₆ -C ₃₅ (mg/kg)	Chloride (mg/kg)
New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release			10	NE	NE	NE	50	NE	NE	NE	100	600
FS70	3/19/2025	7	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	17.9	<10.0	17.9	1,310
	4/8/2025	7	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
FS71	3/19/2025	7	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	39.1	<10.0	39.1	1,310
	4/8/2025	7	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
FS72	3/19/2025	7	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	36.6	<10.0	36.6	1,390
	4/8/2025	7	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
FS73	3/19/2025	7	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	576
FS74	3/19/2025	7	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	33.2	<10.0	33.2	1,220
	4/8/2025	7	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	48.0
FS75	3/19/2025	7	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	40.6	<10.0	40.6	1,380
	4/8/2025	7	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
FS76	3/19/2025	7	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	44.0	<10.0	44.0	1,500
	4/8/2025	7	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
FS77	3/19/2025	7	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	176
FS78	3/19/2025	7	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	64.0
FS79	3/19/2025	7	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	256
FS80	3/19/2025	7	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	48.0
FS81	3/19/2025	7	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	240
FS82	3/19/2025	7	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	368
FS83	3/19/2025	7	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	544
FS84	3/19/2025	7	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	19.2	<10.0	19.2	752
	4/8/2025	7	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
FS85	3/19/2025	7	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	12.6	<10.0	12.6	992
	4/8/2025	7	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
FS86	3/19/2025	7	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	640
	4/8/2025	7	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
FS87	3/19/2025	7	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	48.0
FS88	3/19/2025	7	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	336
FS89	3/19/2025	7	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	560
FS90	3/19/2025	7	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	256

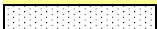
TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Osage 18 Fee A Com. #001H
Oxy USA, Inc.
Eddy County, New Mexico
Ensolum Project No. 03B1417261

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO C ₆ -C ₁₂ (mg/kg)	TPH DRO >C ₁₂ -C ₂₈ (mg/kg)	TPH MRO >C ₂₈ -C ₃₅ (mg/kg)	TPH Total C ₆ -C ₃₅ (mg/kg)	Chloride (mg/kg)
New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release			10	NE	NE	NE	50	NE	NE	NE	100	600
Confirmation Sidewall Soil Sample Analytical Results												
SW01	3/19/2025	0 - 8	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	64.0
SW02	3/19/2025	0 - 8	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	336
SW03	3/19/2025	0 - 8	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	272
SW04	3/19/2025	0 - 8	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	256
SW05	3/19/2025	0 - 10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	416
SW06	3/19/2025	0 - 10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	43.1	<10.0	43.1	576
SW07	3/19/2025	0 - 10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	268	48.4	316	1,460
	4/8/2025	0 - 10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	48.0
SW08	3/19/2025	0 - 10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	27.2	<10.0	27.7	1,440
	4/8/2025	0 - 10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
SW09	3/19/2025	0 - 10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	240
SW10	3/19/2025	0 - 10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
SW11	3/19/2025	0 - 10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	288
SW12	3/19/2025	0 - 10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	48.0
SW13	3/19/2025	0 - 10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	17.2	<10.0	17.2	256
SW14	3/19/2025	0 - 10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	320
SW15	3/19/2025	0 - 10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	144
SW16	3/19/2025	0 - 10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	1,470
	4/8/2025	0 - 10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
SW17	3/19/2025	0 - 10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
SW18	3/19/2025	0 - 10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	176
SW19	3/19/2025	0 - 7	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	240
SW20	3/19/2025	0 - 7	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	400
SW21	3/19/2025	0 - 7	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	688
	4/8/2025	0 - 7	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	144
SW22	3/19/2025	0 - 7	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	688
	4/8/2025	0 - 7	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
SW23	3/19/2025	0 - 7	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	384
SW24	3/19/2025	0 - 7	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	1,950
	4/8/2025	0 - 7	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
SW25	3/19/2025	0 - 7	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	320
SW26	3/19/2025	0 - 7	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	496
SW27	3/19/2025	0 - 7	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	672
	4/8/2025	0 - 7	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	80.0
SW28	3/19/2025	0 - 7	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	208
SW29	3/19/2025	0 - 7	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	304

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Osage 18 Fee A Com. #001H
Oxy USA, Inc.
Eddy County, New Mexico
Ensolum Project No. 03B1417261

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO C ₆ -C ₁₂ (mg/kg)	TPH DRO >C ₁₂ -C ₂₈ (mg/kg)	TPH MRO >C ₂₈ -C ₃₅ (mg/kg)	TPH Total C ₆ -C ₃₅ (mg/kg)	Chloride (mg/kg)
New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release			10	NE	NE	NE	50	NE	NE	NE	100	600
SW30	3/19/2025	0 - 7	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	144
SW31	3/19/2025	0 - 7	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	144
SW32	3/19/2025	0 - 7	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	240
SW33	3/19/2025	0 - 7	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	17.2	<10.0	17.2	800
	4/8/2025	0 - 7	<0.050	<0.050	<0.050	<0.150	<0.300	10.2	<10.0	<10.0	10.2	368
SW34	3/19/2025	0 - 7	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	112

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

 represents samples that have been excavated or resampled

bgs: below ground surface

NE: Not Established

mg/kg: milligrams per kilogram

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

MRO: Motor Oil/Lube Oil Range Organics

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

TPH: Total Petroleum Hydrocarbons



TABLE 2
BACKFILL SOIL SAMPLE ANALYTICAL RESULTS
 Bryksaw Caliche Pit
 Oxy USA, Inc.
 Eddy County, New Mexico
 Ensolum Project No. NA

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total TPH (GRO+DRO+MRO) (mg/kg)	Chloride (mg/kg)
New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release (≤ 50 feet)			10	NE	NE	NE	50	NE	NE	NE	100	600
Composite Background Soil Sample Analytical Result												
BRYKSAW CALICHE PIT CALICHE SAMPLE	3/21/2025	NA	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	68.0	<10.0	68.0	<16.0
BRYKSAW CALICHE PIT TOPSOIL SAMPLE	03/21/2025	NA	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0

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 Data Sheets and Chain-of-Custody Documentation



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

February 25, 2025

SAMANTHA MACKENZIE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: OSAGE 18 FEE A COM #001 H

Enclosed are the results of analyses for samples received by the laboratory on 02/19/25 14:43.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	02/19/2025	Sampling Date:	02/17/2025
Reported:	02/25/2025	Sampling Type:	Soil
Project Name:	OSAGE 18 FEE A COM #001 H	Sampling Condition:	Cool & Intact
Project Number:	03B1417261	Sample Received By:	Alyssa Parras
Project Location:	OXY - EDDY CO., NM		

Sample ID: CS01 1' (H250988-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/20/2025	ND	2.06	103	2.00	1.40	
Toluene*	<0.050	0.050	02/20/2025	ND	2.11	106	2.00	1.47	
Ethylbenzene*	<0.050	0.050	02/20/2025	ND	2.12	106	2.00	1.74	
Total Xylenes*	<0.150	0.150	02/20/2025	ND	6.46	108	6.00	1.88	
Total BTX	<0.300	0.300	02/20/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1330	16.0	02/20/2025	ND	432	108	400	3.64	

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	02/20/2025	ND	227	114	200	2.98	
DRO >C10-C28*	199	10.0	02/20/2025	ND	215	108	200	1.54	
EXT DRO >C28-C36	32.9	10.0	02/20/2025	ND					

Surrogate: 1-Chlorooctane 77.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.2 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/19/2025
Reported: 02/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - EDDY CO., NM

Sampling Date: 02/17/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CS01 6' (H250988-02)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/20/2025	ND	2.06	103	2.00	1.40		
Toluene*	<0.050	0.050	02/20/2025	ND	2.11	106	2.00	1.47		
Ethylbenzene*	<0.050	0.050	02/20/2025	ND	2.12	106	2.00	1.74		
Total Xylenes*	<0.150	0.150	02/20/2025	ND	6.46	108	6.00	1.88		
Total BTX	<0.300	0.300	02/20/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	02/20/2025	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/20/2025	ND	227	114	200	2.98	
DRO >C10-C28*	<10.0	10.0	02/20/2025	ND	215	108	200	1.54	
EXT DRO >C28-C36	<10.0	10.0	02/20/2025	ND					

Surrogate: 1-Chlorooctane 80.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/19/2025
Reported: 02/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - EDDY CO., NM

Sampling Date: 02/17/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CS01 7' (H250988-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/20/2025	ND	2.06	103	2.00	1.40		
Toluene*	<0.050	0.050	02/20/2025	ND	2.11	106	2.00	1.47		
Ethylbenzene*	<0.050	0.050	02/20/2025	ND	2.12	106	2.00	1.74		
Total Xylenes*	<0.150	0.150	02/20/2025	ND	6.46	108	6.00	1.88		
Total BTEx	<0.300	0.300	02/20/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	02/20/2025	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/20/2025	ND	227	114	200	2.98	
DRO >C10-C28*	<10.0	10.0	02/20/2025	ND	215	108	200	1.54	
EXT DRO >C28-C36	<10.0	10.0	02/20/2025	ND					

Surrogate: 1-Chlorooctane 78.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.2 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/19/2025
Reported: 02/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - EDDY CO., NM

Sampling Date: 02/17/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CS01 10' (H250988-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/20/2025	ND	2.06	103	2.00	1.40		
Toluene*	<0.050	0.050	02/20/2025	ND	2.11	106	2.00	1.47		
Ethylbenzene*	<0.050	0.050	02/20/2025	ND	2.12	106	2.00	1.74		
Total Xylenes*	<0.150	0.150	02/20/2025	ND	6.46	108	6.00	1.88		
Total BTEx	<0.300	0.300	02/20/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	416	16.0	02/20/2025	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/20/2025	ND	227	114	200	2.98	
DRO >C10-C28*	<10.0	10.0	02/20/2025	ND	215	108	200	1.54	
EXT DRO >C28-C36	<10.0	10.0	02/20/2025	ND					

Surrogate: 1-Chlorooctane 84.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/19/2025
Reported: 02/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - EDDY CO., NM

Sampling Date: 02/17/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CS02 3' (H250988-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/20/2025	ND	2.06	103	2.00	1.40		
Toluene*	<0.050	0.050	02/20/2025	ND	2.11	106	2.00	1.47		
Ethylbenzene*	<0.050	0.050	02/20/2025	ND	2.12	106	2.00	1.74		
Total Xylenes*	<0.150	0.150	02/20/2025	ND	6.46	108	6.00	1.88		
Total BTEx	<0.300	0.300	02/20/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	02/20/2025	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/20/2025	ND	227	114	200	2.98	
DRO >C10-C28*	<10.0	10.0	02/20/2025	ND	215	108	200	1.54	
EXT DRO >C28-C36	<10.0	10.0	02/20/2025	ND					

Surrogate: 1-Chlorooctane 88.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/19/2025
Reported: 02/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - EDDY CO., NM

Sampling Date: 02/17/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CS02 11' (H250988-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/20/2025	ND	2.06	103	2.00	1.40		
Toluene*	<0.050	0.050	02/20/2025	ND	2.11	106	2.00	1.47		
Ethylbenzene*	<0.050	0.050	02/20/2025	ND	2.12	106	2.00	1.74		
Total Xylenes*	<0.150	0.150	02/20/2025	ND	6.46	108	6.00	1.88		
Total BTEX	<0.300	0.300	02/20/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	02/20/2025	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/20/2025	ND	227	114	200	2.98	
DRO >C10-C28*	22.4	10.0	02/20/2025	ND	215	108	200	1.54	
EXT DRO >C28-C36	<10.0	10.0	02/20/2025	ND					

Surrogate: 1-Chlorooctane 97.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/19/2025
Reported: 02/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - EDDY CO., NM

Sampling Date: 02/18/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CS03 3' (H250988-07)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/22/2025	ND	1.95	97.7	2.00	1.51		
Toluene*	<0.050	0.050	02/22/2025	ND	2.11	105	2.00	0.218		
Ethylbenzene*	<0.050	0.050	02/22/2025	ND	2.13	107	2.00	0.277		
Total Xylenes*	<0.150	0.150	02/22/2025	ND	6.49	108	6.00	0.559		
Total BTEx	<0.300	0.300	02/22/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/20/2025	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/20/2025	ND	227	114	200	2.98	
DRO >C10-C28*	<10.0	10.0	02/20/2025	ND	215	108	200	1.54	
EXT DRO >C28-C36	<10.0	10.0	02/20/2025	ND					

Surrogate: 1-Chlorooctane 88.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/19/2025
Reported: 02/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - EDDY CO., NM

Sampling Date: 02/18/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CS03 5' (H250988-08)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/22/2025	ND	1.95	97.7	2.00	1.51		
Toluene*	<0.050	0.050	02/22/2025	ND	2.11	105	2.00	0.218		
Ethylbenzene*	<0.050	0.050	02/22/2025	ND	2.13	107	2.00	0.277		
Total Xylenes*	<0.150	0.150	02/22/2025	ND	6.49	108	6.00	0.559		
Total BTEX	<0.300	0.300	02/22/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	02/20/2025	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/20/2025	ND	227	114	200	2.98	
DRO >C10-C28*	<10.0	10.0	02/20/2025	ND	215	108	200	1.54	
EXT DRO >C28-C36	<10.0	10.0	02/20/2025	ND					

Surrogate: 1-Chlorooctane 86.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.8 % 49.1-148

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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/19/2025
Reported: 02/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - EDDY CO., NM

Sampling Date: 02/18/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CS03 7' (H250988-09)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/22/2025	ND	1.95	97.7	2.00	1.51		
Toluene*	<0.050	0.050	02/22/2025	ND	2.11	105	2.00	0.218		
Ethylbenzene*	<0.050	0.050	02/22/2025	ND	2.13	107	2.00	0.277		
Total Xylenes*	<0.150	0.150	02/22/2025	ND	6.49	108	6.00	0.559		
Total BTEx	<0.300	0.300	02/22/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	02/20/2025	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/20/2025	ND	227	114	200	2.98	
DRO >C10-C28*	<10.0	10.0	02/20/2025	ND	215	108	200	1.54	
EXT DRO >C28-C36	<10.0	10.0	02/20/2025	ND					

Surrogate: 1-Chlorooctane 92.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/19/2025
Reported: 02/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - EDDY CO., NM

Sampling Date: 02/18/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CS03 11' (H250988-10)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/22/2025	ND	1.95	97.7	2.00	1.51		
Toluene*	<0.050	0.050	02/22/2025	ND	2.11	105	2.00	0.218		
Ethylbenzene*	<0.050	0.050	02/22/2025	ND	2.13	107	2.00	0.277		
Total Xylenes*	<0.150	0.150	02/22/2025	ND	6.49	108	6.00	0.559		
Total BTEx	<0.300	0.300	02/22/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	02/20/2025	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/20/2025	ND	227	114	200	2.98	
DRO >C10-C28*	<10.0	10.0	02/20/2025	ND	215	108	200	1.54	
EXT DRO >C28-C36	<10.0	10.0	02/20/2025	ND					

Surrogate: 1-Chlorooctane 93.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/19/2025
Reported: 02/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - EDDY CO., NM

Sampling Date: 02/18/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CS04 3' (H250988-11)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/22/2025	ND	1.95	97.7	2.00	1.51		
Toluene*	<0.050	0.050	02/22/2025	ND	2.11	105	2.00	0.218		
Ethylbenzene*	<0.050	0.050	02/22/2025	ND	2.13	107	2.00	0.277		
Total Xylenes*	<0.150	0.150	02/22/2025	ND	6.49	108	6.00	0.559		
Total BTEX	<0.300	0.300	02/22/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3280	16.0	02/20/2025	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/20/2025	ND	227	114	200	2.98	
DRO >C10-C28*	<10.0	10.0	02/20/2025	ND	215	108	200	1.54	
EXT DRO >C28-C36	<10.0	10.0	02/20/2025	ND					

Surrogate: 1-Chlorooctane 94.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/19/2025
Reported: 02/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - EDDY CO., NM

Sampling Date: 02/18/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CS04 5' (H250988-12)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/22/2025	ND	1.95	97.7	2.00	1.51		
Toluene*	<0.050	0.050	02/22/2025	ND	2.11	105	2.00	0.218		
Ethylbenzene*	<0.050	0.050	02/22/2025	ND	2.13	107	2.00	0.277		
Total Xylenes*	<0.150	0.150	02/22/2025	ND	6.49	108	6.00	0.559		
Total BTEx	<0.300	0.300	02/22/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	02/20/2025	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/20/2025	ND	227	114	200	2.98	
DRO >C10-C28*	<10.0	10.0	02/20/2025	ND	215	108	200	1.54	
EXT DRO >C28-C36	<10.0	10.0	02/20/2025	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/19/2025
Reported: 02/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - EDDY CO., NM

Sampling Date: 02/18/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CS04 7' (H250988-13)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/22/2025	ND	1.95	97.7	2.00	1.51		
Toluene*	<0.050	0.050	02/22/2025	ND	2.11	105	2.00	0.218		
Ethylbenzene*	<0.050	0.050	02/22/2025	ND	2.13	107	2.00	0.277		
Total Xylenes*	<0.150	0.150	02/22/2025	ND	6.49	108	6.00	0.559		
Total BTEX	<0.300	0.300	02/22/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	02/20/2025	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/20/2025	ND	227	114	200	2.98	
DRO >C10-C28*	<10.0	10.0	02/20/2025	ND	215	108	200	1.54	
EXT DRO >C28-C36	<10.0	10.0	02/20/2025	ND					

Surrogate: 1-Chlorooctane 90.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/19/2025
Reported: 02/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - EDDY CO., NM

Sampling Date: 02/18/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CS05 3' (H250988-14)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/22/2025	ND	1.95	97.7	2.00	1.51		
Toluene*	<0.050	0.050	02/22/2025	ND	2.11	105	2.00	0.218		
Ethylbenzene*	<0.050	0.050	02/22/2025	ND	2.13	107	2.00	0.277		
Total Xylenes*	<0.150	0.150	02/22/2025	ND	6.49	108	6.00	0.559		
Total BTEx	<0.300	0.300	02/22/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	736	16.0	02/20/2025	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/20/2025	ND	227	114	200	2.98	
DRO >C10-C28*	<10.0	10.0	02/20/2025	ND	215	108	200	1.54	
EXT DRO >C28-C36	<10.0	10.0	02/20/2025	ND					

Surrogate: 1-Chlorooctane 96.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/19/2025
Reported: 02/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - EDDY CO., NM

Sampling Date: 02/18/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CS05 5' (H250988-15)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/22/2025	ND	1.95	97.7	2.00	1.51		
Toluene*	<0.050	0.050	02/22/2025	ND	2.11	105	2.00	0.218		
Ethylbenzene*	<0.050	0.050	02/22/2025	ND	2.13	107	2.00	0.277		
Total Xylenes*	<0.150	0.150	02/22/2025	ND	6.49	108	6.00	0.559		
Total BTX	<0.300	0.300	02/22/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	02/20/2025	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/20/2025	ND	227	114	200	2.98	
DRO >C10-C28*	<10.0	10.0	02/20/2025	ND	215	108	200	1.54	
EXT DRO >C28-C36	<10.0	10.0	02/20/2025	ND					

Surrogate: 1-Chlorooctane 97.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/19/2025
Reported: 02/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - EDDY CO., NM

Sampling Date: 02/18/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CS05 9' (H250988-16)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/22/2025	ND	1.95	97.7	2.00	1.51		
Toluene*	<0.050	0.050	02/22/2025	ND	2.11	105	2.00	0.218		
Ethylbenzene*	<0.050	0.050	02/22/2025	ND	2.13	107	2.00	0.277		
Total Xylenes*	<0.150	0.150	02/22/2025	ND	6.49	108	6.00	0.559		
Total BTEX	<0.300	0.300	02/22/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	02/20/2025	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/20/2025	ND	227	114	200	2.98	
DRO >C10-C28*	<10.0	10.0	02/20/2025	ND	215	108	200	1.54	
EXT DRO >C28-C36	<10.0	10.0	02/20/2025	ND					

