



April 4, 2025

New Mexico Oil Conservation Division

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

**Re: Deferral Request
Bradley 13 Federal #001
Incident Number nAPP2218939473
Eddy County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum) on behalf of Oxy USA, Inc. (Oxy), has prepared this *Deferral Request* to document excavation and soil sampling activities performed at the Bradley 13 Federal #001 (Site). The purpose of the excavation and soil sampling activities, conducted in accordance with an approved *Remediation Work Plan (Work Plan)*, was to address impacts to soil resulting from a release of crude oil at the Site. Oxy is submitting this *Deferral Request*, describing excavation activities that have occurred and requesting deferral of final remediation for Incident Number nAPP2218939473 until the Site is reconstructed, and/or the well pad is abandoned.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit F, Section 13, Township 25 South, Range 29 East, in Eddy County, New Mexico (32.132°, -103.940292°) and is associated with oil and gas exploration and production operations on Federal land managed by the Bureau of Land Management (BLM).

On July 6, 2022, a 4-inch load line valve failed, resulting in the release of approximately 187 barrels (bbls) of crude oil into the earthen containment and onto the surface of the well pad. A vacuum truck was dispatched to the Site to recover free-standing fluids; approximately 96 bbls of crude oil were recovered. Oxy reported the release to the New Mexico Oil Conservation Division (NMOCD) via email on July 8, 2022, and submitted a Release Notification Form C-141 (Form C-141) on July 21, 2022. The release was assigned Incident Number nAPP2218939473.

The Work Plan detailed Site characterization completed 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 in the Work Plan, submitted January 31, 2025. Potential Site receptors are identified on Figure 1.

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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) – gasoline range organics (GRO) and diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 20,000 mg/kg

Between June 20, 2024 and January 15, 2025, Ensolum conducted Site assessment and delineation activities in response to the release. Oxy submitted a *Work Plan* to the New Mexico Oil Conservation Division (NMOCD) on January 30, 2025 proposing excavation of impacted soil. Delineation soil samples were collected within and around the release as shown on Figure 2. All previously completed remedial activities can be found in the *Work Plan* included in Appendix A. On January 31, 2025, NMOCD approved the *Work Plan* as written.

EXCAVATION SOIL SAMPLING ACTIVITIES

Between February 4 and 19, 2024, Ensolum personnel were at the Site to oversee excavation activities in accordance with the approved *Work Plan*. Impacted soil was excavated from the release area as indicated by delineation soil sample laboratory analytical results. Excavation activities were performed using a backhoe, hydrovac, hand shovels, and transport vehicle. The excavation occurred within the earthen containment on the well pad around and below active production equipment and surface lines. To direct excavation activities, Ensolum personnel screened soil for VOCs utilizing a calibrated photoionization detector (PID) and chlorides utilizing Hach® chloride QuanTab® test strips.

Following removal of impacted soil to the maximum extent possible, Ensolum personnel collected 5-point composite soil samples representing no more than 200 square feet from the sidewalls and floor of the excavation. The 5-point composite soil samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Excavation soil samples FS01 through FS09 were collected from the floor of the excavation at depths ranging from 1-foot to 8.5 feet bgs. Excavation sidewall soil samples SW01 through SW07 were collected from the sidewalls of the excavation at depths ranging from ground surface to 6 feet bgs. Photographic documentation of the excavation activities is presented on a Photographic Log in Appendix B.

The confirmation 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) located in Hobbs, New Mexico, for analysis of the following contaminants of concern (COC): 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 SM4500Cl-B.

The final excavation extents measured approximately 1,415 square feet. A total of approximately 248 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Halfway Disposal and Landfill in Hobbs, New Mexico.

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LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for all confirmation floor and sidewall soil samples collected from the final excavation extent indicated all COC concentrations were in compliance with Closure Criteria except for sidewall SW07, which exceeded the TPH limits outlined for the site. Additional soil could not be removed due to the presence of active production equipment and utilities. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Appendix C.