Surrogate: 1-Chlorooctane 95.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/19/2025
Reported: 02/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - EDDY CO., NM

Sampling Date: 02/18/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CS06 3' (H250988-17)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/22/2025	ND	1.95	97.7	2.00	1.51		
Toluene*	<0.050	0.050	02/22/2025	ND	2.11	105	2.00	0.218		
Ethylbenzene*	<0.050	0.050	02/22/2025	ND	2.13	107	2.00	0.277		
Total Xylenes*	<0.150	0.150	02/22/2025	ND	6.49	108	6.00	0.559		
Total BTEx	<0.300	0.300	02/22/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1140	16.0	02/20/2025	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/20/2025	ND	227	114	200	2.98	
DRO >C10-C28*	<10.0	10.0	02/20/2025	ND	215	108	200	1.54	
EXT DRO >C28-C36	<10.0	10.0	02/20/2025	ND					

Surrogate: 1-Chlorooctane 86.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/19/2025
Reported: 02/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - EDDY CO., NM

Sampling Date: 02/18/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CS06 7' (H250988-18)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/22/2025	ND	1.95	97.7	2.00	1.51		
Toluene*	<0.050	0.050	02/22/2025	ND	2.11	105	2.00	0.218		
Ethylbenzene*	<0.050	0.050	02/22/2025	ND	2.13	107	2.00	0.277		
Total Xylenes*	<0.150	0.150	02/22/2025	ND	6.49	108	6.00	0.559		
Total BTEx	<0.300	0.300	02/22/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	02/20/2025	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/20/2025	ND	227	114	200	2.98	
DRO >C10-C28*	<10.0	10.0	02/20/2025	ND	215	108	200	1.54	
EXT DRO >C28-C36	<10.0	10.0	02/20/2025	ND					

Surrogate: 1-Chlorooctane 81.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/19/2025
Reported: 02/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - EDDY CO., NM

Sampling Date: 02/18/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CS06 9' (H250988-19)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/22/2025	ND	1.95	97.7	2.00	1.51		
Toluene*	<0.050	0.050	02/22/2025	ND	2.11	105	2.00	0.218		
Ethylbenzene*	<0.050	0.050	02/22/2025	ND	2.13	107	2.00	0.277		
Total Xylenes*	<0.150	0.150	02/22/2025	ND	6.49	108	6.00	0.559		
Total BTEX	<0.300	0.300	02/22/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	592	16.0	02/20/2025	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/20/2025	ND	227	114	200	2.98	
DRO >C10-C28*	<10.0	10.0	02/20/2025	ND	215	108	200	1.54	
EXT DRO >C28-C36	<10.0	10.0	02/20/2025	ND					

Surrogate: 1-Chlorooctane 82.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/19/2025
Reported: 02/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - EDDY CO., NM

Sampling Date: 02/18/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CS06 11' (H250988-20)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/22/2025	ND	1.95	97.7	2.00	1.51		
Toluene*	<0.050	0.050	02/22/2025	ND	2.11	105	2.00	0.218		
Ethylbenzene*	<0.050	0.050	02/22/2025	ND	2.13	107	2.00	0.277		
Total Xylenes*	<0.150	0.150	02/22/2025	ND	6.49	108	6.00	0.559		
Total BTEX	<0.300	0.300	02/22/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	02/20/2025	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/20/2025	ND	215	108	200	7.62	
DRO >C10-C28*	<10.0	10.0	02/20/2025	ND	211	106	200	7.41	
EXT DRO >C28-C36	<10.0	10.0	02/20/2025	ND					

Surrogate: 1-Chlorooctane 96.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/19/2025
Reported: 02/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - EDDY CO., NM

Sampling Date: 02/18/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CS07 3' (H250988-21)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/22/2025	ND	1.95	97.7	2.00	1.51		
Toluene*	<0.050	0.050	02/22/2025	ND	2.11	105	2.00	0.218		
Ethylbenzene*	<0.050	0.050	02/22/2025	ND	2.13	107	2.00	0.277		
Total Xylenes*	<0.150	0.150	02/22/2025	ND	6.49	108	6.00	0.559		
Total BTX	<0.300	0.300	02/22/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	02/20/2025	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/20/2025	ND	215	108	200	7.62	
DRO >C10-C28*	<10.0	10.0	02/20/2025	ND	211	106	200	7.41	
EXT DRO >C28-C36	<10.0	10.0	02/20/2025	ND					

Surrogate: 1-Chlorooctane 85.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.0 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/19/2025
Reported: 02/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - EDDY CO., NM

Sampling Date: 02/18/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CS07 7' (H250988-22)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/22/2025	ND	1.95	97.7	2.00	1.51		
Toluene*	<0.050	0.050	02/22/2025	ND	2.11	105	2.00	0.218		
Ethylbenzene*	<0.050	0.050	02/22/2025	ND	2.13	107	2.00	0.277		
Total Xylenes*	<0.150	0.150	02/22/2025	ND	6.49	108	6.00	0.559		
Total BTEx	<0.300	0.300	02/22/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	02/20/2025	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	02/20/2025	ND	215	108	200	7.62	
DRO >C10-C28*	<10.0	10.0	02/20/2025	ND	211	106	200	7.41	
EXT DRO >C28-C36	<10.0	10.0	02/20/2025	ND					

Surrogate: 1-Chlorooctane 81.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/19/2025
Reported: 02/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - EDDY CO., NM

Sampling Date: 02/18/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CS07 9' (H250988-23)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2025	ND	1.95	97.7	2.00	1.51	
Toluene*	<0.050	0.050	02/22/2025	ND	2.11	105	2.00	0.218	
Ethylbenzene*	<0.050	0.050	02/22/2025	ND	2.13	107	2.00	0.277	
Total Xylenes*	<0.150	0.150	02/22/2025	ND	6.49	108	6.00	0.559	
Total BTEX	<0.300	0.300	02/22/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	02/20/2025	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	02/20/2025	ND	215	108	200	7.62	
DRO >C10-C28*	<10.0	10.0	02/20/2025	ND	211	106	200	7.41	
EXT DRO >C28-C36	<10.0	10.0	02/20/2025	ND					

Surrogate: 1-Chlorooctane 86.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/19/2025
Reported: 02/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - EDDY CO., NM

Sampling Date: 02/18/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CS07 11' (H250988-24)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/22/2025	ND	1.95	97.7	2.00	1.51		
Toluene*	<0.050	0.050	02/22/2025	ND	2.11	105	2.00	0.218		
Ethylbenzene*	<0.050	0.050	02/22/2025	ND	2.13	107	2.00	0.277		
Total Xylenes*	<0.150	0.150	02/22/2025	ND	6.49	108	6.00	0.559		
Total BTEX	<0.300	0.300	02/22/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	02/20/2025	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	02/20/2025	ND	215	108	200	7.62	
DRO >C10-C28*	<10.0	10.0	02/20/2025	ND	211	106	200	7.41	
EXT DRO >C28-C36	<10.0	10.0	02/20/2025	ND					

Surrogate: 1-Chlorooctane 77.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: <u>Cardinal Laboratories</u>		P.O. #:	
Project Manager: <u>Samuel MacKenzie</u>		Company: <u>DX, USA, Inc.</u>	
Address: <u>601 N. Woodward St., Ste. 400</u>		Attn: <u>Wade Dinkley</u>	
City: <u>Midland</u>		Address:	
Phone #: <u>763-357-3345</u>		City:	
Project #: <u>0381417261</u>		State:	
Project Name: <u>0399 18 Fee A (COW)</u>		Zip:	
Project Location: <u>Eddy County, NM</u>		Phone #:	
Sample Name: <u>NaOH Ductor/Nickel (WYK)</u>		Fax #:	

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	BTEx	TPH	Chloride
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
H250988	Depth									2/17/05	1310	X	X	X
	1'	C	1			X				2/17/05	1400	X	X	X
	6'	C	1			X				2/17/05	1440	X	X	X
	7'	C	1			X				2/17/05	1440	X	X	X
	16'	C	1			X				2/17/05	1435	X	X	X
	3'	C	1			X				2/17/05	1340	X	X	X
	11'	C	1			X				2/17/05	1600	X	X	X
	2'	C	1			X				2/18/05	0855	X	X	X
	5'	C	1			X				2/18/05	0900	X	X	X
	7'	C	1			X				2/18/05	0910	X	X	X
	11'	C	1			X				2/18/05	0935	X	X	X

FOR LAB USE ONLY	DATE	TIME	SAMPLING

Delivered By: (Circle One)	Observed Temp. °C	Sample Condition	CHECKED BY: (Initials)
Sampler - UPS - Bus - Other:	Corrected Temp. °C	Cool Intact	
		Yes No	

Turnaround Time:	Standard	Bacteria (only)	Sample Condition
Thermometer ID #140	Rush	Cool Intact	Observed Temp. °C
Correction Factor 0°C to 3°C		Yes No	Corrected Temp. °C



101 East Marland, Hobbs, NM 88240

~~(575) 393-2320 FAX (575) 393-2470~~

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



101 East Marland, Hobbs, NM 88240

~~(575) 393-2026 FAX (575) 393-2476~~

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC					
Project Manager: Sandra Hall Muckenzie					
Address: 601 N Marientfeld Street, Suite 400					
City: Midland		State: TX		Zip: 79701	
Phone #: 763-357-3845		Fax #:			
Project #: 03B14Y2H		Project Owner:			
Project Name: Edge 18 Fee A Cor Booth		City:			
Project Location: Eddy County, NM		State: Zip:			
Sample Name: Mud Major Project Analysis (4/18/14)		Fax #:			
FOR LAB USE ONLY					
Lab I.D.		Sample I.D.		Depth (feet)	
(G)RAB OR (C)OMP.		# CONTAINERS	GROUNDWATER	WASTEWATER	SAMPLEING
SOIL		OIL	SLUDGE	OTHER :	PRESERV.
ACID/BASE:		ICE / COOL	OTHER :	DATE	TIME
X		X	X	X	X
2/18/25 1334		X	X	X	X
2/18/25 1346		X	X	X	X
2/18/25 1353		X	X	X	X
2/18/25 1410		X	X	X	X
REMARKS: BTEx B021 TPH B015 Chloride 4500					
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Relinquished By: [Signature]		Date: 8-19-85	Received By: [Signature]		Verbal Result: Yes No Add'l Phone #:
Time: 1443		All Results are emailed. Please provide Email address:			
Date: 1443		[Signature] Smokey@Ensolum.com			
Relinquished By:		Received By:		REMARKS:	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp.: °C 04 ~ Corrected Temp.: °C 0.7 ~	Sample Condition Cool Intact Yes X No X	CHECKED BY: (Initials) BP	Turnaround Time: 8-19-85 Rush Standard Add'l Phone #:
Bacteria (only) Sample Condition Cool Intact Yes X No X	Observed Temp.: °C Corrected Temp.: °C				



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

March 25, 2025

SAMANTHA MACKENZIE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: OSAGE 18 FEE A COM #001 H

Enclosed are the results of analyses for samples received by the laboratory on 03/19/25 17:22.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 01 10 (H251634-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/21/2025	ND	2.18	109	2.00	0.881	
Toluene*	<0.050	0.050	03/21/2025	ND	2.22	111	2.00	0.800	
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.14	107	2.00	0.567	
Total Xylenes*	<0.150	0.150	03/21/2025	ND	6.29	105	6.00	0.430	
Total BTX	<0.300	0.300	03/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	784	16.0	03/21/2025	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2025	ND	218	109	200	0.132	
DRO >C10-C28*	146	10.0	03/21/2025	ND	208	104	200	0.287	
EXT DRO >C28-C36	19.2	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 85.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 85.7 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 02 10 (H251634-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	2.18	109	2.00	0.881		
Toluene*	<0.050	0.050	03/21/2025	ND	2.22	111	2.00	0.800		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.14	107	2.00	0.567		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	6.29	105	6.00	0.430		
Total BTEX	<0.300	0.300	03/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1170	16.0	03/21/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2025	ND	218	109	200	0.132	
DRO >C10-C28*	251	10.0	03/21/2025	ND	208	104	200	0.287	
EXT DRO >C28-C36	42.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 99.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 101 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 03 10 (H251634-03)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/21/2025	ND	2.18	109	2.00	0.881	
Toluene*	<0.050	0.050	03/21/2025	ND	2.22	111	2.00	0.800	
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.14	107	2.00	0.567	
Total Xylenes*	<0.150	0.150	03/21/2025	ND	6.29	105	6.00	0.430	
Total BTEX	<0.300	0.300	03/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	640	16.0	03/21/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2025	ND	218	109	200	0.132	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	208	104	200	0.287	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 98.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 96.5 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 04 10 (H251634-04)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/21/2025	ND	2.18	109	2.00	0.881	
Toluene*	<0.050	0.050	03/21/2025	ND	2.22	111	2.00	0.800	
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.14	107	2.00	0.567	
Total Xylenes*	<0.150	0.150	03/21/2025	ND	6.29	105	6.00	0.430	
Total BTEX	<0.300	0.300	03/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	688	16.0	03/21/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2025	ND	218	109	200	0.132	
DRO >C10-C28*	17.6	10.0	03/21/2025	ND	208	104	200	0.287	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 97.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 95.8 % 40.6-153

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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 05 10 (H251634-05)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/21/2025	ND	2.18	109	2.00	0.881	
Toluene*	<0.050	0.050	03/21/2025	ND	2.22	111	2.00	0.800	
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.14	107	2.00	0.567	
Total Xylenes*	<0.150	0.150	03/21/2025	ND	6.29	105	6.00	0.430	
Total BTEX	<0.300	0.300	03/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	03/21/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2025	ND	218	109	200	0.132	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	208	104	200	0.287	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 87.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 83.8 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 06 10 (H251634-06)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/21/2025	ND	2.18	109	2.00	0.881	
Toluene*	<0.050	0.050	03/21/2025	ND	2.22	111	2.00	0.800	
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.14	107	2.00	0.567	
Total Xylenes*	<0.150	0.150	03/21/2025	ND	6.29	105	6.00	0.430	
Total BTX	<0.300	0.300	03/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	03/21/2025	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2025	ND	218	109	200	0.132	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	208	104	200	0.287	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 91.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 88.1 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 07 8 (H251634-07)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	2.18	109	2.00	0.881		
Toluene*	<0.050	0.050	03/21/2025	ND	2.22	111	2.00	0.800		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.14	107	2.00	0.567		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	6.29	105	6.00	0.430		
Total BTEX	<0.300	0.300	03/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	03/21/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2025	ND	218	109	200	0.132	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	208	104	200	0.287	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 98.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 95.8 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 08 8 (H251634-08)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	2.18	109	2.00	0.881		
Toluene*	<0.050	0.050	03/21/2025	ND	2.22	111	2.00	0.800		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.14	107	2.00	0.567		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	6.29	105	6.00	0.430		
Total BTX	<0.300	0.300	03/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	03/21/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2025	ND	218	109	200	0.132	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	208	104	200	0.287	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 95.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 90.6 % 40.6-153

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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 09 8 (H251634-09)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	2.18	109	2.00	0.881		
Toluene*	<0.050	0.050	03/21/2025	ND	2.22	111	2.00	0.800		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.14	107	2.00	0.567		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	6.29	105	6.00	0.430		
Total BTX	<0.300	0.300	03/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	03/21/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2025	ND	218	109	200	0.132	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	208	104	200	0.287	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 94.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 90.0 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 10 8 (H251634-10)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	2.18	109	2.00	0.881		
Toluene*	<0.050	0.050	03/21/2025	ND	2.22	111	2.00	0.800		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.14	107	2.00	0.567		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	6.29	105	6.00	0.430		
Total BTEX	<0.300	0.300	03/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	03/21/2025	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2025	ND	218	109	200	0.132	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	208	104	200	0.287	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 96.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 92.9 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 11 8 (H251634-11)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	2.18	109	2.00	0.881		
Toluene*	<0.050	0.050	03/21/2025	ND	2.22	111	2.00	0.800		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.14	107	2.00	0.567		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	6.29	105	6.00	0.430		
Total BTEX	<0.300	0.300	03/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	03/21/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2025	ND	218	109	200	0.132	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	208	104	200	0.287	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 96.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 93.5 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 12 8 (H251634-12)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	2.18	109	2.00	0.881		
Toluene*	<0.050	0.050	03/21/2025	ND	2.22	111	2.00	0.800		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.14	107	2.00	0.567		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	6.29	105	6.00	0.430		
Total BTX	<0.300	0.300	03/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	03/21/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2025	ND	218	109	200	0.132	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	208	104	200	0.287	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 91.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 88.2 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 13 8 (H251634-13)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	2.18	109	2.00	0.881		
Toluene*	<0.050	0.050	03/21/2025	ND	2.22	111	2.00	0.800		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.14	107	2.00	0.567		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	6.29	105	6.00	0.430		
Total BTX	<0.300	0.300	03/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	608	16.0	03/21/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2025	ND	218	109	200	0.132	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	208	104	200	0.287	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 87.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 84.9 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 14 8 (H251634-14)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	1.91	95.6	2.00	1.59		
Toluene*	<0.050	0.050	03/21/2025	ND	1.99	99.3	2.00	0.234		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.00	100	2.00	0.723		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	6.12	102	6.00	0.115		
Total BTEX	<0.300	0.300	03/21/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/21/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2025	ND	218	109	200	0.132	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	208	104	200	0.287	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 97.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 96.3 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 15 8 (H251634-15)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	1.91	95.6	2.00	1.59		
Toluene*	<0.050	0.050	03/21/2025	ND	1.99	99.3	2.00	0.234		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.00	100	2.00	0.723		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	6.12	102	6.00	0.115		
Total BTEX	<0.300	0.300	03/21/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	03/21/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/20/2025	ND	202	101	200	1.07	
DRO >C10-C28*	<10.0	10.0	03/20/2025	ND	190	95.2	200	4.00	
EXT DRO >C28-C36	<10.0	10.0	03/20/2025	ND					

Surrogate: 1-Chlorooctane 110 % 44.4-145

Surrogate: 1-Chlorooctadecane 111 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 16 8 (H251634-16)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	1.91	95.6	2.00	1.59		
Toluene*	<0.050	0.050	03/21/2025	ND	1.99	99.3	2.00	0.234		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.00	100	2.00	0.723		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	6.12	102	6.00	0.115		
Total BTEx	<0.300	0.300	03/21/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	03/21/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/20/2025	ND	202	101	200	1.07	
DRO >C10-C28*	<10.0	10.0	03/20/2025	ND	190	95.2	200	4.00	
EXT DRO >C28-C36	<10.0	10.0	03/20/2025	ND					

Surrogate: 1-Chlorooctane 112 % 44.4-145

Surrogate: 1-Chlorooctadecane 110 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 17 8 (H251634-17)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	1.91	95.6	2.00	1.59		
Toluene*	<0.050	0.050	03/21/2025	ND	1.99	99.3	2.00	0.234		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.00	100	2.00	0.723		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	6.12	102	6.00	0.115		
Total BTX	<0.300	0.300	03/21/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	03/21/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/20/2025	ND	202	101	200	1.07	
DRO >C10-C28*	<10.0	10.0	03/20/2025	ND	190	95.2	200	4.00	
EXT DRO >C28-C36	<10.0	10.0	03/20/2025	ND					

Surrogate: 1-Chlorooctane 111 % 44.4-145

Surrogate: 1-Chlorooctadecane 109 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 18 8 (H251634-18)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	1.91	95.6	2.00	1.59		
Toluene*	<0.050	0.050	03/21/2025	ND	1.99	99.3	2.00	0.234		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.00	100	2.00	0.723		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	6.12	102	6.00	0.115		
Total BTEx	<0.300	0.300	03/21/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	03/21/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/20/2025	ND	202	101	200	1.07	
DRO >C10-C28*	<10.0	10.0	03/20/2025	ND	190	95.2	200	4.00	
EXT DRO >C28-C36	<10.0	10.0	03/20/2025	ND					