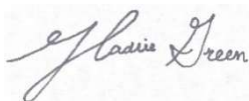
DEFERRAL REQUEST

Excavation activities were conducted at the Site as proposed in the approved *Work Plan*. Impacted soil remains in the release extent where production equipment exists. The impacted soil contains TPH concentrations that exceed Closure Criteria. Lateral delineation of the residual impacted soil is defined by the delineation soil samples LD01 through LD05. Vertical delineation of residual impacted soil is defined by delineation soil samples SS01 and SS04. An estimated area of impacted soil left in place immediate adjacent to or below active production equipment and utilities measures approximately 3,153 square feet and 467 cubic yards. The estimated area of remaining impacted soil and referenced soil sample locations are presented in Figure 2. Oxy is requesting deferral of final remediation in this area since excavation of the soil would require major facility deconstruction.

Oxy does not believe deferment of the remaining 467 cubic yards of soil will result in imminent risk to human health, the environment, or groundwater and the impacted soil remaining in place is limited in areal and vertical extent. As such, Oxy requests deferral of final remediation for Incident Number nAPP2218939473 until final reclamation of the well pad or major construction, whichever comes first.

If you have any questions or comments, please contact Mr. Beaux Jennings at (210) 219-8858 or bjennings@ensolum.com.

Sincerely,
Ensolum, LLC



Hadlie Green
Project Geologist



Beaux Jennings
Associate Principal

cc: Wade Dittrich, Oxy
Bureau of Land Management

Appendices:

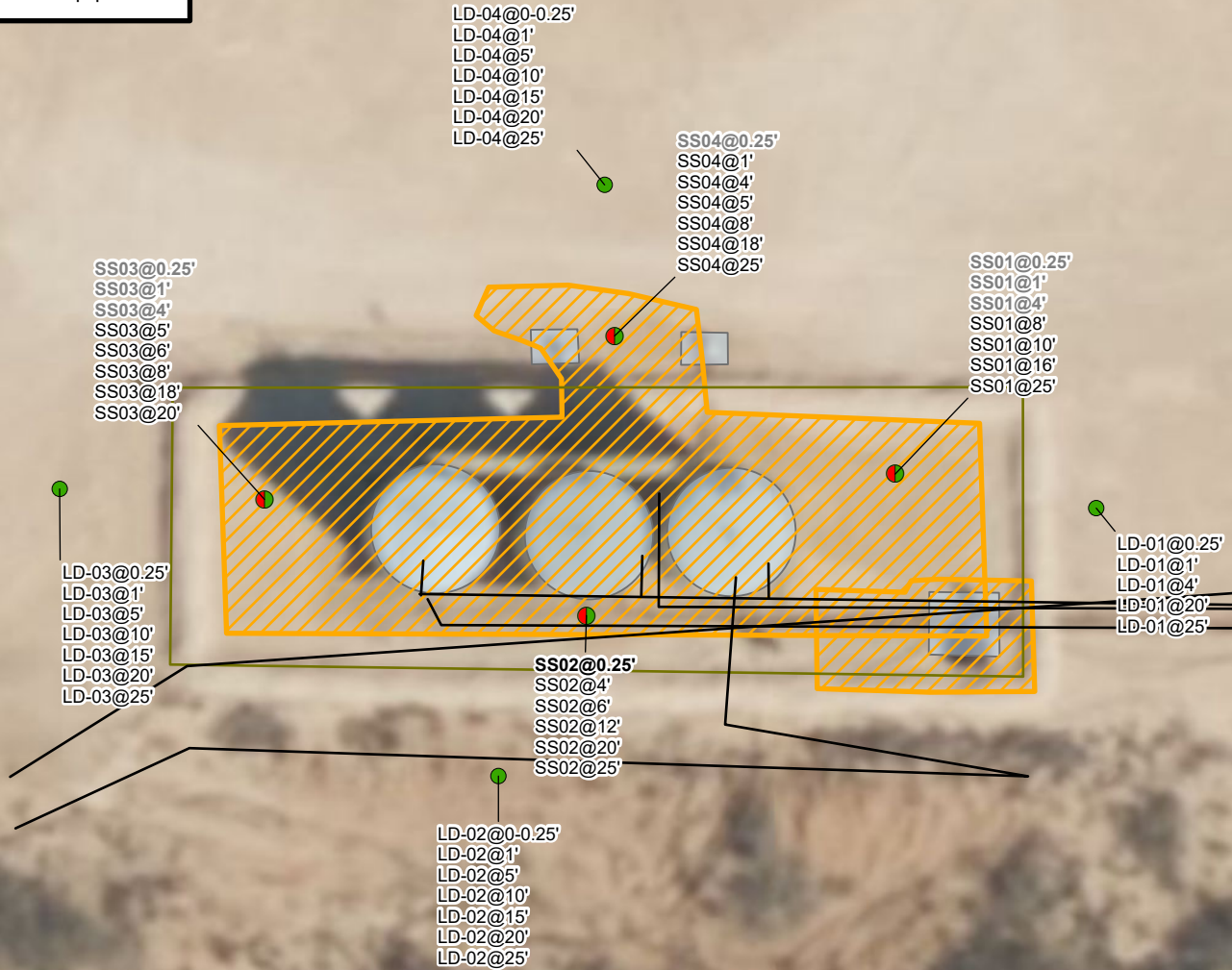
Figure 1	Site Receptor Map
Figure 2	Delineation Soil Sample Locations
Figure 3	Excavation Soil Sample Locations
Figure 4	Deferral Area Map
Table 1	Soil Sample Analytical Results
Appendix A	January 30, 2025 <i>Remediation Work Plan</i>
Appendix B	Photographic Log
Appendix C	Laboratory Analytical Reports & Chain-of-Custody Documentation



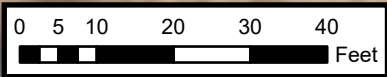
FIGURES

Legend

- Delineation Soil Sample in Compliance with Closure Criteria
- Delineation Soil Sample with Concentrations Previously Exceeding Closure Criteria
- Surface Line
- Earthen Berm
- Release Extent
- Production Equipment



Notes:
Sample ID @ Depth Below Ground Surface.
Samples in bold indicate sample exceeded applicable closure criteria.
Grey text indicate soil sample was removed during excavation activities.



Sources: Environmental Systems Research Institute (ESRI)



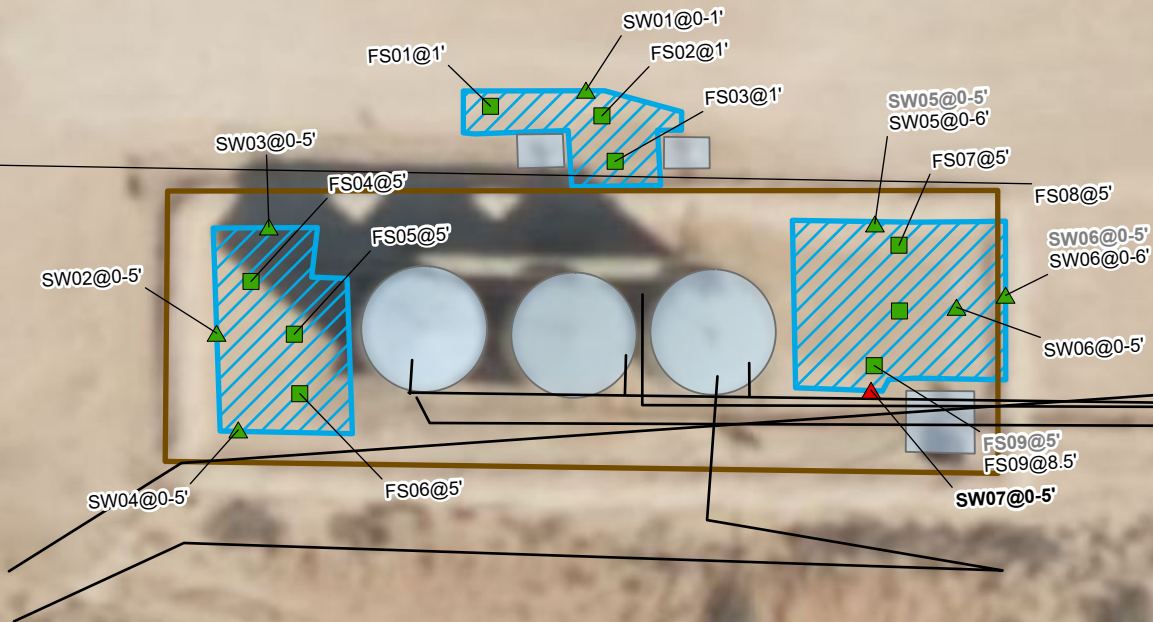
Delineation Soil Sample Locations

Oxy USA Inc.
Bradley 13 Federal #001
Incident Number: nAPP2218939473
Unit F, Section 13, T 25S, R 29E
Eddy County, New Mexico

FIGURE
2

Legend

- Excavation Floor Sample in Compliance with Closure Criteria
- ▲ Excavation Sidewall Sample in Compliance with Closure Criteria
- ▲ Excavation Floor Sample with Concentrations Exceeding Closure Criteria
- Surface Line
- Earthen Berm
- Production Equipment
- Excavation Extent

**Notes:**

Sample ID @ Depth Below Ground Surface.
 Samples in bold indicate sample exceeded applicable closure criteria.
 Grey text indicate soil sample was removed during excavation activities.