Surrogate: 1-Chlorooctane 113 % 44.4-145

Surrogate: 1-Chlorooctadecane 112 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 19 8 (H251634-19)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	1.91	95.6	2.00	1.59		
Toluene*	<0.050	0.050	03/21/2025	ND	1.99	99.3	2.00	0.234		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.00	100	2.00	0.723		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	6.12	102	6.00	0.115		
Total BTEX	<0.300	0.300	03/21/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	03/21/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/20/2025	ND	202	101	200	1.07	
DRO >C10-C28*	<10.0	10.0	03/20/2025	ND	190	95.2	200	4.00	
EXT DRO >C28-C36	<10.0	10.0	03/20/2025	ND					

Surrogate: 1-Chlorooctane 115 % 44.4-145

Surrogate: 1-Chlorooctadecane 113 % 40.6-153

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 20 8 (H251634-20)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	1.91	95.6	2.00	1.59		
Toluene*	<0.050	0.050	03/21/2025	ND	1.99	99.3	2.00	0.234		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.00	100	2.00	0.723		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	6.12	102	6.00	0.115		
Total BTEX	<0.300	0.300	03/21/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	03/21/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/20/2025	ND	202	101	200	1.07	
DRO >C10-C28*	<10.0	10.0	03/20/2025	ND	190	95.2	200	4.00	
EXT DRO >C28-C36	<10.0	10.0	03/20/2025	ND					

Surrogate: 1-Chlorooctane 113 % 44.4-145

Surrogate: 1-Chlorooctadecane 112 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 21 10 (H251634-21)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	1.91	95.6	2.00	1.59		
Toluene*	<0.050	0.050	03/21/2025	ND	1.99	99.3	2.00	0.234		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.00	100	2.00	0.723		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	6.12	102	6.00	0.115		
Total BTEx	<0.300	0.300	03/21/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	03/21/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/20/2025	ND	202	101	200	1.07	
DRO >C10-C28*	<10.0	10.0	03/20/2025	ND	190	95.2	200	4.00	
EXT DRO >C28-C36	<10.0	10.0	03/20/2025	ND					

Surrogate: 1-Chlorooctane 111 % 44.4-145

Surrogate: 1-Chlorooctadecane 109 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 22 10 (H251634-22)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	1.91	95.6	2.00	1.59		
Toluene*	<0.050	0.050	03/21/2025	ND	1.99	99.3	2.00	0.234		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.00	100	2.00	0.723		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	6.12	102	6.00	0.115		
Total BTEX	<0.300	0.300	03/21/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3520	16.0	03/21/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/20/2025	ND	202	101	200	1.07	
DRO >C10-C28*	94.1	10.0	03/20/2025	ND	190	95.2	200	4.00	
EXT DRO >C28-C36	22.9	10.0	03/20/2025	ND					

Surrogate: 1-Chlorooctane 114 % 44.4-145

Surrogate: 1-Chlorooctadecane 112 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 23 10 (H251634-23)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	1.91	95.6	2.00	1.59		
Toluene*	<0.050	0.050	03/21/2025	ND	1.99	99.3	2.00	0.234		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.00	100	2.00	0.723		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	6.12	102	6.00	0.115		
Total BTEX	<0.300	0.300	03/21/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2400	16.0	03/21/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/20/2025	ND	202	101	200	1.07	
DRO >C10-C28*	66.4	10.0	03/20/2025	ND	190	95.2	200	4.00	
EXT DRO >C28-C36	10.1	10.0	03/20/2025	ND					

Surrogate: 1-Chlorooctane 110 % 44.4-145

Surrogate: 1-Chlorooctadecane 110 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 24 10 (H251634-24)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	1.91	95.6	2.00	1.59		
Toluene*	<0.050	0.050	03/21/2025	ND	1.99	99.3	2.00	0.234		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.00	100	2.00	0.723		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	6.12	102	6.00	0.115		
Total BTEX	<0.300	0.300	03/21/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	864	16.0	03/21/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/20/2025	ND	202	101	200	1.07	
DRO >C10-C28*	23.5	10.0	03/20/2025	ND	190	95.2	200	4.00	
EXT DRO >C28-C36	<10.0	10.0	03/20/2025	ND					

Surrogate: 1-Chlorooctane 116 % 44.4-145

Surrogate: 1-Chlorooctadecane 115 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 25 10 (H251634-25)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	1.91	95.6	2.00	1.59		
Toluene*	<0.050	0.050	03/21/2025	ND	1.99	99.3	2.00	0.234		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.00	100	2.00	0.723		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	6.12	102	6.00	0.115		
Total BTEX	<0.300	0.300	03/21/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	03/21/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/20/2025	ND	202	101	200	1.07	
DRO >C10-C28*	<10.0	10.0	03/20/2025	ND	190	95.2	200	4.00	
EXT DRO >C28-C36	<10.0	10.0	03/20/2025	ND					

Surrogate: 1-Chlorooctane 87.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 84.9 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 26 10 (H251634-26)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	1.91	95.6	2.00	1.59		
Toluene*	<0.050	0.050	03/21/2025	ND	1.99	99.3	2.00	0.234		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.00	100	2.00	0.723		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	6.12	102	6.00	0.115		
Total BTEx	<0.300	0.300	03/21/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	03/21/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/20/2025	ND	202	101	200	1.07	
DRO >C10-C28*	<10.0	10.0	03/20/2025	ND	190	95.2	200	4.00	
EXT DRO >C28-C36	<10.0	10.0	03/20/2025	ND					

Surrogate: 1-Chlorooctane 103 % 44.4-145

Surrogate: 1-Chlorooctadecane 104 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 27 10 (H251634-27)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	1.91	95.6	2.00	1.59		
Toluene*	<0.050	0.050	03/21/2025	ND	1.99	99.3	2.00	0.234		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.00	100	2.00	0.723		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	6.12	102	6.00	0.115		
Total BTEX	<0.300	0.300	03/21/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	03/21/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/20/2025	ND	202	101	200	1.07	
DRO >C10-C28*	<10.0	10.0	03/20/2025	ND	190	95.2	200	4.00	
EXT DRO >C28-C36	<10.0	10.0	03/20/2025	ND					

Surrogate: 1-Chlorooctane 110 % 44.4-145

Surrogate: 1-Chlorooctadecane 114 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 28 10 (H251634-28)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	1.91	95.6	2.00	1.59		
Toluene*	<0.050	0.050	03/21/2025	ND	1.99	99.3	2.00	0.234		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.00	100	2.00	0.723		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	6.12	102	6.00	0.115		
Total BTEx	<0.300	0.300	03/21/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	03/21/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/20/2025	ND	202	101	200	1.07	
DRO >C10-C28*	<10.0	10.0	03/20/2025	ND	190	95.2	200	4.00	
EXT DRO >C28-C36	<10.0	10.0	03/20/2025	ND					

Surrogate: 1-Chlorooctane 106 % 44.4-145

Surrogate: 1-Chlorooctadecane 104 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 29 10 (H251634-29)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	1.91	95.6	2.00	1.59		
Toluene*	<0.050	0.050	03/21/2025	ND	1.99	99.3	2.00	0.234		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.00	100	2.00	0.723		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	6.12	102	6.00	0.115		
Total BTEX	<0.300	0.300	03/21/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	512	16.0	03/21/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/20/2025	ND	202	101	200	1.07	
DRO >C10-C28*	<10.0	10.0	03/20/2025	ND	190	95.2	200	4.00	
EXT DRO >C28-C36	<10.0	10.0	03/20/2025	ND					

Surrogate: 1-Chlorooctane 102 % 44.4-145

Surrogate: 1-Chlorooctadecane 100 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 30 10 (H251634-30)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	1.91	95.6	2.00	1.59		
Toluene*	<0.050	0.050	03/21/2025	ND	1.99	99.3	2.00	0.234		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.00	100	2.00	0.723		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	6.12	102	6.00	0.115		
Total BTEX	<0.300	0.300	03/21/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	03/21/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/20/2025	ND	202	101	200	1.07	
DRO >C10-C28*	<10.0	10.0	03/20/2025	ND	190	95.2	200	4.00	
EXT DRO >C28-C36	<10.0	10.0	03/20/2025	ND					

Surrogate: 1-Chlorooctane 101 % 44.4-145

Surrogate: 1-Chlorooctadecane 97.8 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 31 10 (H251634-31)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	1.91	95.6	2.00	1.59		
Toluene*	<0.050	0.050	03/21/2025	ND	1.99	99.3	2.00	0.234		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.00	100	2.00	0.723		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	6.12	102	6.00	0.115		
Total BTEx	<0.300	0.300	03/21/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	03/21/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2025	ND	202	101	200	1.07	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	190	95.2	200	4.00	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 101 % 44.4-145

Surrogate: 1-Chlorooctadecane 102 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 32 10 (H251634-32)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	1.91	95.6	2.00	1.59		
Toluene*	<0.050	0.050	03/21/2025	ND	1.99	99.3	2.00	0.234		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.00	100	2.00	0.723		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	6.12	102	6.00	0.115		
Total BTEX	<0.300	0.300	03/21/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1490	16.0	03/21/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2025	ND	202	101	200	1.07	
DRO >C10-C28*	10.9	10.0	03/21/2025	ND	190	95.2	200	4.00	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 107 % 44.4-145

Surrogate: 1-Chlorooctadecane 104 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 33 10 (H251634-33)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	1.91	95.6	2.00	1.59		
Toluene*	<0.050	0.050	03/21/2025	ND	1.99	99.3	2.00	0.234		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.00	100	2.00	0.723		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	6.12	102	6.00	0.115		
Total BTX	<0.300	0.300	03/21/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	03/21/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2025	ND	202	101	200	1.07	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	190	95.2	200	4.00	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 109 % 44.4-145

Surrogate: 1-Chlorooctadecane 109 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 34 10 (H251634-34)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/21/2025	ND	2.17	108	2.00	0.0365	
Toluene*	<0.050	0.050	03/21/2025	ND	2.18	109	2.00	0.883	
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.13	106	2.00	0.519	
Total Xylenes*	<0.150	0.150	03/21/2025	ND	6.44	107	6.00	0.0480	
Total BTX	<0.300	0.300	03/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	03/21/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2025	ND	202	101	200	1.07	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	190	95.2	200	4.00	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 115 % 44.4-145

Surrogate: 1-Chlorooctadecane 116 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 35 10 (H251634-35)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/21/2025	ND	2.17	108	2.00	0.0365	
Toluene*	<0.050	0.050	03/21/2025	ND	2.18	109	2.00	0.883	
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.13	106	2.00	0.519	
Total Xylenes*	<0.150	0.150	03/21/2025	ND	6.44	107	6.00	0.0480	
Total BTX	<0.300	0.300	03/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	03/21/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2025	ND	192	96.0	200	5.40	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	195	97.6	200	4.59	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 91.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 86.6 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 36 10 (H251634-36)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/21/2025	ND	2.17	108	2.00	0.0365	
Toluene*	<0.050	0.050	03/21/2025	ND	2.18	109	2.00	0.883	
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.13	106	2.00	0.519	
Total Xylenes*	<0.150	0.150	03/21/2025	ND	6.44	107	6.00	0.0480	
Total BTX	<0.300	0.300	03/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	03/21/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2025	ND	192	96.0	200	5.40	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	195	97.6	200	4.59	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 107 % 44.4-145

Surrogate: 1-Chlorooctadecane 102 % 40.6-153

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 37 10 (H251634-37)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/21/2025	ND	2.17	108	2.00	0.0365	
Toluene*	<0.050	0.050	03/21/2025	ND	2.18	109	2.00	0.883	
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.13	106	2.00	0.519	
Total Xylenes*	<0.150	0.150	03/21/2025	ND	6.44	107	6.00	0.0480	
Total BTX	<0.300	0.300	03/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	784	16.0	03/24/2025	ND	400	100	400	7.69		

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	03/21/2025	ND	192	96.0	200	5.40	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	195	97.6	200	4.59	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 101 % 44.4-145

Surrogate: 1-Chlorooctadecane 95.8 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 38 10 (H251634-38)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	2.17	108	2.00	0.0365		
Toluene*	<0.050	0.050	03/21/2025	ND	2.18	109	2.00	0.883		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.13	106	2.00	0.519		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	6.44	107	6.00	0.0480		
Total BTEx	<0.300	0.300	03/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	384	16.0	03/24/2025	ND	400	100	400	7.69		

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	03/21/2025	ND	192	96.0	200	5.40	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	195	97.6	200	4.59	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 90.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 82.6 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 39 10 (H251634-39)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	2.17	108	2.00	0.0365		
Toluene*	<0.050	0.050	03/21/2025	ND	2.18	109	2.00	0.883		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.13	106	2.00	0.519		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	6.44	107	6.00	0.0480		
Total BTEX	<0.300	0.300	03/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	688	16.0	03/24/2025	ND	400	100	400	7.69		

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	03/21/2025	ND	192	96.0	200	5.40	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	195	97.6	200	4.59	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 90.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 84.0 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 40 10 (H251634-40)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/21/2025	ND	2.17	108	2.00	0.0365	
Toluene*	<0.050	0.050	03/21/2025	ND	2.18	109	2.00	0.883	
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.13	106	2.00	0.519	
Total Xylenes*	<0.150	0.150	03/21/2025	ND	6.44	107	6.00	0.0480	
Total BTX	<0.300	0.300	03/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	784	16.0	03/24/2025	ND	400	100	400	7.69		

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	03/21/2025	ND	192	96.0	200	5.40	
DRO >C10-C28*	10.6	10.0	03/21/2025	ND	195	97.6	200	4.59	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 92.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 86.9 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 41 10 (H251634-41)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	2.17	108	2.00	0.0365		
Toluene*	<0.050	0.050	03/21/2025	ND	2.18	109	2.00	0.883		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.13	106	2.00	0.519		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	6.44	107	6.00	0.0480		
Total BTEX	<0.300	0.300	03/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	03/24/2025	ND	400	100	400	7.69		

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	03/21/2025	ND	192	96.0	200	5.40	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	195	97.6	200	4.59	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 99.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 95.8 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 42 10 (H251634-42)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/21/2025	ND	2.17	108	2.00	0.0365	
Toluene*	<0.050	0.050	03/21/2025	ND	2.18	109	2.00	0.883	
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.13	106	2.00	0.519	
Total Xylenes*	<0.150	0.150	03/21/2025	ND	6.44	107	6.00	0.0480	
Total BTX	<0.300	0.300	03/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	496	16.0	03/24/2025	ND	400	100	400	7.69		

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	03/21/2025	ND	192	96.0	200	5.40	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	195	97.6	200	4.59	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 110 % 44.4-145

Surrogate: 1-Chlorooctadecane 105 % 40.6-153

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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 43 10 (H251634-43)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	2.17	108	2.00	0.0365		
Toluene*	<0.050	0.050	03/21/2025	ND	2.18	109	2.00	0.883		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.13	106	2.00	0.519		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	6.44	107	6.00	0.0480		
Total BTX	<0.300	0.300	03/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	592	16.0	03/24/2025	ND	400	100	400	7.69		

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	03/21/2025	ND	192	96.0	200	5.40	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	195	97.6	200	4.59	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 110 % 44.4-145

Surrogate: 1-Chlorooctadecane 105 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 44 10 (H251634-44)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/21/2025	ND	2.17	108	2.00	0.0365	
Toluene*	<0.050	0.050	03/21/2025	ND	2.18	109	2.00	0.883	
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.13	106	2.00	0.519	
Total Xylenes*	<0.150	0.150	03/21/2025	ND	6.44	107	6.00	0.0480	
Total BTX	<0.300	0.300	03/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	784	16.0	03/24/2025	ND	400	100	400	7.69		

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	03/21/2025	ND	192	96.0	200	5.40	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	195	97.6	200	4.59	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 106 % 44.4-145

Surrogate: 1-Chlorooctadecane 104 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 45 10 (H251634-45)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	2.17	108	2.00	0.0365		
Toluene*	<0.050	0.050	03/21/2025	ND	2.18	109	2.00	0.883		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.13	106	2.00	0.519		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	6.44	107	6.00	0.0480		
Total BTEx	<0.300	0.300	03/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	960	16.0	03/24/2025	ND	400	100	400	7.69		

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	03/21/2025	ND	192	96.0	200	5.40	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	195	97.6	200	4.59	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 97.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 93.7 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 46 10 (H251634-46)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/21/2025	ND	2.17	108	2.00	0.0365	
Toluene*	<0.050	0.050	03/21/2025	ND	2.18	109	2.00	0.883	
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.13	106	2.00	0.519	
Total Xylenes*	<0.150	0.150	03/21/2025	ND	6.44	107	6.00	0.0480	
Total BTX	<0.300	0.300	03/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	576	16.0	03/24/2025	ND	400	100	400	7.69		

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	03/21/2025	ND	192	96.0	200	5.40	
DRO >C10-C28*	16.5	10.0	03/21/2025	ND	195	97.6	200	4.59	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 107 % 44.4-145

Surrogate: 1-Chlorooctadecane 104 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 47 10 (H251634-47)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/21/2025	ND	2.17	108	2.00	0.0365	
Toluene*	<0.050	0.050	03/21/2025	ND	2.18	109	2.00	0.883	
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.13	106	2.00	0.519	
Total Xylenes*	<0.150	0.150	03/21/2025	ND	6.44	107	6.00	0.0480	
Total BTX	<0.300	0.300	03/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	03/24/2025	ND	400	100	400	7.69		

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	03/21/2025	ND	192	96.0	200	5.40	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	195	97.6	200	4.59	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 112 % 44.4-145

Surrogate: 1-Chlorooctadecane 109 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 48 10 (H251634-48)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/21/2025	ND	2.17	108	2.00	0.0365	
Toluene*	<0.050	0.050	03/21/2025	ND	2.18	109	2.00	0.883	
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.13	106	2.00	0.519	
Total Xylenes*	<0.150	0.150	03/21/2025	ND	6.44	107	6.00	0.0480	
Total BTX	<0.300	0.300	03/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	528	16.0	03/24/2025	ND	400	100	400	7.69		

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	03/21/2025	ND	192	96.0	200	5.40	
DRO >C10-C28*	19.8	10.0	03/21/2025	ND	195	97.6	200	4.59	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 105 % 44.4-145

Surrogate: 1-Chlorooctadecane 103 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 49 10 (H251634-49)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	2.17	108	2.00	0.0365		
Toluene*	<0.050	0.050	03/21/2025	ND	2.18	109	2.00	0.883		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.13	106	2.00	0.519		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	6.44	107	6.00	0.0480		
Total BTEX	<0.300	0.300	03/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	768	16.0	03/24/2025	ND	400	100	400	7.69		

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	03/21/2025	ND	192	96.0	200	5.40	
DRO >C10-C28*	30.0	10.0	03/21/2025	ND	195	97.6	200	4.59	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 113 % 44.4-145

Surrogate: 1-Chlorooctadecane 110 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 50 10 (H251634-50)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/21/2025	ND	2.17	108	2.00	0.0365	
Toluene*	<0.050	0.050	03/21/2025	ND	2.18	109	2.00	0.883	
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.13	106	2.00	0.519	
Total Xylenes*	<0.150	0.150	03/21/2025	ND	6.44	107	6.00	0.0480	
Total BTEX	<0.300	0.300	03/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	560	16.0	03/24/2025	ND	400	100	400	7.69		

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	03/21/2025	ND	192	96.0	200	5.40	
DRO >C10-C28*	30.3	10.0	03/21/2025	ND	195	97.6	200	4.59	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 111 % 44.4-145