0 5 10 20 30 40
 Feet

Sources: Environmental Systems Research Institute (ESRI)

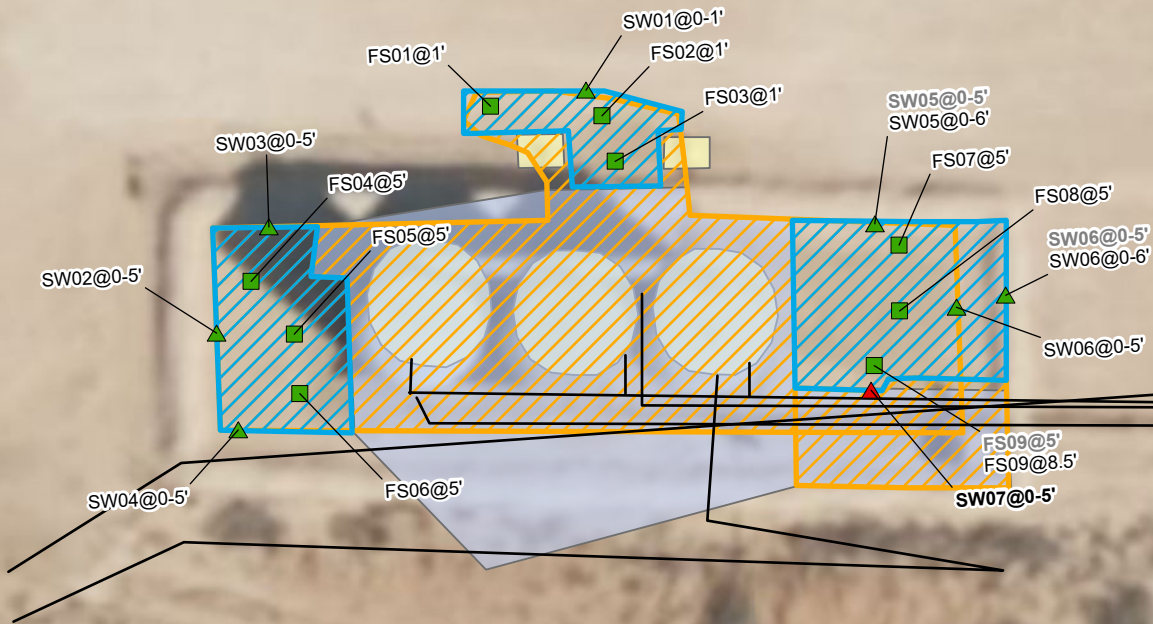
Excavation Soil Sample Locations

Oxy USA Inc.
 Bradley 13 Federal #001
 Incident Number: nAPP2218939473
 Unit F, Section 13, T 25S, R 29E
 Eddy County, New Mexico

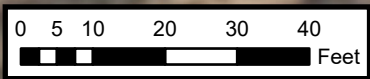
FIGURE**3**

Legend

- Excavation Floor Sample in Compliance with Closure Criteria
- Excavation Sidewall Sample in Compliance with Closure Criteria
- Excavation Floor Sample with Concentrations Exceeding Closure Criteria
- Surface Line
- Release Extent
- Excavation Extent
- Production Equipment
- Deferral Area



Notes:
Sample ID @ Depth Below Ground Surface.
Samples in bold indicate sample exceeded applicable closure criteria.
Grey text indicate soil sample was removed during excavation activities.



Sources: Environmental Systems Research Institute (ESRI)

Area of Requested Deferral

Oxy USA Inc.
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Unit F, Section 13, T 25S, R 29E
Eddy County, New Mexico

FIGURE
4





TABLES



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Bradley 13 Federal #001
 Oxy USA Inc.
 Eddy County, New Mexico
 Ensolum Project No. 03B1417195

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 GRO+DRO C ₆ -C ₂₈ (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	1,000	2,500	20,000
Vertical Delineation Soil Sample Analytical Results													
SS01	06/20/2024	0.25	<0.050	<0.050	0.196	1.52	1.71	222	25,500	8,070	25,722	33,570	400
	07/22/2024	1	2.02	15.2	18.9	58.3	94.4	2,970	6,110	1,190	9,080	10,270	272
	07/22/2024	4	<0.050	0.396	1.05	3.54	4.99	237	1,120	229	1,357	1,586	800
	07/22/2024	8	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,250
	01/14/2025	10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	512
	01/14/2025	16	0.167	0.391	0.954	2.31	3.82	27.6	66.5	<10.0	94.1	94.1	256
	01/14/2025	25	<0.050	<0.050	<0.050	0.167	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
SS02	06/20/2024	0.25	<0.050	<0.050	0.352	2.28	2.63	348	23,100	6,630	23,448	29,730	3,760
	01/15/2025	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	247	44.0	247	291	64.0
	01/15/2025	6	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	69.0	<10.0	69.0	69.0	64.0
	01/15/2025	12	<0.050	<0.050	<0.050	<0.150	<0.300	12.1	829	161	841	1,002	560
	01/15/2025	20	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
	01/15/2025	25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SS03	06/20/2024	0.25	<0.050	<0.050	0.802	4.69	5.49	509	27,700	7,100	28,209	34,800	48.0
	07/22/2024	1	<0.050	<0.050	<0.050	1.01	1.01	689	5,440	1,310	6,129	7,439	16.0
	07/22/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	396	3,410	677	3,806	4,483	464
	07/22/2024	5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	528
	07/22/2024	6	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	154	23.2	154	177	560
	01/14/2025	8	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
	01/14/2025	18	0.297	1.36	2.19	5.58	9.43	174	581	133	755	888	144
	01/14/2025	20	0.248	1.19	1.89	4.80	8.13	147	403	80.9	550	631	224



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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 GRO+DRO C ₆ -C ₂₈ (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	1,000	2,500	20,000
SS04	06/20/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	3,060	1,000	3,060	4,060	6,320
	07/22/2024	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	432
	07/22/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,600
	07/22/2024	5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	800
	01/14/2025	8	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	848
	01/14/2025	18	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,410
	01/14/2025	25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	7,360
Lateral Delineation Soil Sample Analytical Results													
LD-01	01/15/2025	0-0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	640
	01/15/2025	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256
	01/14/2025	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
	01/14/2025	20	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	288
	01/14/2025	25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
LD-02	01/15/2025	0-0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
	01/15/2025	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
	01/15/2025	5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
	01/15/2025	10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
	01/15/2025	15	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
	01/15/2025	20	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
	01/15/2025	25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
LD-03	01/15/2025	0-0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
	01/15/2025	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
	01/15/2025	5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
	01/15/2025	10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
	01/15/2025	15	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
	01/15/2025	20	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
	01/15/2025	25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Bradley 13 Federal #001
 Oxy USA Inc.
 Eddy County, New Mexico
 Ensolum Project No. 03B1417195

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 GRO+DRO C ₆ -C ₂₈ (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	1,000	2,500	20,000
LD-04	01/15/2025	0-0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
	01/15/2025	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	336
	01/15/2025	5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
	01/15/2025	10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
	01/15/2025	15	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
	01/15/2025	20	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
01/15/2025	25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0	
LD-05	02/19/2025	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
		3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
		5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	272
Excavation Floor Soil Sample Analytical Results													
FS01	01/27/2025	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	43.7	32.4	43.7	76.1	304
FS02	01/27/2025	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	688
FS03	01/27/2025	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
FS04	01/27/2025	5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS05	01/27/2025	5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
FS06	01/27/2025	5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS07	02/04/2025	5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	163	28.2	163	191	2,000
FS08	02/04/2025	5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	231	97.7	231	329	448
FS09	02/04/2025	5	<0.050	<0.050	0.152	0.622	0.774	53.4	1,800	416	1,853	2,269	608
FS09	02/19/2025	8.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	528



TABLE 1
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 Eddy County, New Mexico
 Ensolum Project No. 03B1417195