Surrogate: 1-Chlorooctadecane 107 % 40.6-153

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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 51 10 (H251634-51)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	2.17	108	2.00	0.0365		
Toluene*	<0.050	0.050	03/21/2025	ND	2.18	109	2.00	0.883		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.13	106	2.00	0.519		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	6.44	107	6.00	0.0480		
Total BTEx	<0.300	0.300	03/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	03/24/2025	ND	400	100	400	7.69		

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	03/21/2025	ND	192	96.0	200	5.40	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	195	97.6	200	4.59	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 112 % 44.4-145

Surrogate: 1-Chlorooctadecane 108 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 52 10 (H251634-52)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	2.17	108	2.00	0.0365		
Toluene*	<0.050	0.050	03/21/2025	ND	2.18	109	2.00	0.883		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.13	106	2.00	0.519		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	6.44	107	6.00	0.0480		
Total BTEX	<0.300	0.300	03/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	03/24/2025	ND	400	100	400	7.69		

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	03/21/2025	ND	192	96.0	200	5.40	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	195	97.6	200	4.59	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 110 % 44.4-145

Surrogate: 1-Chlorooctadecane 105 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 53 10 (H251634-53)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/21/2025	ND	2.17	108	2.00	0.0365	
Toluene*	<0.050	0.050	03/21/2025	ND	2.18	109	2.00	0.883	
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.13	106	2.00	0.519	
Total Xylenes*	<0.150	0.150	03/21/2025	ND	6.44	107	6.00	0.0480	
Total BTX	<0.300	0.300	03/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	03/24/2025	ND	400	100	400	7.69		

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	03/21/2025	ND	192	96.0	200	5.40	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	195	97.6	200	4.59	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 98.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 92.9 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 54 10 (H251634-54)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	1.87	93.7	2.00	0.136		
Toluene*	<0.050	0.050	03/21/2025	ND	2.11	106	2.00	1.25		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.33	116	2.00	1.73	QM-07	
Total Xylenes*	<0.150	0.150	03/21/2025	ND	7.01	117	6.00	2.42		
Total BTEX	<0.300	0.300	03/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 131 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	03/24/2025	ND	400	100	400	7.69		

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	03/21/2025	ND	192	96.0	200	5.40	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	195	97.6	200	4.59	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 111 % 44.4-145

Surrogate: 1-Chlorooctadecane 106 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 55 10 (H251634-55)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	1.87	93.7	2.00	0.136		
Toluene*	<0.050	0.050	03/21/2025	ND	2.11	106	2.00	1.25		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.33	116	2.00	1.73		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	7.01	117	6.00	2.42		
Total BTEX	<0.300	0.300	03/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 131 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	03/24/2025	ND	400	100	400	7.69		

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	03/21/2025	ND	219	110	200	3.14	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	205	102	200	4.40	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 89.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 81.7 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 56 10 (H251634-56)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	1.87	93.7	2.00	0.136		
Toluene*	<0.050	0.050	03/21/2025	ND	2.11	106	2.00	1.25		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.33	116	2.00	1.73		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	7.01	117	6.00	2.42		
Total BTX	<0.300	0.300	03/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 128 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	03/24/2025	ND	400	100	400	7.69	

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	03/21/2025	ND	219	110	200	3.14	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	205	102	200	4.40	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 72.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 65.2 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 57 10 (H251634-57)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	1.87	93.7	2.00	0.136		
Toluene*	<0.050	0.050	03/21/2025	ND	2.11	106	2.00	1.25		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.33	116	2.00	1.73		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	7.01	117	6.00	2.42		
Total BTEX	<0.300	0.300	03/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 127 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	864	16.0	03/24/2025	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	03/21/2025	ND	219	110	200	3.14	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	205	102	200	4.40	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 86.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 78.2 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 58 10 (H251634-58)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	1.87	93.7	2.00	0.136		
Toluene*	<0.050	0.050	03/21/2025	ND	2.11	106	2.00	1.25		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.33	116	2.00	1.73		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	7.01	117	6.00	2.42		
Total BTX	<0.300	0.300	03/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 132 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	03/24/2025	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	03/21/2025	ND	219	110	200	3.14	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	205	102	200	4.40	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 89.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 82.5 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 59 10 (H251634-59)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	1.87	93.7	2.00	0.136		
Toluene*	<0.050	0.050	03/21/2025	ND	2.11	106	2.00	1.25		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.33	116	2.00	1.73		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	7.01	117	6.00	2.42		
Total BTX	<0.300	0.300	03/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 121 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	448	16.0	03/24/2025	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	03/21/2025	ND	219	110	200	3.14	
DRO >C10-C28*	14.6	10.0	03/21/2025	ND	205	102	200	4.40	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 88.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 81.6 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 60 10 (H251634-60)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	1.87	93.7	2.00	0.136		
Toluene*	<0.050	0.050	03/21/2025	ND	2.11	106	2.00	1.25		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.33	116	2.00	1.73		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	7.01	117	6.00	2.42		
Total BTX	<0.300	0.300	03/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	03/24/2025	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	03/21/2025	ND	219	110	200	3.14	
DRO >C10-C28*	10.0	10.0	03/21/2025	ND	205	102	200	4.40	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 83.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 76.7 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 61 10 (H251634-61)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	1.87	93.7	2.00	0.136		
Toluene*	<0.050	0.050	03/21/2025	ND	2.11	106	2.00	1.25		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.33	116	2.00	1.73		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	7.01	117	6.00	2.42		
Total BTX	<0.300	0.300	03/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 131 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	03/24/2025	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	03/21/2025	ND	219	110	200	3.14	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	205	102	200	4.40	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 91.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 84.1 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 62 10 (H251634-62)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	1.87	93.7	2.00	0.136		
Toluene*	<0.050	0.050	03/21/2025	ND	2.11	106	2.00	1.25		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.33	116	2.00	1.73		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	7.01	117	6.00	2.42		
Total BTX	<0.300	0.300	03/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	528	16.0	03/24/2025	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	03/21/2025	ND	219	110	200	3.14	
DRO >C10-C28*	33.3	10.0	03/21/2025	ND	205	102	200	4.40	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 78.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 73.5 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 63 10 (H251634-63)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	1.87	93.7	2.00	0.136		
Toluene*	<0.050	0.050	03/21/2025	ND	2.11	106	2.00	1.25		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.33	116	2.00	1.73		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	7.01	117	6.00	2.42		
Total BTEX	<0.300	0.300	03/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	464	16.0	03/24/2025	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	03/21/2025	ND	219	110	200	3.14	
DRO >C10-C28*	16.2	10.0	03/21/2025	ND	205	102	200	4.40	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 88.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 82.5 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 64 10 (H251634-64)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	1.87	93.7	2.00	0.136		
Toluene*	<0.050	0.050	03/21/2025	ND	2.11	106	2.00	1.25		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.33	116	2.00	1.73		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	7.01	117	6.00	2.42		
Total BTX	<0.300	0.300	03/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 131 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	03/24/2025	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	03/21/2025	ND	219	110	200	3.14	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	205	102	200	4.40	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 90.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 83.1 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 65 7 (H251634-65)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	1.87	93.7	2.00	0.136		
Toluene*	<0.050	0.050	03/21/2025	ND	2.11	106	2.00	1.25		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.33	116	2.00	1.73		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	7.01	117	6.00	2.42		
Total BTEx	<0.300	0.300	03/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	03/24/2025	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	03/21/2025	ND	219	110	200	3.14	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	205	102	200	4.40	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 80.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 75.6 % 40.6-153

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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 66 7 (H251634-66)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	1.87	93.7	2.00	0.136		
Toluene*	<0.050	0.050	03/21/2025	ND	2.11	106	2.00	1.25		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.33	116	2.00	1.73		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	7.01	117	6.00	2.42		
Total BTEX	<0.300	0.300	03/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 122 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	464	16.0	03/24/2025	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	03/21/2025	ND	219	110	200	3.14	
DRO >C10-C28*	21.4	10.0	03/21/2025	ND	205	102	200	4.40	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 86.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 80.6 % 40.6-153

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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 67 7 (H251634-67)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	1.87	93.7	2.00	0.136		
Toluene*	<0.050	0.050	03/21/2025	ND	2.11	106	2.00	1.25		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.33	116	2.00	1.73		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	7.01	117	6.00	2.42		
Total BTX	<0.300	0.300	03/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	03/24/2025	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	03/21/2025	ND	219	110	200	3.14	
DRO >C10-C28*	31.5	10.0	03/21/2025	ND	205	102	200	4.40	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 75.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 78.6 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 68 7 (H251634-68)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	1.87	93.7	2.00	0.136		
Toluene*	<0.050	0.050	03/21/2025	ND	2.11	106	2.00	1.25		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.33	116	2.00	1.73		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	7.01	117	6.00	2.42		
Total BTX	<0.300	0.300	03/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 127 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	03/24/2025	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	03/21/2025	ND	219	110	200	3.14	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	205	102	200	4.40	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 85.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 79.3 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 69 7 (H251634-69)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/21/2025	ND	1.87	93.7	2.00	0.136	
Toluene*	<0.050	0.050	03/21/2025	ND	2.11	106	2.00	1.25	
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.33	116	2.00	1.73	
Total Xylenes*	<0.150	0.150	03/21/2025	ND	7.01	117	6.00	2.42	
Total BTX	<0.300	0.300	03/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	03/24/2025	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	03/21/2025	ND	219	110	200	3.14	
DRO >C10-C28*	26.9	10.0	03/21/2025	ND	205	102	200	4.40	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 86.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 81.2 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 70 7 (H251634-70)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	1.87	93.7	2.00	0.136		
Toluene*	<0.050	0.050	03/21/2025	ND	2.11	106	2.00	1.25		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.33	116	2.00	1.73		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	7.01	117	6.00	2.42		
Total BTEX	<0.300	0.300	03/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 121 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1310	16.0	03/24/2025	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	03/21/2025	ND	219	110	200	3.14	
DRO >C10-C28*	17.9	10.0	03/21/2025	ND	205	102	200	4.40	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 82.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 77.4 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 71 7 (H251634-71)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	1.87	93.7	2.00	0.136		
Toluene*	<0.050	0.050	03/21/2025	ND	2.11	106	2.00	1.25		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.33	116	2.00	1.73		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	7.01	117	6.00	2.42		
Total BTEx	<0.300	0.300	03/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1310	16.0	03/24/2025	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	03/21/2025	ND	219	110	200	3.14	
DRO >C10-C28*	39.1	10.0	03/21/2025	ND	205	102	200	4.40	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 82.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 77.9 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 72 7 (H251634-72)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	1.87	93.7	2.00	0.136		
Toluene*	<0.050	0.050	03/21/2025	ND	2.11	106	2.00	1.25		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.33	116	2.00	1.73		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	7.01	117	6.00	2.42		
Total BTEX	<0.300	0.300	03/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 122 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1390	16.0	03/24/2025	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	03/21/2025	ND	219	110	200	3.14	
DRO >C10-C28*	36.6	10.0	03/21/2025	ND	205	102	200	4.40	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 78.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 73.3 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 73 7 (H251634-73)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/21/2025	ND	1.87	93.7	2.00	0.136	
Toluene*	<0.050	0.050	03/21/2025	ND	2.11	106	2.00	1.25	
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.33	116	2.00	1.73	
Total Xylenes*	<0.150	0.150	03/21/2025	ND	7.01	117	6.00	2.42	
Total BTX	<0.300	0.300	03/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 122 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	576	16.0	03/24/2025	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	03/21/2025	ND	219	110	200	3.14	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	205	102	200	4.40	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 84.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 78.7 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 74 7 (H251634-74)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	1.81	90.4	2.00	2.22		
Toluene*	<0.050	0.050	03/21/2025	ND	2.00	99.8	2.00	3.87		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.24	112	2.00	5.80	QM-07	
Total Xylenes*	<0.150	0.150	03/21/2025	ND	6.73	112	6.00	6.22		
Total BTEX	<0.300	0.300	03/21/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1220	16.0	03/24/2025	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	03/21/2025	ND	219	110	200	3.14	
DRO >C10-C28*	33.2	10.0	03/21/2025	ND	205	102	200	4.40	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 83.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 79.5 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 75 7 (H251634-75)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	1.81	90.4	2.00	2.22		
Toluene*	<0.050	0.050	03/21/2025	ND	2.00	99.8	2.00	3.87		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.24	112	2.00	5.80		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	6.73	112	6.00	6.22		
Total BTEX	<0.300	0.300	03/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1380	16.0	03/24/2025	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	03/21/2025	ND	210	105	200	3.00	
DRO >C10-C28*	40.6	10.0	03/21/2025	ND	203	102	200	6.74	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 96.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 99.3 % 40.6-153

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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 76 7 (H251634-76)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	1.81	90.4	2.00	2.22		
Toluene*	<0.050	0.050	03/21/2025	ND	2.00	99.8	2.00	3.87		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.24	112	2.00	5.80		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	6.73	112	6.00	6.22		
Total BTEX	<0.300	0.300	03/21/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1500	16.0	03/24/2025	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	03/21/2025	ND	210	105	200	3.00	
DRO >C10-C28*	44.0	10.0	03/21/2025	ND	203	102	200	6.74	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 102 % 44.4-145

Surrogate: 1-Chlorooctadecane 104 % 40.6-153

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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 77 7 (H251634-77)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	1.81	90.4	2.00	2.22		
Toluene*	<0.050	0.050	03/21/2025	ND	2.00	99.8	2.00	3.87		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.24	112	2.00	5.80		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	6.73	112	6.00	6.22		
Total BTEx	<0.300	0.300	03/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	03/21/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2025	ND	210	105	200	3.00	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	203	102	200	6.74	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 108 % 44.4-145

Surrogate: 1-Chlorooctadecane 106 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 78 7 (H251634-78)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	1.81	90.4	2.00	2.22		
Toluene*	<0.050	0.050	03/21/2025	ND	2.00	99.8	2.00	3.87		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.24	112	2.00	5.80		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	6.73	112	6.00	6.22		
Total BTEx	<0.300	0.300	03/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	03/21/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2025	ND	210	105	200	3.00	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	203	102	200	6.74	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 104 % 44.4-145

Surrogate: 1-Chlorooctadecane 104 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 79 7 (H251634-79)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	1.81	90.4	2.00	2.22		
Toluene*	<0.050	0.050	03/21/2025	ND	2.00	99.8	2.00	3.87		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.24	112	2.00	5.80		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	6.73	112	6.00	6.22		
Total BTEx	<0.300	0.300	03/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	03/21/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2025	ND	210	105	200	3.00	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	203	102	200	6.74	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 88.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 85.6 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 80 7 (H251634-80)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	1.81	90.4	2.00	2.22		
Toluene*	<0.050	0.050	03/21/2025	ND	2.00	99.8	2.00	3.87		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.24	112	2.00	5.80		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	6.73	112	6.00	6.22		
Total BTEX	<0.300	0.300	03/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/21/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2025	ND	210	105	200	3.00	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	203	102	200	6.74	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 110 % 44.4-145

Surrogate: 1-Chlorooctadecane 108 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 81 7 (H251634-81)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	1.81	90.4	2.00	2.22		
Toluene*	<0.050	0.050	03/21/2025	ND	2.00	99.8	2.00	3.87		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.24	112	2.00	5.80		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	6.73	112	6.00	6.22		
Total BTEX	<0.300	0.300	03/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	03/21/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2025	ND	210	105	200	3.00	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	203	102	200	6.74	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 102 % 44.4-145

Surrogate: 1-Chlorooctadecane 99.6 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 82 7 (H251634-82)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	1.81	90.4	2.00	2.22		
Toluene*	<0.050	0.050	03/21/2025	ND	2.00	99.8	2.00	3.87		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.24	112	2.00	5.80		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	6.73	112	6.00	6.22		
Total BTEx	<0.300	0.300	03/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	03/21/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2025	ND	210	105	200	3.00	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	203	102	200	6.74	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 100 % 44.4-145

Surrogate: 1-Chlorooctadecane 97.8 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 83 7 (H251634-83)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	1.81	90.4	2.00	2.22		
Toluene*	<0.050	0.050	03/21/2025	ND	2.00	99.8	2.00	3.87		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.24	112	2.00	5.80		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	6.73	112	6.00	6.22		
Total BTEX	<0.300	0.300	03/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	544	16.0	03/21/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2025	ND	210	105	200	3.00	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	203	102	200	6.74	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 76.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 73.2 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 84 7 (H251634-84)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	1.81	90.4	2.00	2.22		
Toluene*	<0.050	0.050	03/21/2025	ND	2.00	99.8	2.00	3.87		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.24	112	2.00	5.80		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	6.73	112	6.00	6.22		
Total BTX	<0.300	0.300	03/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	752	16.0	03/21/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2025	ND	210	105	200	3.00	
DRO >C10-C28*	19.2	10.0	03/21/2025	ND	203	102	200	6.74	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 104 % 44.4-145

Surrogate: 1-Chlorooctadecane 103 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 85 7 (H251634-85)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	1.81	90.4	2.00	2.22		
Toluene*	<0.050	0.050	03/21/2025	ND	2.00	99.8	2.00	3.87		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.24	112	2.00	5.80		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	6.73	112	6.00	6.22		
Total BTEx	<0.300	0.300	03/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	992	16.0	03/21/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2025	ND	210	105	200	3.00	
DRO >C10-C28*	12.6	10.0	03/21/2025	ND	203	102	200	6.74	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 90.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 88.1 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 86 7 (H251634-86)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	1.81	90.4	2.00	2.22		
Toluene*	<0.050	0.050	03/21/2025	ND	2.00	99.8	2.00	3.87		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.24	112	2.00	5.80		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	6.73	112	6.00	6.22		
Total BTEX	<0.300	0.300	03/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	03/21/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2025	ND	210	105	200	3.00	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	203	102	200	6.74	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 95.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 92.5 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 87 7 (H251634-87)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	1.81	90.4	2.00	2.22		
Toluene*	<0.050	0.050	03/21/2025	ND	2.00	99.8	2.00	3.87		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.24	112	2.00	5.80		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	6.73	112	6.00	6.22		
Total BTX	<0.300	0.300	03/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/21/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2025	ND	210	105	200	3.00	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	203	102	200	6.74	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 109 % 44.4-145

Surrogate: 1-Chlorooctadecane 107 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 88 7 (H251634-88)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	1.81	90.4	2.00	2.22		
Toluene*	<0.050	0.050	03/21/2025	ND	2.00	99.8	2.00	3.87		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.24	112	2.00	5.80		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	6.73	112	6.00	6.22		
Total BTEx	<0.300	0.300	03/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	03/21/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2025	ND	210	105	200	3.00	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	203	102	200	6.74	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 103 % 44.4-145

Surrogate: 1-Chlorooctadecane 101 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 89 7 (H251634-89)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	1.81	90.4	2.00	2.22		
Toluene*	<0.050	0.050	03/21/2025	ND	2.00	99.8	2.00	3.87		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.24	112	2.00	5.80		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	6.73	112	6.00	6.22		
Total BTEX	<0.300	0.300	03/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	560	16.0	03/21/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2025	ND	210	105	200	3.00	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	203	102	200	6.74	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 106 % 44.4-145

Surrogate: 1-Chlorooctadecane 104 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 90 7 (H251634-90)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	1.81	90.4	2.00	2.22		
Toluene*	<0.050	0.050	03/21/2025	ND	2.00	99.8	2.00	3.87		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.24	112	2.00	5.80		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	6.73	112	6.00	6.22		
Total BTEX	<0.300	0.300	03/21/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	03/21/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2025	ND	210	105	200	3.00	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	203	102	200	6.74	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 113 % 44.4-145