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 GRO+DRO C ₆ -C ₂₈ (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	1,000	2,500	20,000
Sidewall Soil Sample Analytical Results													
SW01	01/27/2025	0-1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW02	01/27/2025	0-5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SW03	01/27/2025	0-5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
SW04	01/27/2025	0-5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
SW05	02/04/2025	0-5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	629	177	629	806	304
SW05	02/19/2025	0-6	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	464
SW06	02/04/2025	0-5	<0.050	<0.050	0.260	0.857	1.12	72.4	2,410	589	2,482	3,071	160
SW06	02/19/2025	0-6	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
SW07	02/04/2025	0-5	<0.050	<0.050	0.229	0.858	1.09	68.8	2,620	639	2,689	3,328	592

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

Grey text represents samples that have been excavated.

bgs: below ground surface

mg/kg: milligrams per kilogram

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 Hydrocarbon



APPENDIX A

January 30, 2025 Remediation Work Plan



January 30, 2025

New Mexico Oil Conservation Division

1220 South St. Francis Street
Santa Fe, New Mexico 87505

**Re: Remediation Work Plan
Bradley 13 Federal #001
Incident Number nAPP2218939473
API: 30-015-29256
Eddy County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Oxy USA Inc. (Oxy), has prepared the following *Remediation Work Plan* to document assessment, delineation, and soil sampling activities completed to date and propose actions to address residual impacted soil identified at the Bradley 13 Federal #001 (Site), following a release of crude oil. The following *Remediation Work Plan* proposes to excavate impacted soil within the release extent.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit F, Section 13, Township 25 South, Range 29 East, in Eddy County, New Mexico (32.13211°, -103.940292°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On July 6, 2022, a 4-inch load line valve failed, resulting in the release of approximately 187 barrels (bbls) of crude oil into the earthen containment and onto the surface of the well pad. A vacuum truck was dispatched to the Site to recover free-standing fluids; approximately 96 bbls of crude oil were recovered. Oxy reported the release to the New Mexico Oil Conservation Division (NMOCD) via email on July 8, 2022, and submitted a Release Notification Form C-141 (Form C-141) on July 21, 2022. The release was assigned Incident Number nAPP2218939473.

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 are summarized below and detailed in the NMOCD permitting portal Form C-141 Site Characterization section. Potential Site receptors are identified on Figure 1.

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on data from a soil boring drilled to investigate regional groundwater depths. In August 2024, a soil boring permitted by New Mexico Office of the State Engineer (C-04851) was completed approximately 0.6 miles south of the Site utilizing air rotary drilling method. Soil boring C-04851 (BH01) was drilled to a depth of 110 feet bgs. A field geologist logged and described soils continuously. No moisture or groundwater was encountered during drilling activities. The temporary well was left open for over 72 hours to allow for potential slow infill of groundwater. After the 72-hour waiting period without

Oxy USA Inc.
Remediation Work Plan
Bradley 13 Federal #001

observing groundwater, it was confirmed that groundwater beneath the Site is greater than 110 feet bgs. The borehole was properly abandoned with drill cuttings and hydrated bentonite chips. The Well Record & Log is included in Appendix A. All wells used for depth to water determination are depicted on Figure 1.

The closest continuously flowing or significant watercourse to the Site is a riverine, located approximately 3,223 feet west 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, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring. The Site is within a 100-year floodplain. The Site is not overlying a subsurface mine. The Site is not underlain by unstable geology (low karst potential designation area).

Oxy acknowledges that there is no existing water well with depth to groundwater data within ½ mile of the Site, which NMOCD prefers for depth to water estimates. Based on the lack of sensitive receptors at the Site, the Site not being underlain by unstable geology, and nearby depth to groundwater data estimating regional depth to groundwater to be greater than 110 feet bgs, Oxy is requesting a variance for the preferred distance of the nearest depth to groundwater data guideline.

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) – gasoline range organics (GRO) and diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 20,000 mg/kg

DELINEATION ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

Between June 20, 2024 and January 15, 2025, Site activities were conducted to evaluate the release extent based on information provided on the Form C-141 and visual observations. Four boreholes (SS01 through SS04) were advanced via hand auger, hydrovac, and direct-push technology (DPT). The boreholes were advanced to maximum depths ranging from 20 feet to 25 feet bgs. Discrete soil samples were collected from each borehole at depths ranging from 0.25 feet bgs to 25 feet bgs. Additionally, four boreholes (LD-01 through LD-04) were advanced via DPT around the release extent to confirm the lateral extent of the release. The boreholes were advanced to a depth of 25 feet bgs. Discrete soil samples were collected from each borehole at depths ranging from the ground surface to 25 feet bgs.