Surrogate: 1-Chlorooctadecane 110 % 40.6-153

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC Project Manager: Beetz-Jennings Address: 601 N Marientfeld Street, Suite 400 City: Midland State: TX Zip: 79701 Phone #: 210-240-8858 Fax #: 210-240-8859 Project #: 038417261 Project Name: SAGE 18 FEE A COM. #0014 Project Location: LEX COUNTY Sampler Name: Uden Aguirre, Leandra										BILL TO P.O. #: Company: Oxy USA Inc. Attn: Wade Dittich Address: City: State: Zip: Phone #: 575-390-2828 Fax #:										ANALYSIS REQUEST																																																																															
FOR LAB USE ONLY										LABORATORY USE ONLY																																																																																									
Lab I.D.										Sample I.D.										Depth (feet)										(G)RAB OR (C)OMP.										# CONTAINERS										MATRIX										PRESERV.										SAMPLING																													
1										FS01										10										C										5										SOIL										ACID/BASE:										ICE / COOL										DATE										TIME									
2										FS02										10										C										5										SOIL										ACID/BASE:										ICE / COOL										DATE										TIME									
3										FS03										10										C										5										SOIL										ACID/BASE:										ICE / COOL										DATE										TIME									
4										FS04										10										C										5										SOIL										ACID/BASE:										ICE / COOL										DATE										TIME									
5										FS05										10										C										5										SOIL										ACID/BASE:										ICE / COOL										DATE										TIME									
6										FS06										10										C										5										SOIL										ACID/BASE:										ICE / COOL										DATE										TIME									
7										FS07										8										C										5										SOIL										ACID/BASE:										ICE / COOL										DATE										TIME									
8										FS08										8										C										5										SOIL										ACID/BASE:										ICE / COOL										DATE										TIME									
9										FS09										8										C										5										SOIL										ACID/BASE:										ICE / COOL										DATE										TIME									
10										FS10										8										C										5										SOIL										ACID/BASE:										ICE / COOL										DATE										TIME									

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Relinquished By: *[Signature]* **Date:** 3/19/25 **Received By:** *[Signature]* **Date:** 3/19/25

Relinquished By: *[Signature]* **Date:** 3/19/25 **Received By:** *[Signature]* **Date:** 3/19/25

Delivered By: (Circle One) ☒ **Observed Temp. °C** 0.1 **Sample Condition** ☒ **Intact** **CHECKED BY:** *[Signature]*

Sampler - UPS - Bus - Other: ☒ **Corrected Temp. °C** 0.4 **Sample Condition** ☒ **Intact** **CHECKED BY:** *[Signature]*

Turnaround Time: ☒ **Standard** ☐ **Bacteria (only)** ☐ **Sample Condition** ☒ **Intact** **Observed Temp. °C** **Corrected Temp. °C**

Thermometer ID: #443 **Corrosion Factor:** 0.3

Remarks:

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

All Results are emailed. Please provide Email address:

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
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[illegible]



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO												ANALYSIS REQUEST															
Company Name: Ensolum, LLC												P.O. #:															
Project Manager: Beetz Jennings - Smart THX MCKENZIE												Company: Oxy USA Inc.															
Address: 601 N Marlenfeld Street, Suite 400												Attn: Wade Dittrich															
City: Midland State: TX Zip: 79701												Address:															
Phone #: 210-240-8868 Fax #: 562-357-155x S:mackenzie@ensolum.com City:																											
Project #: Q3B4H7261 Project Owner:												State: Zip:															
Project Name: PAGE 18 FEE A COM. #001A												Phone #: 575-390-2828															
Project Location: LEX COUNTY												Fax #:															
Sampler Name: Uden Agura, Leandra												PRESERV SAMPLING															
FOR LAB USE ONLY																											
Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP. # CONTAINERS	MATRIX	PRESERV	SAMPLING	DATE	TIME																			
HASILW34	F521	10	C	GROUNDWATER	X		3/19/25	0944	BTEX 8021																		
a1	F522	10	C	SOIL				0946	TPH 8015																		
a2	F523	10		OIL				0948	CHLORIDE 4500																		
a3	F524	10		SLUDGE				0950																			
a4	F525	10		OTHER :				1000																			
a5	F526	10		ACID/BASE:				1002																			
a6	F527	10		ICE / COOL				1004																			
a7	F528	10		OTHER :				1006																			
a8	F529	10						1008																			
a9	F530	10	C				3/19/25	1010																			
PLEASE NOTE: Lab and Damage Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the services performed at Cardinal's facility.														Verbal Result: Yes No Add'l Phone #:													
Relinquished By: [Signature] Date: 3/19/25 Time: 10:30 AM Received By: Stocker Date: 3/19/25 Time: 10:30 AM														All Results are emailed. Please provide Email address:													
Remarks:																											
Turnaround Time: Standard Rush Bacteria (only) Sample Condition Observed Temp. °C Corrected Temp. °C																											
Thermometer ID #113 Correction Factor -.05°C																											
Delivered By: UPS Bus Other: Cool Intact Yes No Checked BY: (Initials) SE																											
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(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Ensolium, LLC</u>		P.O. #:		BILL TO		ANALYSIS REQUEST											
Project Manager: <u>Brett Jennings</u>		Company: <u>Oxy USA Inc.</u>															
Address: <u>601 N Marientfeld Street, Suite 400</u>		Attn: <u>Wade Dittich</u>															
City: <u>Midland</u>		State: <u>TX</u> Zip: <u>79701</u>															
Phone #: <u>210-240-8888</u>		City: <u>Midland</u>															
Project #: <u>0384417261</u>		State: <u>TX</u> Zip: <u>79701</u>															
Project Name: <u>OSAGE 18 FEE A COM. #0014</u>		Phone #: <u>575-390-2828</u>															
Project Location: <u>LEA COUNTY</u>		Fax #:															
Sample Name: <u>Uden Agua, Leandra</u>		PRESERV.		SAMPLING													
FOR LAB USE ONLY		MATRIX															
Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME		
HASILC34	FS31	10	C	5										3/19/25	10 12	X	BTEX 8021
31	FS32	10	C	5										3/19/25	10 14	X	TPH 8015
33	FS33	10	C	5										3/19/25	10 16	X	CHLORIDE 4500
34	FS34	10	C	5										3/19/25	10 18	X	
35	FS35	10	C	5										3/19/25	10 20	X	
36	FS36	10	C	5										3/19/25	10 22	X	
37	FS37	10	C	5										3/19/25	10 24	X	
38	FS38	10	C	5										3/19/25	10 26	X	
39	FS39	10	C	5										3/19/25	10 28	X	
40	FS40	10	C	5										3/19/25	10 30	X	

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Relinquished By: [Signature] Date: 3/19/25 Time: 10:35

Received By: [Signature] Date: 3/19/25 Time: 10:35

Delivered By: (Circle One) Other Corrected Temp. °C 0.4

Sample - UPS - Bus - Other: Other Corrected Temp. °C 0.4

Sample Condition: Intact Checked By: [Signature] (Initials)

Turnaround Time: 140 Standard 10:30 Rush 10:30

Thermometer ID # 113 Bacteria (only) Yes Sample Condition Observed

Corrosion Factor 0.5°C Cool Intact Yes Corrected Temp. °C 0.4

Verbal Result: Yes No Add'l Phone #:

All Results are emailed. Please provide Email address:

REMARKS:

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

Company Name: <u>Beetx-dennings</u>		P.O. #:	
Project Manager: <u>Samantha MCKENZIE</u>		Company: <u>Oxy USA Inc.</u>	
Address: <u>601 N Marland Street, Suite 400</u>		Attn: <u>Wade Dietrich</u>	
City: <u>Midland</u>	State: <u>TX</u>	Zip: <u>79701</u>	Address:
Phone #: <u>210-240-8888</u>	<u>703-357-3445</u>	City:	State:
Project #: <u>0384417261</u>	Project Owner:	Zip:	Phone #: <u>575-390-2828</u>
Project Name: <u>WAGE 18 FEE A COM. #0014</u>	Project Location: <u>LEX COUNTY</u>	Fax #:	
Sample Name: <u>Uden Agucs, Leandra</u>	FOR LAB USE ONLY	PRESERV:	SAMPLING

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX								DATE	TIME	ANALYSIS REQUEST
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL			
41	FS 41	10	C									3/19/25	10 32	X	BTEX 8021
42	FS 42		C									10 34	10 36	X	TPH 8015
43	FS 43		C									10 36	10 38	X	CHLORIDE 4500
44	FS 44		C									10 40	10 42	X	
45	FS 44		C									10 42	10 44	X	
46	FS 46		C									10 46	10 48	X	
47	FS 47		C									10 48	10 50	X	
48	FS 48		C									10 50		X	
49	FS 49		C											X	
50	FS 50		C											X	

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Relinquished By: [Signature] Date: 3/25 Time: 11:00

Received By: [Signature] Date: 3/25 Time: 11:00

Delivered By: (Circle One) Other Corrected Temp.: 94.2 Sample Condition: Yes Checked By: [Signature] Initials: SK

Turnaround Time: Standard ☒ Rush ☐ Bacteria (only) ☐ Sample Condition ☐ Observed Temp.: 10.3 ☐ Corrected Temp.: 10.3

Thermometer ID #413 10.3 ☐ Bacteria (only) ☐ Sample Condition ☐ Observed Temp.: 10.3 ☐ Corrected Temp.: 10.3

Corrosion Factor: 0.5 ☐ Bacteria (only) ☐ Sample Condition ☐ Observed Temp.: 10.3 ☐ Corrected Temp.: 10.3

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC		P.O. #:		BILL TO		ANALYSIS REQUEST												
Project Manager: Beech-Jennings, Smartt H. MCKENZIE		Company: Oxy USA Inc.																
Address: 601 N Marland Street, Suite 400		Attn: Wade Dietrich																
City: Midland		State: TX Zip: 79701																
Phone #: 210-240-8868 703-357-3445 #5 Smackegie @ end of run		City:																
Project #: 0384417261 Project Owner:		State:																
Project Name: SAGE 18 FEE A COM. #0014		Zip:																
Project Location: LEA COUNTY		Phone #: 575-390-2828																
Sampler Name: Uden Aguirre, Leandra		Fax #:																
FOR LAB USE ONLY		PRESERV.		SAMPLING														
Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	BTEX 8021	TPH 8015	CHLORIDE 4500
S1	P5 S1	10	C				S							3/19/25	10:57	X	X	X
S2	P5 S2		C											10:54	10:54	X	X	X
S3	P5 S3		C											10:56	10:56	X	X	X
S4	P5 S4		C											10:58	10:58	X	X	X
S5	P5 S5		C											11:00	11:00	X	X	X
S6	P5 S6		C											11:02	11:02	X	X	X
S7	P5 S7		C											11:04	11:04	X	X	X
S8	P5 S8		C											11:06	11:06	X	X	X
S9	P5 S9		C											11:08	11:08	X	X	X
W0	P5 W0	70	C				S							3/19/25	11:10	X	X	X

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Relinquished By: *[Signature]* Date: 3/19/25 Time: 1:00 PM Received By: *Stodolnick*

Delivered By: (Circle One) ☒ UPS ☐ Bus ☐ Other: Corrected Temp.: 0.4°C Sample Condition: ☒ Cool ☐ Intact ☐ Yes ☐ No ☐ Yes ☐ No CHECKED BY: *[Signature]* (Initials)

Turnaround Time: Standard ☒ Rush ☐ Bacteria (only) ☐ Sample Condition: ☐ Cool ☐ Intact ☐ Yes ☐ No ☐ Yes ☐ No Corrected Temp.: °C

Thermometer ID #143 Corrosion Factor: 0.5°C

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

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Ensolum, LLC		P.O. #:		BILL TO		ANALYSIS REQUEST	
Project Manager: Beetz Jennings Smith & McKenzie		Company: Oxy USA Inc.					
Address: 601 N Marlenfeld Street, Suite 400		Attn: Wade Dittrich					
City: Midland		State: TX Zip: 79701					
Phone #: 210-240-8888 703-3573445 #Smackenzie@ensolum.com		City:					
Project #: 0384417261 Project Owner:		State:					
Project Name: OXAGE 18 FEE A COM. #0014		Zip:					
Project Location: LEA COUNTY		Phone #: 575-390-2828					
Sample Name: Uden Ayukg, Leandra		Fax #:					
FOR LAB USE ONLY		PRESERV.		SAMPLING			
Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	DATE	TIME
					GROUNDWATER		
					WASTEWATER		
					SOIL		
					OIL		
					SLUDGE		
					OTHER:		
					ACID/BASE:		
					ICE / COOL		
					OTHER:		
4351034	FS 61	10	C	5		3/9/25	11:12
401	FS 62	10	C	5		3/9/25	11:14
403	FS 63	10	C	5		3/9/25	11:16
403	FS 63	10	C	5		3/9/25	11:18
404	FS 64	10	C	5		3/9/25	11:20
405	FS 65	10	C	5		3/9/25	11:22
406	FS 66	10	C	5		3/9/25	11:24
407	FS 67	10	C	5		3/9/25	11:26
408	FS 68	10	C	5		3/9/25	11:28
409	FS 69	10	C	5		3/9/25	11:30
70	FS 70	10	C	5		3/9/25	11:30
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Relinquished By: [Signature]		Date: 3/9/25		Time: 11:30		All Results are emailed. Please provide Email address:	
Redelivered By: [Signature]		Date: 3/9/25		Time: 11:30		REMARKS:	
Delivered By: (Circle One)		Observed Temp. °C		Sample Condition		CHECKED BY: [Signature]	
Sampler - UPS - Bus - Other:		Corrected Temp. °C		Cool Intact		Turnaround Time: [Signature]	
		0.1°C		Yes		Standard	
		0.4°C		No		Rush	
				No		Bacteria (only)	
				No		Sample Condition	
				No		Observed Temp. °C	
				No		Corrected Temp. °C	

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

Company Name: <u>Ensolium, LLC</u>		P.O. #:																
Project Manager: <u>Beezer Jennings</u>		Company: <u>Oxy USA Inc.</u>																
Address: <u>601 N Marientfeld Street, Suite 400</u>		Attn: <u>Wade Dietrich</u>																
City: <u>Midland</u>		State: <u>TX</u> Zip: <u>79701</u>																
Phone #: <u>210-240-8868</u>		City: <u>Midland</u>																
Project #: <u>0384417261</u>		State: <u>TX</u> Zip: <u>79701</u>																
Project Name: <u>SAGE 18 FEE A COM. #0014</u>		Phone #: <u>575-390-2828</u>																
Project Location: <u>LEA COUNTY</u>		Fax #:																
Sampler Name: <u>Uden Aguirre, Leandra</u>		PRESERV. SAMPLING																
FOR LAB USE ONLY																		
Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	BTEX 8021	TPH 8015	CHLORIDE 4500
71	P571	7	C	5										3/19/25	11:32	X	X	X
72	P572		C												11:34	X	X	X
73	P573														11:36	X	X	X
74	P574														11:38	X	X	X
75	P575														11:40	X	X	X
76	P576														11:42	X	X	X
77	P577														11:44	X	X	X
78	P578														11:46	X	X	X
79	P579														11:48	X	X	X
80	P580														11:50	X	X	X
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Relinquished By: <u>[Signature]</u> Date: <u>3/19/25</u> Time: <u>1:00</u> Received By: <u>[Signature]</u>																		
Delivered By: (Circle One) <u>UPS</u> Corrected Temp. °C <u>0.1</u> Sample Condition <u>Intact</u> CHECKED BY: <u>[Signature]</u> Turnaround Time: <u>140</u> Standard <u>X</u> Bacteria (only) Sample Condition <u>Intact</u> Thermometer ID # <u>113</u> Rush <u>X</u> Cool <u>Yes</u> Observed Temp. °C <u>10.3</u> Corrosion Factor <u>0.5</u> No <u>X</u> Corrected Temp. °C <u>10.3</u>																		

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

Company Name: Ensolium, LLC		P.O. #:																
Project Manager: Beech-Jennings, Smith & McKENZIE		Company: Oxy USA Inc.																
Address: 601 N Marland Street, Suite 400		Attn: Wade Dittich																
City: Midland	State: TX	Zip: 79701																
Phone #: 210-244-8888	703-3513445 Fax #: Smackegie, Ensolium, Co.	City:																
Project #: 0384417261	Project Owner:	State:	Zip:															
Project Name: SAGE 18 FEE & CON. #0014		Phone #: 575-390-2828																
Project Location: LEFT COUNTRY		Fax #:																
Sample Name: Uden Agura, Leandra																		
FOR LAB USE ONLY																		
Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	BTEX 8021	TPH 8015	CHLORIDE 4500
11851034	F581	7	C											3/19/25	11:52	X	X	X
81	F582		C												11:54	X	X	X
82	F583														11:56	X	X	X
83	F584														11:58	X	X	X
84	F585														12:00	X	X	X
85	F586														12:02	X	X	X
86	F587														12:04	X	X	X
87	F588														12:06	X	X	X
88	F589														12:08	X	X	X
89	F590														12:10	X	X	X
90																		

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Relinquished By: [Signature] Date: 3/19/25 Time: 12:00
Received By: Smackegie
Relinquished By: [Signature] Date: 3/19/25 Time: 12:00
Received By: [Signature]

Delivered By: (Circle One) Observed Temp. °C 0.12 Sample Condition Intact CHECKED BY: [Signature]
Sampler - UPS - Bus - Other: Corrected Temp. °C 0.42 Yes No No No

Turnaround Time: Standard 140 Rush 10.32 Bacteria (only) Sample Condition Intact Observed Temp. °C Corrected Temp. °C

Thermometer ID #113-10.32
Corrosion Factor: 0.0°C

REMARKS:

Verbal Result: ☐ Yes ☐ No ☐ Add'l Phone #:
All Results are emailed. Please provide Email address:

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



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

March 25, 2025

SAMANTHA MACKENZIE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: OSAGE 18 FEE A COM #001 H

Enclosed are the results of analyses for samples received by the laboratory on 03/19/25 17:22.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW 01 0-8' (H251635-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/21/2025	ND	1.81	90.4	2.00	2.22	
Toluene*	<0.050	0.050	03/21/2025	ND	2.00	99.8	2.00	3.87	
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.24	112	2.00	5.80	
Total Xylenes*	<0.150	0.150	03/21/2025	ND	6.73	112	6.00	6.22	
Total BTEX	<0.300	0.300	03/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/21/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2025	ND	210	105	200	3.00	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	203	102	200	6.74	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 104 % 44.4-145

Surrogate: 1-Chlorooctadecane 101 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW 02 0-8' (H251635-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	1.81	90.4	2.00	2.22		
Toluene*	<0.050	0.050	03/21/2025	ND	2.00	99.8	2.00	3.87		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.24	112	2.00	5.80		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	6.73	112	6.00	6.22		
Total BTEX	<0.300	0.300	03/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	03/21/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2025	ND	210	105	200	3.00	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	203	102	200	6.74	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 117 % 44.4-145

Surrogate: 1-Chlorooctadecane 116 % 40.6-153

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW 03 0-8' (H251635-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	1.81	90.4	2.00	2.22		
Toluene*	<0.050	0.050	03/21/2025	ND	2.00	99.8	2.00	3.87		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.24	112	2.00	5.80		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	6.73	112	6.00	6.22		
Total BTEx	<0.300	0.300	03/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	03/21/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2025	ND	210	105	200	3.00	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	203	102	200	6.74	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 106 % 44.4-145

Surrogate: 1-Chlorooctadecane 105 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW 04 0-8' (H251635-04)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	2.07	103	2.00	6.37		
Toluene*	<0.050	0.050	03/21/2025	ND	2.17	109	2.00	5.54		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.37	119	2.00	6.88		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	7.29	121	6.00	7.26		
Total BTX	<0.300	0.300	03/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 128 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	03/21/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2025	ND	210	105	200	3.00	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	203	102	200	6.74	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 105 % 44.4-145