Soil from the boreholes was field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. Field screening results and observations were logged on lithologic soil sampling logs, which are included in Appendix B. The soil sample locations are depicted on Figure 2. Photographic documentation was completed during the Site visits 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-

Oxy USA Inc.
Remediation Work Plan
Bradley 13 Federal #001

GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following Standard Method SM4500 Cl-B.

Laboratory analytical results for boreholes SS01 through SS04 indicated TPH and/or BTEX concentrations exceeded the Site Closure Criteria at depths ranging from the ground surface to 8 feet bgs. Laboratory analytical results for boreholes LD-01 through LD-04 indicated all COCs were compliant with the Closure Criteria and successfully defined the lateral extent of the release. Laboratory analytical results are presented in Table 1 and the complete laboratory reports and chain-of-custody documentation are presented in Appendix D.

PROPOSED REMEDIATION WORK PLAN

The delineation soil sampling results indicate soil containing elevated BTEX and/or TPH concentrations exists across an approximate 6,170 square foot area and extends to a maximum depth of 8 feet bgs. Oxy proposes completing the following remediation activities:

- Excavation of chloride impacted soil to depths ranging from 2 feet to 8 feet bgs. Excavation will proceed laterally until sidewall samples confirm COC concentrations are compliant with the most stringent Table I Closure Criteria or to the maximum extent practicable (MEP) due to active production equipment and utilities.
- An estimated 1,142 cubic yards of chloride impacted soil will be excavated to the MEP. The excavated soil will be transferred a New Mexico approved landfill facility for disposal.
- The excavation will be backfilled and recontoured to match pre-existing conditions.

Oxy will proceed with the excavation and soil sampling activities and will submit a *Closure Report* within 90 days of the date of approval of this *Remediation Work Plan* by the NMOCD.

If you have any questions or comments, please contact Mr. Beaux Jennings at (210) 219-8858 or bjennings@ensolum.com.

Sincerely,
Ensolum, LLC



Hadlie Green
Project Geologist



Beaux Jennings
Associate Principal

cc: Wade Dittrich, Oxy
BLM

Oxy USA Inc.
Remediation Work Plan
Bradley 13 Federal #001

Appendices:

Figure 1	Site Receptor Map
Figure 2	Delineation Soil Sample Locations
Table 1	Soil Sample Analytical Results
Appendix A	Referenced Well Records
Appendix B	Lithologic Soil Sampling Logs
Appendix C	Photographic Log
Appendix D	Laboratory Analytical Reports & Chain-of-Custody Documentation