Surrogate: 1-Chlorooctadecane 104 % 40.6-153

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW 05 0-10' (H251635-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	2.07	103	2.00	6.37		
Toluene*	<0.050	0.050	03/21/2025	ND	2.17	109	2.00	5.54		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.37	119	2.00	6.88		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	7.29	121	6.00	7.26		
Total BTEX	<0.300	0.300	03/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 126 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	416	16.0	03/21/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2025	ND	207	104	200	0.765	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	199	99.3	200	0.403	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 83.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 75.6 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW 06 0-10' (H251635-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	2.07	103	2.00	6.37		
Toluene*	<0.050	0.050	03/21/2025	ND	2.17	109	2.00	5.54		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.37	119	2.00	6.88		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	7.29	121	6.00	7.26		
Total BTEX	<0.300	0.300	03/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 126 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	576	16.0	03/21/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2025	ND	207	104	200	0.765	
DRO >C10-C28*	43.1	10.0	03/21/2025	ND	199	99.3	200	0.403	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 103 % 44.4-145

Surrogate: 1-Chlorooctadecane 101 % 40.6-153

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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW 07 0-10' (H251635-07)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	2.07	103	2.00	6.37		
Toluene*	<0.050	0.050	03/21/2025	ND	2.17	109	2.00	5.54		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.37	119	2.00	6.88		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	7.29	121	6.00	7.26		
Total BTEX	<0.300	0.300	03/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 129 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1460	16.0	03/24/2025	ND	400	100	400	7.69	QM-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	03/21/2025	ND	207	104	200	0.765	
DRO >C10-C28*	268	10.0	03/21/2025	ND	199	99.3	200	0.403	
EXT DRO >C28-C36	48.4	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 105 % 44.4-145

Surrogate: 1-Chlorooctadecane 108 % 40.6-153

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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW 08 0-10' (H251635-08)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	2.07	103	2.00	6.37		
Toluene*	<0.050	0.050	03/21/2025	ND	2.17	109	2.00	5.54		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.37	119	2.00	6.88		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	7.29	121	6.00	7.26		
Total BTEX	<0.300	0.300	03/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1440	16.0	03/24/2025	ND	400	100	400	7.69		

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	03/21/2025	ND	207	104	200	0.765	
DRO >C10-C28*	27.7	10.0	03/21/2025	ND	199	99.3	200	0.403	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 108 % 44.4-145

Surrogate: 1-Chlorooctadecane 106 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW 09 0-10' (H251635-09)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	2.07	103	2.00	6.37		
Toluene*	<0.050	0.050	03/21/2025	ND	2.17	109	2.00	5.54		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.37	119	2.00	6.88		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	7.29	121	6.00	7.26		
Total BTEX	<0.300	0.300	03/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	03/24/2025	ND	400	100	400	7.69		

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	03/21/2025	ND	207	104	200	0.765	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	199	99.3	200	0.403	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 106 % 44.4-145

Surrogate: 1-Chlorooctadecane 103 % 40.6-153

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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW 10 0-10' (H251635-10)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	2.07	103	2.00	6.37		
Toluene*	<0.050	0.050	03/21/2025	ND	2.17	109	2.00	5.54		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.37	119	2.00	6.88		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	7.29	121	6.00	7.26		
Total BTEx	<0.300	0.300	03/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/24/2025	ND	400	100	400	7.69		

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	03/21/2025	ND	207	104	200	0.765	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	199	99.3	200	0.403	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 105 % 44.4-145

Surrogate: 1-Chlorooctadecane 103 % 40.6-153

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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW 11 0-10' (H251635-11)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	2.07	103	2.00	6.37		
Toluene*	<0.050	0.050	03/21/2025	ND	2.17	109	2.00	5.54		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.37	119	2.00	6.88		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	7.29	121	6.00	7.26		
Total BTEX	<0.300	0.300	03/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 121 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	03/24/2025	ND	400	100	400	7.69		

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	03/21/2025	ND	207	104	200	0.765	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	199	99.3	200	0.403	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 104 % 44.4-145

Surrogate: 1-Chlorooctadecane 101 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW 12 0-10' (H251635-12)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	2.07	103	2.00	6.37		
Toluene*	<0.050	0.050	03/21/2025	ND	2.17	109	2.00	5.54		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.37	119	2.00	6.88		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	7.29	121	6.00	7.26		
Total BTEX	<0.300	0.300	03/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/24/2025	ND	400	100	400	7.69		

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	03/21/2025	ND	207	104	200	0.765	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	199	99.3	200	0.403	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 103 % 44.4-145

Surrogate: 1-Chlorooctadecane 99.5 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW 13 0-10' (H251635-13)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	2.07	103	2.00	6.37		
Toluene*	<0.050	0.050	03/21/2025	ND	2.17	109	2.00	5.54		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.37	119	2.00	6.88		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	7.29	121	6.00	7.26		
Total BTEX	<0.300	0.300	03/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	03/24/2025	ND	400	100	400	7.69	

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	03/21/2025	ND	207	104	200	0.765	
DRO >C10-C28*	17.2	10.0	03/21/2025	ND	199	99.3	200	0.403	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 108 % 44.4-145

Surrogate: 1-Chlorooctadecane 106 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW 14 0-10' (H251635-14)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	2.07	103	2.00	6.37		
Toluene*	<0.050	0.050	03/21/2025	ND	2.17	109	2.00	5.54		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.37	119	2.00	6.88		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	7.29	121	6.00	7.26		
Total BTEx	<0.300	0.300	03/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	03/24/2025	ND	400	100	400	7.69		

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	03/21/2025	ND	207	104	200	0.765	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	199	99.3	200	0.403	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 104 % 44.4-145

Surrogate: 1-Chlorooctadecane 101 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW 15 0-10' (H251635-15)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	2.07	103	2.00	6.37		
Toluene*	<0.050	0.050	03/21/2025	ND	2.17	109	2.00	5.54		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.37	119	2.00	6.88		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	7.29	121	6.00	7.26		
Total BTEx	<0.300	0.300	03/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	03/24/2025	ND	400	100	400	7.69		

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	03/21/2025	ND	207	104	200	0.765	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	199	99.3	200	0.403	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 105 % 44.4-145

Surrogate: 1-Chlorooctadecane 102 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW 16 0-10' (H251635-16)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	2.07	103	2.00	6.37		
Toluene*	<0.050	0.050	03/21/2025	ND	2.17	109	2.00	5.54		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.37	119	2.00	6.88		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	7.29	121	6.00	7.26		
Total BTEx	<0.300	0.300	03/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1470	16.0	03/24/2025	ND	400	100	400	7.69		

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	03/21/2025	ND	207	104	200	0.765	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	199	99.3	200	0.403	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 109 % 44.4-145

Surrogate: 1-Chlorooctadecane 106 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW 17 0-10' (H251635-17)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	2.07	103	2.00	6.37		
Toluene*	<0.050	0.050	03/21/2025	ND	2.17	109	2.00	5.54		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.37	119	2.00	6.88		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	7.29	121	6.00	7.26		
Total BTEX	<0.300	0.300	03/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 126 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/24/2025	ND	400	100	400	7.69		

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	03/21/2025	ND	207	104	200	0.765	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	199	99.3	200	0.403	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 84.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 79.2 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW 18 0-10' (H251635-18)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	2.07	103	2.00	6.37		
Toluene*	<0.050	0.050	03/21/2025	ND	2.17	109	2.00	5.54		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.37	119	2.00	6.88		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	7.29	121	6.00	7.26		
Total BTEx	<0.300	0.300	03/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	03/24/2025	ND	400	100	400	7.69		

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	03/21/2025	ND	207	104	200	0.765	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	199	99.3	200	0.403	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 96.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 92.9 % 40.6-153

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Analytical Results For:

ENSOLUM
 SAMANTHA MACKENZIE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received: 03/19/2025
 Reported: 03/25/2025
 Project Name: OSAGE 18 FEE A COM #001 H
 Project Number: 03B1417261
 Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW 19 0-7' (H251635-19)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	2.07	103	2.00	6.37		
Toluene*	<0.050	0.050	03/21/2025	ND	2.17	109	2.00	5.54		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.37	119	2.00	6.88		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	7.29	121	6.00	7.26		
Total BTEX	<0.300	0.300	03/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 122 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	03/24/2025	ND	400	100	400	7.69		

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	03/21/2025	ND	207	104	200	0.765	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	199	99.3	200	0.403	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 98.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 95.4 % 40.6-153

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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW 20 0-7' (H251635-20)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	2.07	103	2.00	6.37		
Toluene*	<0.050	0.050	03/21/2025	ND	2.17	109	2.00	5.54		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.37	119	2.00	6.88		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	7.29	121	6.00	7.26		
Total BTEX	<0.300	0.300	03/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 121 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	03/24/2025	ND	400	100	400	7.69		

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	03/21/2025	ND	207	104	200	0.765	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	199	99.3	200	0.403	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 97.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 95.1 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW 21 0-7' (H251635-21)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	2.07	103	2.00	6.37		
Toluene*	<0.050	0.050	03/21/2025	ND	2.17	109	2.00	5.54		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.37	119	2.00	6.88		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	7.29	121	6.00	7.26		
Total BTEx	<0.300	0.300	03/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	688	16.0	03/24/2025	ND	400	100	400	7.69		

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	03/21/2025	ND	207	104	200	0.765	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	199	99.3	200	0.403	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 104 % 44.4-145

Surrogate: 1-Chlorooctadecane 101 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW 22 0-7' (H251635-22)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	2.07	103	2.00	6.37		
Toluene*	<0.050	0.050	03/21/2025	ND	2.17	109	2.00	5.54		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.37	119	2.00	6.88		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	7.29	121	6.00	7.26		
Total BTEx	<0.300	0.300	03/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	03/24/2025	ND	400	100	400	7.69	

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	03/21/2025	ND	207	104	200	0.765	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	199	99.3	200	0.403	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 97.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 93.1 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW 23 0-7' (H251635-23)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	2.07	103	2.00	6.37		
Toluene*	<0.050	0.050	03/21/2025	ND	2.17	109	2.00	5.54		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.37	119	2.00	6.88		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	7.29	121	6.00	7.26		
Total BTX	<0.300	0.300	03/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	384	16.0	03/24/2025	ND	400	100	400	7.69		

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	03/21/2025	ND	207	104	200	0.765	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	199	99.3	200	0.403	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 92.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 89.1 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW 24 0-7' (H251635-24)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	1.99	99.7	2.00	1.09	QM-07	
Toluene*	<0.050	0.050	03/21/2025	ND	2.06	103	2.00	0.616		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.27	114	2.00	1.91		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	6.73	112	6.00	1.28		
Total BTX	<0.300	0.300	03/21/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1950	16.0	03/24/2025	ND	400	100	400	7.69		

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	03/21/2025	ND	207	104	200	0.765	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	199	99.3	200	0.403	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 86.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 81.4 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW 25 0-7' (H251635-25)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/21/2025	ND	1.99	99.7	2.00	1.09	
Toluene*	<0.050	0.050	03/21/2025	ND	2.06	103	2.00	0.616	
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.27	114	2.00	1.91	
Total Xylenes*	<0.150	0.150	03/21/2025	ND	6.73	112	6.00	1.28	
Total BTEx	<0.300	0.300	03/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	03/24/2025	ND	400	100	400	7.69	

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	03/21/2025	ND	205	102	200	1.04	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	207	104	200	3.47	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 87.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 91.8 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW 26 0-7' (H251635-26)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	1.99	99.7	2.00	1.09		
Toluene*	<0.050	0.050	03/21/2025	ND	2.06	103	2.00	0.616		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.27	114	2.00	1.91		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	6.73	112	6.00	1.28		
Total BTEx	<0.300	0.300	03/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	496	16.0	03/24/2025	ND	400	100	400	7.69		

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	03/21/2025	ND	205	102	200	1.04	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	207	104	200	3.47	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 104 % 44.4-145

Surrogate: 1-Chlorooctadecane 102 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW 27 0-7' (H251635-27)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	1.99	99.7	2.00	1.09		
Toluene*	<0.050	0.050	03/21/2025	ND	2.06	103	2.00	0.616		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.27	114	2.00	1.91		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	6.73	112	6.00	1.28		
Total BTEX	<0.300	0.300	03/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	672	16.0	03/24/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2025	ND	205	102	200	1.04	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	207	104	200	3.47	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 98.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 97.6 % 40.6-153

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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW 28 0-7' (H251635-28)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	1.99	99.7	2.00	1.09		
Toluene*	<0.050	0.050	03/21/2025	ND	2.06	103	2.00	0.616		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.27	114	2.00	1.91		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	6.73	112	6.00	1.28		
Total BTEx	<0.300	0.300	03/21/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	03/24/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2025	ND	205	102	200	1.04	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	207	104	200	3.47	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 70.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 66.5 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW 29 0-7' (H251635-29)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	1.99	99.7	2.00	1.09		
Toluene*	<0.050	0.050	03/21/2025	ND	2.06	103	2.00	0.616		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.27	114	2.00	1.91		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	6.73	112	6.00	1.28		
Total BTEx	<0.300	0.300	03/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	03/24/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2025	ND	205	102	200	1.04	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	207	104	200	3.47	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 92.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 88.4 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW 30 0-7' (H251635-30)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	1.99	99.7	2.00	1.09		
Toluene*	<0.050	0.050	03/21/2025	ND	2.06	103	2.00	0.616		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.27	114	2.00	1.91		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	6.73	112	6.00	1.28		
Total BTEx	<0.300	0.300	03/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	03/24/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2025	ND	205	102	200	1.04	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	207	104	200	3.47	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 100 % 44.4-145

Surrogate: 1-Chlorooctadecane 98.1 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW 31 0-7' (H251635-31)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	1.99	99.7	2.00	1.09		
Toluene*	<0.050	0.050	03/21/2025	ND	2.06	103	2.00	0.616		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.27	114	2.00	1.91		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	6.73	112	6.00	1.28		
Total BTEX	<0.300	0.300	03/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	03/24/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2025	ND	205	102	200	1.04	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	207	104	200	3.47	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 96.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 97.1 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW 32 0-7' (H251635-32)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	1.99	99.7	2.00	1.09		
Toluene*	<0.050	0.050	03/21/2025	ND	2.06	103	2.00	0.616		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.27	114	2.00	1.91		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	6.73	112	6.00	1.28		
Total BTEx	<0.300	0.300	03/21/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	03/24/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2025	ND	205	102	200	1.04	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	207	104	200	3.47	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 97.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 93.4 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW 33 0-7' (H251635-33)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	1.99	99.7	2.00	1.09		
Toluene*	<0.050	0.050	03/21/2025	ND	2.06	103	2.00	0.616		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.27	114	2.00	1.91		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	6.73	112	6.00	1.28		
Total BTEX	<0.300	0.300	03/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	800	16.0	03/24/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2025	ND	205	102	200	1.04	
DRO >C10-C28*	17.2	10.0	03/21/2025	ND	207	104	200	3.47	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 95.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 92.4 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/19/2025
Reported: 03/25/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - LEA CO., NM

Sampling Date: 03/19/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW 34 0-7' (H251635-34)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/21/2025	ND	1.99	99.7	2.00	1.09		
Toluene*	<0.050	0.050	03/21/2025	ND	2.06	103	2.00	0.616		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.27	114	2.00	1.91		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	6.73	112	6.00	1.28		
Total BTEx	<0.300	0.300	03/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	03/24/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2025	ND	205	102	200	1.04	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	207	104	200	3.47	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 95.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 93.9 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Ensolum, LLC				P.O. #:
Project Manager: Beate Deming-Smith MCKENZIE				Company: Oxy USA Inc.
Address: 601 N Marlenfeld Street, Suite 400				Attn: Wade Dittich
City: Midland	State: TX	Zip: 79701	Address:	
Phone #: 210-240-8888 703-3573445 Fax #: smackenzie@ensolum.com		City:	State:	Zip:
Project #: 03B1417261		Project Owner:		Phone #: 575-390-2828
Project Location: LEA COUNTY				Fax #:
Sample Name: Uden Aguga, Leandra				

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP. # CONTAINERS	MATRIX							PRESERV.	SAMPLING	DATE	TIME	BTX 8021	TPH 8015	CHLORIDE 4500
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:							
H25U25	SW011	0 - 10	C			S				X		3/19/25	1320	X	X	X	
13	SW12	0 - 10	C									1322	1322	X	X	X	
13	SW13	0 - 10										1324	1324	X	X	X	
14	SW14	0 - 10										1326	1326	X	X	X	
15	SW15	0 - 10										1328	1328	X	X	X	
16	SW16	0 - 10										1330	1330	X	X	X	
17	SW17	0 - 10										1332	1332	X	X	X	
18	SW18	0 - 10										1334	1334	X	X	X	
19	SW19	0 - 7										1336	1336	X	X	X	
20	SW20	0 - 7	C			S				X		3/19/25	1338	X	X	X	

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Relinquished By: [Signature]	Date: 3/19/25	Received By: Spectiguesy
Retrieved By: [Signature]	Date: 3/19/25	Time: nae

Delivered By: (Circle One)
☒ UPS ☐ Bus ☐ Other

Corrected Temp.: °C 0.4°C **Sample Condition:** Cool Intact Yes No **CHECKED BY:** [Initials] 82

Turnaround Time: Standard Rush ☒ Bacteria (only) Sample Condition ☒
Thermometer ID #113 70.3°C ☐ Cool Intact Yes No ☐ Observed Temp. °C
Corrosion Factor: .95°C ☐ No ☐ Corrected Temp. °C

Verbal Result: ☐ Yes ☐ No **Add'l Phone #:**
All Results are emailed. Please provide Email address:

REMARKS:

+ Cardinal cannot accept verbal changes. Please email changes to celej.keene@cardinallabsnm.com



ANALYSIS REQUEST

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ANALYSIS REQUEST

Page 40 of 40



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

April 14, 2025

SAMANTHA MACKENZIE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: OSAGE 18 FEE A COM #001 H

Enclosed are the results of analyses for samples received by the laboratory on 04/08/25 15:52.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 04/08/2025
Reported: 04/14/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - EDDY CO., NM

Sampling Date: 04/08/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS - 01 10' (H252102-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/10/2025	ND	2.22	111	2.00	2.11	
Toluene*	<0.050	0.050	04/10/2025	ND	2.26	113	2.00	2.19	
Ethylbenzene*	<0.050	0.050	04/10/2025	ND	2.14	107	2.00	2.13	
Total Xylenes*	<0.150	0.150	04/10/2025	ND	6.40	107	6.00	2.20	
Total BTEX	<0.300	0.300	04/10/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	04/09/2025	ND	432	108	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/09/2025	ND	204	102	200	0.269	
DRO >C10-C28*	20.1	10.0	04/09/2025	ND	190	95.2	200	0.296	
EXT DRO >C28-C36	<10.0	10.0	04/09/2025	ND					

Surrogate: 1-Chlorooctane 96.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 92.5 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 04/08/2025
Reported: 04/14/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - EDDY CO., NM

Sampling Date: 04/08/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS - 02 10' (H252102-02)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/10/2025	ND	2.22	111	2.00	2.11		
Toluene*	<0.050	0.050	04/10/2025	ND	2.26	113	2.00	2.19		
Ethylbenzene*	<0.050	0.050	04/10/2025	ND	2.14	107	2.00	2.13		
Total Xylenes*	<0.150	0.150	04/10/2025	ND	6.40	107	6.00	2.20		
Total BTX	<0.300	0.300	04/10/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-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	04/09/2025	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/09/2025	ND	204	102	200	0.269	
DRO >C10-C28*	<10.0	10.0	04/09/2025	ND	190	95.2	200	0.296	
EXT DRO >C28-C36	<10.0	10.0	04/09/2025	ND					

Surrogate: 1-Chlorooctane 95.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 91.9 % 40.6-153

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 04/08/2025
Reported: 04/14/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - EDDY CO., NM

Sampling Date: 04/08/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS - 03 10' (H252102-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/10/2025	ND	2.22	111	2.00	2.11		
Toluene*	<0.050	0.050	04/10/2025	ND	2.26	113	2.00	2.19		
Ethylbenzene*	<0.050	0.050	04/10/2025	ND	2.14	107	2.00	2.13		
Total Xylenes*	<0.150	0.150	04/10/2025	ND	6.40	107	6.00	2.20		
Total BTEX	<0.300	0.300	04/10/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

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	04/09/2025	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/09/2025	ND	204	102	200	0.269	
DRO >C10-C28*	<10.0	10.0	04/09/2025	ND	190	95.2	200	0.296	
EXT DRO >C28-C36	<10.0	10.0	04/09/2025	ND					

Surrogate: 1-Chlorooctane 98.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 94.6 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 04/08/2025
Reported: 04/14/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - EDDY CO., NM

Sampling Date: 04/08/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS - 04 10' (H252102-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/10/2025	ND	2.22	111	2.00	2.11		
Toluene*	<0.050	0.050	04/10/2025	ND	2.26	113	2.00	2.19		
Ethylbenzene*	<0.050	0.050	04/10/2025	ND	2.14	107	2.00	2.13		
Total Xylenes*	<0.150	0.150	04/10/2025	ND	6.40	107	6.00	2.20		
Total BTEx	<0.300	0.300	04/10/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-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	04/09/2025	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/09/2025	ND	200	100	200	1.04	
DRO >C10-C28*	<10.0	10.0	04/09/2025	ND	196	97.9	200	0.758	
EXT DRO >C28-C36	<10.0	10.0	04/09/2025	ND					

Surrogate: 1-Chlorooctane 95.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 97.6 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 04/08/2025
Reported: 04/14/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - EDDY CO., NM

Sampling Date: 04/08/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS - 13 8' (H252102-05)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/10/2025	ND	2.22	111	2.00	2.11	
Toluene*	<0.050	0.050	04/10/2025	ND	2.26	113	2.00	2.19	
Ethylbenzene*	<0.050	0.050	04/10/2025	ND	2.14	107	2.00	2.13	
Total Xylenes*	<0.150	0.150	04/10/2025	ND	6.40	107	6.00	2.20	
Total BTEX	<0.300	0.300	04/10/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

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	04/09/2025	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/09/2025	ND	200	100	200	1.04	
DRO >C10-C28*	<10.0	10.0	04/09/2025	ND	196	97.9	200	0.758	
EXT DRO >C28-C36	<10.0	10.0	04/09/2025	ND					

Surrogate: 1-Chlorooctane 94.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 96.4 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 04/08/2025
Reported: 04/14/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - EDDY CO., NM

Sampling Date: 04/08/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS - 22 10' (H252102-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/10/2025	ND	2.22	111	2.00	2.11		
Toluene*	<0.050	0.050	04/10/2025	ND	2.26	113	2.00	2.19		
Ethylbenzene*	<0.050	0.050	04/10/2025	ND	2.14	107	2.00	2.13		
Total Xylenes*	<0.150	0.150	04/10/2025	ND	6.40	107	6.00	2.20		
Total BTEX	<0.300	0.300	04/10/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

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	04/09/2025	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/09/2025	ND	200	100	200	1.04	
DRO >C10-C28*	<10.0	10.0	04/09/2025	ND	196	97.9	200	0.758	
EXT DRO >C28-C36	<10.0	10.0	04/09/2025	ND					

Surrogate: 1-Chlorooctane 95.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 94.5 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 04/08/2025
Reported: 04/14/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - EDDY CO., NM

Sampling Date: 04/08/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS - 23 10' (H252102-07)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/10/2025	ND	2.22	111	2.00	2.11		
Toluene*	<0.050	0.050	04/10/2025	ND	2.26	113	2.00	2.19		
Ethylbenzene*	<0.050	0.050	04/10/2025	ND	2.14	107	2.00	2.13		
Total Xylenes*	<0.150	0.150	04/10/2025	ND	6.40	107	6.00	2.20		
Total BTEX	<0.300	0.300	04/10/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

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	04/09/2025	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/09/2025	ND	200	100	200	1.04	
DRO >C10-C28*	<10.0	10.0	04/09/2025	ND	196	97.9	200	0.758	
EXT DRO >C28-C36	<10.0	10.0	04/09/2025	ND					

Surrogate: 1-Chlorooctane 89.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 87.9 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 04/08/2025
Reported: 04/14/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - EDDY CO., NM

Sampling Date: 04/08/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS - 24 10' (H252102-08)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/10/2025	ND	2.22	111	2.00	2.11		
Toluene*	<0.050	0.050	04/10/2025	ND	2.26	113	2.00	2.19		
Ethylbenzene*	<0.050	0.050	04/10/2025	ND	2.14	107	2.00	2.13		
Total Xylenes*	<0.150	0.150	04/10/2025	ND	6.40	107	6.00	2.20		
Total BTEx	<0.300	0.300	04/10/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-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	04/09/2025	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/09/2025	ND	200	100	200	1.04	
DRO >C10-C28*	<10.0	10.0	04/09/2025	ND	196	97.9	200	0.758	
EXT DRO >C28-C36	<10.0	10.0	04/09/2025	ND					

Surrogate: 1-Chlorooctane 87.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 86.6 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 04/08/2025
Reported: 04/14/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - EDDY CO., NM

Sampling Date: 04/08/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS - 32 10' (H252102-09)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/10/2025	ND	2.22	111	2.00	2.11		
Toluene*	<0.050	0.050	04/10/2025	ND	2.26	113	2.00	2.19		
Ethylbenzene*	<0.050	0.050	04/10/2025	ND	2.14	107	2.00	2.13		
Total Xylenes*	<0.150	0.150	04/10/2025	ND	6.40	107	6.00	2.20		
Total BTX	<0.300	0.300	04/10/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-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	04/09/2025	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/09/2025	ND	200	100	200	1.04	
DRO >C10-C28*	<10.0	10.0	04/09/2025	ND	196	97.9	200	0.758	
EXT DRO >C28-C36	<10.0	10.0	04/09/2025	ND					

Surrogate: 1-Chlorooctane 93.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 103 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 04/08/2025
Reported: 04/14/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - EDDY CO., NM

Sampling Date: 04/08/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS - 37 10' (H252102-10)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/10/2025	ND	2.22	111	2.00	2.11		
Toluene*	<0.050	0.050	04/10/2025	ND	2.26	113	2.00	2.19		
Ethylbenzene*	<0.050	0.050	04/10/2025	ND	2.14	107	2.00	2.13		
Total Xylenes*	<0.150	0.150	04/10/2025	ND	6.40	107	6.00	2.20		
Total BTEx	<0.300	0.300	04/10/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	04/09/2025	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/09/2025	ND	200	100	200	1.04	
DRO >C10-C28*	<10.0	10.0	04/09/2025	ND	196	97.9	200	0.758	
EXT DRO >C28-C36	<10.0	10.0	04/09/2025	ND					

Surrogate: 1-Chlorooctane 86.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 88.0 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 04/08/2025
Reported: 04/14/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - EDDY CO., NM

Sampling Date: 04/08/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS - 39 10' (H252102-11)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/10/2025	ND	2.22	111	2.00	2.11		
Toluene*	<0.050	0.050	04/10/2025	ND	2.26	113	2.00	2.19		
Ethylbenzene*	<0.050	0.050	04/10/2025	ND	2.14	107	2.00	2.13		
Total Xylenes*	<0.150	0.150	04/10/2025	ND	6.40	107	6.00	2.20		
Total BTX	<0.300	0.300	04/10/2025	ND						

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

Chloride, SM4500CI-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	04/09/2025	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/09/2025	ND	200	100	200	1.04	
DRO >C10-C28*	<10.0	10.0	04/09/2025	ND	196	97.9	200	0.758	
EXT DRO >C28-C36	<10.0	10.0	04/09/2025	ND					

Surrogate: 1-Chlorooctane 87.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 89.3 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 04/08/2025
Reported: 04/14/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - EDDY CO., NM

Sampling Date: 04/08/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS - 40 10' (H252102-12)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/10/2025	ND	2.22	111	2.00	2.11		
Toluene*	<0.050	0.050	04/10/2025	ND	2.26	113	2.00	2.19		
Ethylbenzene*	<0.050	0.050	04/10/2025	ND	2.14	107	2.00	2.13		
Total Xylenes*	<0.150	0.150	04/10/2025	ND	6.40	107	6.00	2.20		
Total BTEX	<0.300	0.300	04/10/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

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	04/09/2025	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/09/2025	ND	200	100	200	1.04	
DRO >C10-C28*	<10.0	10.0	04/09/2025	ND	196	97.9	200	0.758	
EXT DRO >C28-C36	<10.0	10.0	04/09/2025	ND					

Surrogate: 1-Chlorooctane 91.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 93.3 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 04/08/2025
Reported: 04/14/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - EDDY CO., NM

Sampling Date: 04/08/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS - 44 10' (H252102-13)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/10/2025	ND	2.22	111	2.00	2.11		
Toluene*	<0.050	0.050	04/10/2025	ND	2.26	113	2.00	2.19		
Ethylbenzene*	<0.050	0.050	04/10/2025	ND	2.14	107	2.00	2.13		
Total Xylenes*	<0.150	0.150	04/10/2025	ND	6.40	107	6.00	2.20		
Total BTEx	<0.300	0.300	04/10/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	04/09/2025	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/09/2025	ND	200	100	200	1.04	
DRO >C10-C28*	<10.0	10.0	04/09/2025	ND	196	97.9	200	0.758	
EXT DRO >C28-C36	<10.0	10.0	04/09/2025	ND					

Surrogate: 1-Chlorooctane 84.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 85.5 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 04/08/2025
Reported: 04/14/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - EDDY CO., NM

Sampling Date: 04/08/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS - 45 10' (H252102-14)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/09/2025	ND	1.62	80.9	2.00	4.97		
Toluene*	<0.050	0.050	04/09/2025	ND	1.84	92.2	2.00	1.58		
Ethylbenzene*	<0.050	0.050	04/09/2025	ND	1.87	93.6	2.00	0.348		
Total Xylenes*	<0.150	0.150	04/09/2025	ND	6.15	103	6.00	0.319		
Total BTEX	<0.300	0.300	04/09/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

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	04/09/2025	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/09/2025	ND	200	100	200	1.04	
DRO >C10-C28*	<10.0	10.0	04/09/2025	ND	196	97.9	200	0.758	
EXT DRO >C28-C36	<10.0	10.0	04/09/2025	ND					

Surrogate: 1-Chlorooctane 89.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 91.2 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 04/08/2025
Reported: 04/14/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - EDDY CO., NM

Sampling Date: 04/08/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS - 49 10' (H252102-15)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/09/2025	ND	1.62	80.9	2.00	4.97		
Toluene*	<0.050	0.050	04/09/2025	ND	1.84	92.2	2.00	1.58		
Ethylbenzene*	<0.050	0.050	04/09/2025	ND	1.87	93.6	2.00	0.348		
Total Xylenes*	<0.150	0.150	04/09/2025	ND	6.15	103	6.00	0.319		
Total BTEX	<0.300	0.300	04/09/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

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	04/09/2025	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/09/2025	ND	200	100	200	1.04	
DRO >C10-C28*	<10.0	10.0	04/09/2025	ND	196	97.9	200	0.758	
EXT DRO >C28-C36	<10.0	10.0	04/09/2025	ND					

Surrogate: 1-Chlorooctane 90.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 92.7 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 04/08/2025
Reported: 04/14/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - EDDY CO., NM

Sampling Date: 04/08/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS - 57 10' (H252102-16)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/09/2025	ND	1.62	80.9	2.00	4.97		
Toluene*	<0.050	0.050	04/09/2025	ND	1.84	92.2	2.00	1.58		
Ethylbenzene*	<0.050	0.050	04/09/2025	ND	1.87	93.6	2.00	0.348		
Total Xylenes*	<0.150	0.150	04/09/2025	ND	6.15	103	6.00	0.319		
Total BTEX	<0.300	0.300	04/09/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 126 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	04/09/2025	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/09/2025	ND	200	100	200	1.04	
DRO >C10-C28*	<10.0	10.0	04/09/2025	ND	196	97.9	200	0.758	
EXT DRO >C28-C36	<10.0	10.0	04/09/2025	ND					

Surrogate: 1-Chlorooctane 89.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 89.4 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 04/08/2025
Reported: 04/14/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - EDDY CO., NM

Sampling Date: 04/08/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS - 70 7' (H252102-17)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/09/2025	ND	1.62	80.9	2.00	4.97		
Toluene*	<0.050	0.050	04/09/2025	ND	1.84	92.2	2.00	1.58		
Ethylbenzene*	<0.050	0.050	04/09/2025	ND	1.87	93.6	2.00	0.348		
Total Xylenes*	<0.150	0.150	04/09/2025	ND	6.15	103	6.00	0.319		
Total BTEX	<0.300	0.300	04/09/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 129 % 71.5-134

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	04/09/2025	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/09/2025	ND	200	100	200	1.04	
DRO >C10-C28*	<10.0	10.0	04/09/2025	ND	196	97.9	200	0.758	
EXT DRO >C28-C36	<10.0	10.0	04/09/2025	ND					

Surrogate: 1-Chlorooctane 86.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 89.7 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 04/08/2025
Reported: 04/14/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - EDDY CO., NM

Sampling Date: 04/08/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS - 71 7' (H252102-18)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/09/2025	ND	1.62	80.9	2.00	4.97		
Toluene*	<0.050	0.050	04/09/2025	ND	1.84	92.2	2.00	1.58		
Ethylbenzene*	<0.050	0.050	04/09/2025	ND	1.87	93.6	2.00	0.348		
Total Xylenes*	<0.150	0.150	04/09/2025	ND	6.15	103	6.00	0.319		
Total BTEX	<0.300	0.300	04/09/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

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	04/09/2025	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/09/2025	ND	200	100	200	1.04	
DRO >C10-C28*	<10.0	10.0	04/09/2025	ND	196	97.9	200	0.758	
EXT DRO >C28-C36	<10.0	10.0	04/09/2025	ND					

Surrogate: 1-Chlorooctane 92.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 94.7 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 04/08/2025
Reported: 04/14/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - EDDY CO., NM

Sampling Date: 04/08/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS - 72 7' (H252102-19)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/09/2025	ND	1.62	80.9	2.00	4.97		
Toluene*	<0.050	0.050	04/09/2025	ND	1.84	92.2	2.00	1.58		
Ethylbenzene*	<0.050	0.050	04/09/2025	ND	1.87	93.6	2.00	0.348		
Total Xylenes*	<0.150	0.150	04/09/2025	ND	6.15	103	6.00	0.319		
Total BTEX	<0.300	0.300	04/09/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

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	04/09/2025	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/09/2025	ND	200	100	200	1.04	
DRO >C10-C28*	<10.0	10.0	04/09/2025	ND	196	97.9	200	0.758	
EXT DRO >C28-C36	<10.0	10.0	04/09/2025	ND					

Surrogate: 1-Chlorooctane 92.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 92.1 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 04/08/2025
Reported: 04/14/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - EDDY CO., NM

Sampling Date: 04/08/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS - 74 7' (H252102-20)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/09/2025	ND	1.62	80.9	2.00	4.97		
Toluene*	<0.050	0.050	04/09/2025	ND	1.84	92.2	2.00	1.58		
Ethylbenzene*	<0.050	0.050	04/09/2025	ND	1.87	93.6	2.00	0.348		
Total Xylenes*	<0.150	0.150	04/09/2025	ND	6.15	103	6.00	0.319		
Total BTEX	<0.300	0.300	04/09/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	04/09/2025	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/09/2025	ND	200	100	200	1.04	
DRO >C10-C28*	<10.0	10.0	04/09/2025	ND	196	97.9	200	0.758	
EXT DRO >C28-C36	<10.0	10.0	04/09/2025	ND					

Surrogate: 1-Chlorooctane 89.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 91.9 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 04/08/2025
Reported: 04/14/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - EDDY CO., NM

Sampling Date: 04/08/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS - 75 7' (H252102-21)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/09/2025	ND	1.62	80.9	2.00	4.97		
Toluene*	<0.050	0.050	04/09/2025	ND	1.84	92.2	2.00	1.58		
Ethylbenzene*	<0.050	0.050	04/09/2025	ND	1.87	93.6	2.00	0.348		
Total Xylenes*	<0.150	0.150	04/09/2025	ND	6.15	103	6.00	0.319		
Total BTEX	<0.300	0.300	04/09/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	04/09/2025	ND	448	112	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/09/2025	ND	200	100	200	1.04	
DRO >C10-C28*	<10.0	10.0	04/09/2025	ND	196	97.9	200	0.758	
EXT DRO >C28-C36	<10.0	10.0	04/09/2025	ND					

Surrogate: 1-Chlorooctane 92.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 94.3 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 04/08/2025
Reported: 04/14/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - EDDY CO., NM

Sampling Date: 04/08/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS - 76 7' (H252102-22)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/09/2025	ND	1.62	80.9	2.00	4.97		
Toluene*	<0.050	0.050	04/09/2025	ND	1.84	92.2	2.00	1.58		
Ethylbenzene*	<0.050	0.050	04/09/2025	ND	1.87	93.6	2.00	0.348		
Total Xylenes*	<0.150	0.150	04/09/2025	ND	6.15	103	6.00	0.319		
Total BTEX	<0.300	0.300	04/09/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/09/2025	ND	448	112	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/09/2025	ND	200	100	200	1.04	
DRO >C10-C28*	<10.0	10.0	04/09/2025	ND	196	97.9	200	0.758	
EXT DRO >C28-C36	<10.0	10.0	04/09/2025	ND					

Surrogate: 1-Chlorooctane 89.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 90.3 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 04/08/2025
Reported: 04/14/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - EDDY CO., NM

Sampling Date: 04/08/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS - 84 7' (H252102-23)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/09/2025	ND	1.62	80.9	2.00	4.97		
Toluene*	<0.050	0.050	04/09/2025	ND	1.84	92.2	2.00	1.58		
Ethylbenzene*	<0.050	0.050	04/09/2025	ND	1.87	93.6	2.00	0.348		
Total Xylenes*	<0.150	0.150	04/09/2025	ND	6.15	103	6.00	0.319		
Total BTX	<0.300	0.300	04/09/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 126 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/09/2025	ND	448	112	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/09/2025	ND	200	100	200	1.04	
DRO >C10-C28*	<10.0	10.0	04/09/2025	ND	196	97.9	200	0.758	
EXT DRO >C28-C36	<10.0	10.0	04/09/2025	ND					

Surrogate: 1-Chlorooctane 74.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 76.5 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 04/08/2025
Reported: 04/14/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - EDDY CO., NM

Sampling Date: 04/08/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS - 85 7' (H252102-24)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/09/2025	ND	1.62	80.9	2.00	4.97		
Toluene*	<0.050	0.050	04/09/2025	ND	1.84	92.2	2.00	1.58		
Ethylbenzene*	<0.050	0.050	04/09/2025	ND	1.87	93.6	2.00	0.348		
Total Xylenes*	<0.150	0.150	04/09/2025	ND	6.15	103	6.00	0.319		
Total BTEX	<0.300	0.300	04/09/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	04/09/2025	ND	448	112	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/09/2025	ND	196	98.1	200	0.0597	
DRO >C10-C28*	<10.0	10.0	04/09/2025	ND	202	101	200	0.322	
EXT DRO >C28-C36	<10.0	10.0	04/09/2025	ND					

Surrogate: 1-Chlorooctane 97.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 94.4 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 04/08/2025
Reported: 04/14/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - EDDY CO., NM

Sampling Date: 04/08/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS - 86 7' (H252102-25)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/09/2025	ND	1.62	80.9	2.00	4.97		
Toluene*	<0.050	0.050	04/09/2025	ND	1.84	92.2	2.00	1.58		
Ethylbenzene*	<0.050	0.050	04/09/2025	ND	1.87	93.6	2.00	0.348		
Total Xylenes*	<0.150	0.150	04/09/2025	ND	6.15	103	6.00	0.319		
Total BTEX	<0.300	0.300	04/09/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	04/09/2025	ND	448	112	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/09/2025	ND	196	98.1	200	0.0597	
DRO >C10-C28*	<10.0	10.0	04/09/2025	ND	202	101	200	0.322	
EXT DRO >C28-C36	<10.0	10.0	04/09/2025	ND					

Surrogate: 1-Chlorooctane 92.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 88.6 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 04/08/2025
Reported: 04/14/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - EDDY CO., NM

Sampling Date: 04/08/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW - 07 0-10' (H252102-26)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/09/2025	ND	1.62	80.9	2.00	4.97		
Toluene*	<0.050	0.050	04/09/2025	ND	1.84	92.2	2.00	1.58		
Ethylbenzene*	<0.050	0.050	04/09/2025	ND	1.87	93.6	2.00	0.348		
Total Xylenes*	<0.150	0.150	04/09/2025	ND	6.15	103	6.00	0.319		
Total BTX	<0.300	0.300	04/09/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 122 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	04/09/2025	ND	448	112	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/09/2025	ND	196	98.1	200	0.0597	
DRO >C10-C28*	<10.0	10.0	04/09/2025	ND	202	101	200	0.322	
EXT DRO >C28-C36	<10.0	10.0	04/09/2025	ND					

Surrogate: 1-Chlorooctane 100 % 44.4-145

Surrogate: 1-Chlorooctadecane 96.2 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 04/08/2025
Reported: 04/14/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - EDDY CO., NM

Sampling Date: 04/08/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW - 08 0-10' (H252102-27)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/09/2025	ND	1.62	80.9	2.00	4.97		
Toluene*	<0.050	0.050	04/09/2025	ND	1.84	92.2	2.00	1.58		
Ethylbenzene*	<0.050	0.050	04/09/2025	ND	1.87	93.6	2.00	0.348		
Total Xylenes*	<0.150	0.150	04/09/2025	ND	6.15	103	6.00	0.319		
Total BTX	<0.300	0.300	04/09/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/09/2025	ND	448	112	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/09/2025	ND	196	98.1	200	0.0597	
DRO >C10-C28*	<10.0	10.0	04/09/2025	ND	202	101	200	0.322	
EXT DRO >C28-C36	<10.0	10.0	04/09/2025	ND					

Surrogate: 1-Chlorooctane 92.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 88.7 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 04/08/2025
Reported: 04/14/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - EDDY CO., NM

Sampling Date: 04/08/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW - 16 0-10' (H252102-28)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/10/2025	ND	1.62	80.9	2.00	4.97		
Toluene*	<0.050	0.050	04/10/2025	ND	1.84	92.2	2.00	1.58		
Ethylbenzene*	<0.050	0.050	04/10/2025	ND	1.87	93.6	2.00	0.348		
Total Xylenes*	<0.150	0.150	04/10/2025	ND	6.15	103	6.00	0.319		
Total BTEx	<0.300	0.300	04/10/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	04/09/2025	ND	448	112	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/09/2025	ND	196	98.1	200	0.0597	
DRO >C10-C28*	<10.0	10.0	04/09/2025	ND	202	101	200	0.322	
EXT DRO >C28-C36	<10.0	10.0	04/09/2025	ND					

Surrogate: 1-Chlorooctane 96.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 91.9 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 04/08/2025
Reported: 04/14/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - EDDY CO., NM

Sampling Date: 04/08/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW - 21 0-7' (H252102-29)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/10/2025	ND	1.62	80.9	2.00	4.97		
Toluene*	<0.050	0.050	04/10/2025	ND	1.84	92.2	2.00	1.58		
Ethylbenzene*	<0.050	0.050	04/10/2025	ND	1.87	93.6	2.00	0.348		
Total Xylenes*	<0.150	0.150	04/10/2025	ND	6.15	103	6.00	0.319		
Total BTEX	<0.300	0.300	04/10/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 127 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	04/09/2025	ND	448	112	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/09/2025	ND	196	98.1	200	0.0597	
DRO >C10-C28*	<10.0	10.0	04/09/2025	ND	202	101	200	0.322	
EXT DRO >C28-C36	<10.0	10.0	04/09/2025	ND					

Surrogate: 1-Chlorooctane 103 % 44.4-145

Surrogate: 1-Chlorooctadecane 97.9 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 04/08/2025
Reported: 04/14/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - EDDY CO., NM

Sampling Date: 04/08/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW - 22 0-7' (H252102-30)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/10/2025	ND	1.62	80.9	2.00	4.97		
Toluene*	<0.050	0.050	04/10/2025	ND	1.84	92.2	2.00	1.58		
Ethylbenzene*	<0.050	0.050	04/10/2025	ND	1.87	93.6	2.00	0.348		
Total Xylenes*	<0.150	0.150	04/10/2025	ND	6.15	103	6.00	0.319		
Total BTX	<0.300	0.300	04/10/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	04/09/2025	ND	448	112	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/09/2025	ND	196	98.1	200	0.0597	
DRO >C10-C28*	<10.0	10.0	04/09/2025	ND	202	101	200	0.322	
EXT DRO >C28-C36	<10.0	10.0	04/09/2025	ND					

Surrogate: 1-Chlorooctane 97.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 94.4 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 04/08/2025
Reported: 04/14/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - EDDY CO., NM

Sampling Date: 04/08/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW - 24 0-7' (H252102-31)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/10/2025	ND	1.62	80.9	2.00	4.97		
Toluene*	<0.050	0.050	04/10/2025	ND	1.84	92.2	2.00	1.58		
Ethylbenzene*	<0.050	0.050	04/10/2025	ND	1.87	93.6	2.00	0.348		
Total Xylenes*	<0.150	0.150	04/10/2025	ND	6.15	103	6.00	0.319		
Total BTEx	<0.300	0.300	04/10/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/09/2025	ND	448	112	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/09/2025	ND	196	98.1	200	0.0597	
DRO >C10-C28*	<10.0	10.0	04/09/2025	ND	202	101	200	0.322	
EXT DRO >C28-C36	<10.0	10.0	04/09/2025	ND					

Surrogate: 1-Chlorooctane 92.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 88.9 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 04/08/2025
Reported: 04/14/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - EDDY CO., NM

Sampling Date: 04/08/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW - 27 0-7' (H252102-32)

BTEx 8021B		mg/kg	Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/10/2025	ND	1.62	80.9	2.00	4.97	
Toluene*	<0.050	0.050	04/10/2025	ND	1.84	92.2	2.00	1.58	
Ethylbenzene*	<0.050	0.050	04/10/2025	ND	1.87	93.6	2.00	0.348	
Total Xylenes*	<0.150	0.150	04/10/2025	ND	6.15	103	6.00	0.319	
Total BTEX	<0.300	0.300	04/10/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 135 % 71.5-134

Chloride, SM4500Cl-B		mg/kg	Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	04/09/2025	ND	448	112	400	7.41	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/09/2025	ND	196	98.1	200	0.0597	
DRO >C10-C28*	<10.0	10.0	04/09/2025	ND	202	101	200	0.322	
EXT DRO >C28-C36	<10.0	10.0	04/09/2025	ND					

Surrogate: 1-Chlorooctane 98.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 94.8 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
SAMANTHA MACKENZIE
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 04/08/2025
Reported: 04/14/2025
Project Name: OSAGE 18 FEE A COM #001 H
Project Number: 03B1417261
Project Location: OXY - EDDY CO., NM

Sampling Date: 04/08/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW - 33 0-7' (H252102-33)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/10/2025	ND	1.62	80.9	2.00	4.97	
Toluene*	<0.050	0.050	04/10/2025	ND	1.84	92.2	2.00	1.58	
Ethylbenzene*	<0.050	0.050	04/10/2025	ND	1.87	93.6	2.00	0.348	
Total Xylenes*	<0.150	0.150	04/10/2025	ND	6.15	103	6.00	0.319	
Total BTEX	<0.300	0.300	04/10/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 126 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	04/09/2025	ND	448	112	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	10.2	10.0	04/09/2025	ND	196	98.1	200	0.0597	
DRO >C10-C28*	<10.0	10.0	04/09/2025	ND	202	101	200	0.322	
EXT DRO >C28-C36	<10.0	10.0	04/09/2025	ND					

Surrogate: 1-Chlorooctane 103 % 44.4-145

Surrogate: 1-Chlorooctadecane 98.7 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolver LLC		P.O. #:		BILL TO		ANALYSIS REQUEST												
Project Manager: Samantha McKinnis		Company: Oxy																
Address: 604 Mainfield #400		Attn: Wade Dietrich																
City: Midland State: TX Zip: 79701		Address:																
Phone #: 432 230 3344 Fax #:		City:																
Project #: 0381417261 Project Owner:		State:																
Project Name: Oxygen 18 Fee A		Zip:																
Project Location: Eddy Co NM		Phone #:																
Sampler Name: Sherry Diller		Fax #:																
FOR LAB USE ONLY		PRESERV		SAMPLING														
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME				
10320102	ES-01	10	C1	X									4-8-25	1046	X	X	X	
	ES-02	10	C1	X									4-8-25	1048	X	X	X	
	ES-03	10	C1	X									4-8-25	1050	X	X	X	
	ES-04	10	C1	X									4-8-25	1052	X	X	X	
	ES-13	8	C1	X									4-8-25	1100	X	X	X	
	ES-22	10	C1	X									4-8-25	1102	X	X	X	
	ES-23	10	C1	X									4-8-25	1104	X	X	X	
	ES-24	10	C1	X									4-8-25	1106	X	X	X	
	ES-32	10	C1	X									4-8-25	1116	X	X	X	
	ES-37	10	C1	X									4-8-25	1118	X	X	X	

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Relinquished By: **[Signature]** Date: **4-8-25** Time: **1558** Received By: **[Signature]** Date: **4-8-25** Time: **1558**

Delivered By: (Circle One) Observed Temp. °C: **4.4** Sample Condition: **Cool Intact** CHECKED BY: **[Signature]** Turnaround Time: **Standard** Bacteria (only) Sample Condition: **Cool Intact** Observed Temp. °C: **4.4** Corrected Temp. °C: **4.7** Thermometer ID #140 Correction Factor: **+0.3**

Cardinal cannot accept verbal changes. Please email changes to: cardinal@cardinallabsnm.com



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum LLC Project Manager: Samantha McKensie Address: 604 Mainfield #400 City: MIDLAND State: TX Zip: 79701 Phone #: 432 230 3344 Fax #: Project #: 0381417261 Project Owner: Oxy Project Name: Osgate 18 Fee A Project Location: Eddy Co NM Sample Name: Skane Diller FOR LAB USE ONLY		BILL TO P.O. #: Company: Oxy Attn: Wade Dietrich Address: City: State: Zip: Phone #: Fax #:		ANALYSIS REQUEST							
Lab I.D. H352102	Sample I.D. Dep-4	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :	MATRIX PRESERV.	DATE TIME	TPH 8015 BTEX 80216 Chlorides 4500						
11	F-S-39	10	C1	X	4-8-25	1120	X	X	X		
12	F-S-40	10	C1	X	4-8-25	1122	X	X	X		
13	F-S-44	10	C1	X	4-8-25	1124	X	X	X		
14	F-S-45	10	C1	X	4-8-25	1126	X	X	X		
15	F-S-49	10	C1	X	4-8-25	1136	X	X	X		
16	F-S-57	10	C1	X	4-8-25	1138	X	X	X		
17	F-S-70	7	C1	X	4-8-25	1140	X	X	X		
18	F-S-71	7	C1	X	4-8-25	1142	X	X	X		
19	F-S-72	7	C1	X	4-8-25	1144	X	X	X		
20	F-S-74	7	C1	X	4-8-25	1156	X	X	X		

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Relinquished By: [Signature] Date: 4-8-25 Time: 1:55a Received By: [Signature] Date: Time: Received By:	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: All Results are emailed. Please provide Email address: REMARKS:
---	--

Delivered By: (Circle One) Sampler - UPS - Bus - Other: Observed Temp. °C 4.4 Corrected Temp. °C 4.7 Sample Condition Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Checked By: [Signature] Turnaround Time: Standard Rush Thermometer ID #140 Correction Factor -0.6 +0.3 Bacteria (only) Sample Condition Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Observed Temp. °C Corrected Temp. °C
--

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum LLC

Project Manager: Samantha McKensie

Address: 604 Maricfield 400

City: MIDLAND State: TX Zip: 79701

Phone #: 432 230 3344 Fax #:

Project #: 030417261 Project Owner: OKY

Project Name: Osage 18 Fee A

Project Location: Eddy Co NPM

Sample Name: Shore Diller

BILL TO

P.O. #:

Company: OKY

Attn: Wade Diemmel

Address:

City:

State: Zip:

Phone #:

Fax #:

ANALYSIS REQUEST

Lab I.D. 4830102

Sample I.D. Depth

FOR LAB USE ONLY		Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	SAMPLING																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
						GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :		ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
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PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: 48-25 Received By: 8804102

Time: 1552

Date: Received By:

Time:

Delivered By: (Circle One)

Observed Temp. °C: 4.4

Corrected Temp. °C: 4.7

Sample - UPS - Bus - Other:

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

March 24, 2025

SAMANTHA MACKENZIE

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: BRYKSAW CALICHE PIT

Enclosed are the results of analyses for samples received by the laboratory on 03/21/25 13:52.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 SAMANTHA MACKENZIE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/21/2025
 Reported: 03/24/2025
 Project Name: BRYKSAW CALICHE PIT
 Project Number: 03B1417247
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 03/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BRYKSAW CALICHE PIT CALICHE SAMPLE (H251679-01)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/22/2025	ND	2.02	101	2.00	2.61	
Toluene*	<0.050	0.050	03/22/2025	ND	2.12	106	2.00	3.24	
Ethylbenzene*	<0.050	0.050	03/22/2025	ND	2.08	104	2.00	4.14	
Total Xylenes*	<0.150	0.150	03/22/2025	ND	6.12	102	6.00	4.21	
Total BTEX	<0.300	0.300	03/22/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	03/24/2025	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	03/21/2025	ND	203	101	200	4.27	
DRO >C10-C28*	68.0	10.0	03/21/2025	ND	196	98.2	200	7.66	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 98.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 98.1 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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 Fax To:

Received: 03/21/2025
 Reported: 03/24/2025
 Project Name: BRYKSAW CALICHE PIT
 Project Number: 03B1417247
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 03/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BRYKSAW CALICHE PIT TOPSOIL SAMPLE (H251679-02)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/22/2025	ND	2.02	101	2.00	2.61		
Toluene*	<0.050	0.050	03/22/2025	ND	2.12	106	2.00	3.24		
Ethylbenzene*	<0.050	0.050	03/22/2025	ND	2.08	104	2.00	4.14		
Total Xylenes*	<0.150	0.150	03/22/2025	ND	6.12	102	6.00	4.21		
Total BTEX	<0.300	0.300	03/22/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/24/2025	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	03/21/2025	ND	203	101	200	4.27	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	196	98.2	200	7.66	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 75.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 73.2 % 40.6-153

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Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC		BILL TO		ANALYSIS REQUEST	
Project Manager: Brian Jennings Samantha Macfie		P.O. #:			
Address: 601 N Marlenfeld Street, Suite 400		Company: Oxy USA Inc.			
City: Midland		Attn: Wade Dittich			
State: TX Zip: 79701		Address:			
Phone #: 940-819-0000 (762) 367-3545 Fax #:		City:			
Project #: 0381417217 Project Owner:		State:			
Project Name: Bryksaw Caliche Pit		Zip:			
Project Location: Eddy County, NM		Phone #: 575-390-2828			
Sampler Name: Leah Nunez / Raphael Udeh		Fax #:			
FOR LAB USE ONLY					
Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	
HAS11079					
1	Bryksaw Caliche Pit Caliche Sample	-	C 1	X	
2	Bryksaw Caliche Pit Topsoil Sample	-	C 1	X	
N/A					
DATE TIME					
3/21/25 10:25					
3/21/25 10:30					
BTEX 8021					
TPH 8015					
chloride 4500					
3/21/25					
REMARKS:					
Vertical Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:					
All Results are emailed. Please provide Email address:					
Smatchatic@Ensolum.com					
REINQUISHED BY:					
Date: 3/21/25					
Time: 15:52					
Received By:					
Date:					
Time:					
Delivered By: (Circle One)					
Sampler - UPS - Bus - Other:					
Observed Temp. °C 41.0					
Corrected Temp. °C 49.2					
Sample Condition					
Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No					
CHECKED BY: (Initials)					
Turnaround Time: Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/>					
Thermometer ID #113 #140					
Correction Factor -0.5°C					
Bacteria (only) Sample Condition					
Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No					
Corrected Temp. °C					

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

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

QUESTIONS

Action 481929

QUESTIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 481929
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2501656936
Incident Name	NAPP2501656936 OSAGE 18 FEE A COM. #001H @ 30-015-40759
Incident Type	Release Other
Incident Status	Remediation Closure Report Received
Incident Well	[30-015-40759] OSAGE 18 FEE A COM #001H

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

Site Name	OSAGE 18 FEE A COM. #001H
Date Release Discovered	01/04/2025
Surface Owner	Private

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

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

Nature and Volume of Release*Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.*

Crude Oil Released (bbls) Details	Cause: Equipment Failure Producing Well Crude Oil Released: 3 BBL Recovered: 0 BBL Lost: 3 BBL.
Produced Water Released (bbls) Details	Cause: Equipment Failure Producing Well Produced Water Released: 7 BBL Recovered: 0 BBL Lost: 7 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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QUESTIONS, Page 2

Action 481929

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 481929
	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	<i>Unavailable.</i>
<i>With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.</i>	

Initial Response

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	<i>Not answered.</i>

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: 01/17/2025
--	---

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QUESTIONS, Page 3

Action 481929

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 481929
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization	
<i>Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between ½ and 1 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (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 200 and 300 (ft.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Zero feet, overlying, or within area
Categorize the risk of this well / site being in a karst geology	High
A 100-year floodplain	Between 1000 (ft.) and ½ (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	3520
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	316
GRO+DRO (EPA SW-846 Method 8015M)	268
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
On what estimated date will the remediation commence	01/28/2025
On what date will (or did) the final sampling or liner inspection occur	04/08/2025
On what date will (or was) the remediation complete(d)	04/08/2025
What is the estimated surface area (in square feet) that will be reclaimed	15603
What is the estimated volume (in cubic yards) that will be reclaimed	4877
What is the estimated surface area (in square feet) that will be remediated	15603
What is the estimated volume (in cubic yards) that will be remediated	4877
<i>These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.</i>	
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 4

Action 481929

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID:
	16696
	Action Number:
	481929
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	LEA LAND LANDFILL [fEEM0112342028]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Daniel Sparks Title: Environmental Analyst III Email: daniel_sparks@oxy.com Date: 07/07/2025
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 481929

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 481929
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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QUESTIONS, Page 6

Action 481929

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 481929
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	448765
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	04/08/2025
What was the (estimated) number of samples that were to be gathered	60
What was the sampling surface area in square feet	11206

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	15603
What was the total volume (cubic yards) remediated	4877
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	15603
What was the total volume (in cubic yards) reclaimed	4877
Summarize any additional remediation activities not included by answers (above)	N/A

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

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

I hereby agree and sign off to the above statement	Name: Daniel Sparks Title: Environmental Analyst III Email: daniel_sparks@oxy.com Date: 07/07/2025
--	---

Sante Fe Main Office
Phone: (505) 476-3441

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Phone: (505) 629-6116

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

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

QUESTIONS, Page 7

Action 481929

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 481929
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

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

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

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

State of New Mexico
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CONDITIONS

Action 481929

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 481929
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	This Remediation Closure Report is approved. Areas reasonably needed for production or subsequent drilling operations will need to be reclaimed and revegetated as soon as they are no longer reasonably needed. A report for reclamation and revegetation will need to be submitted and approved prior to this incident receiving the final status of "Restoration Complete".	8/4/2025