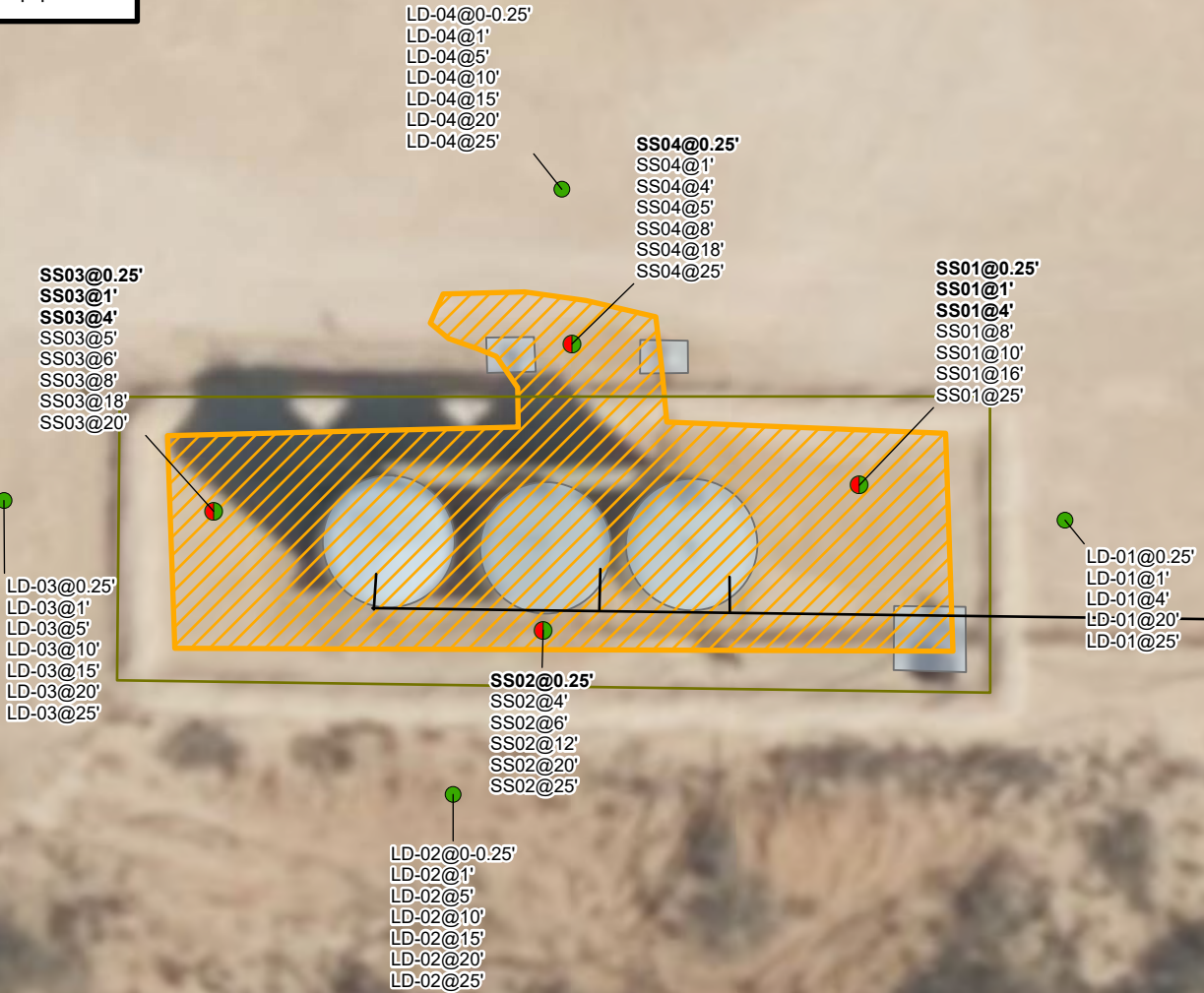


FIGURES

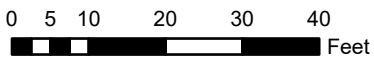
1

Legend

- Delineation Soil Sample in Compliance with Closure Criteria
- Delineation Soil Sample with Concentrations Previously Exceeding Closure Criteria
- Surface Line
- Earthen Berm
- Release Extent
- Production Equipment



Notes:
Sample ID @ Depth Below Ground Surface.
Samples in bold indicate sample exceeded applicable closure criteria.



Sources: Environmental Systems Research Institute (ESRI)



Delineation Soil Sample Locations

Oxy USA Inc.
Bradley 13 Federal #001
Incident Number: nAPP2218939473
Unit F, Section 13, T 25S, R 29E
Eddy County, New Mexico

FIGURE
2



TABLES



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Bradley 13 Federal #001
 Oxy USA Inc.
 Eddy County, New Mexico
 Ensolum Project No. 03B1417195

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 GRO+DRO C ₆ -C ₂₈ (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	1,000	2,500	20,000
Vertical Delineation Soil Sample Analytical Results													
SS01	06/20/2024	0.25	<0.050	<0.050	0.196	1.52	1.71	222	25,500	8,070	25,722	33,570	400
	07/22/2024	1	2.02	15.2	18.9	58.3	94.4	2,970	6,110	1,190	9,080	10,270	272
	07/22/2024	4	<0.050	0.396	1.05	3.54	4.99	237	1,120	229	1,357	1,586	800
	07/22/2024	8	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,250
	01/14/2025	10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	512
	01/14/2025	16	0.167	0.391	0.954	2.31	3.82	27.6	66.5	<10.0	94.1	94.1	256
	01/14/2025	25	<0.050	<0.050	<0.050	0.167	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
SS02	06/20/2024	0.25	<0.050	<0.050	0.352	2.28	2.63	348	23,100	6,630	23,448	29,730	3,760
	01/15/2025	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	247	44.0	247	291	64.0
	01/15/2025	6	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	69.0	<10.0	69.0	69.0	64.0
	01/15/2025	12	<0.050	<0.050	<0.050	<0.150	<0.300	12.1	829	161	841	1,002	560
	01/15/2025	20	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
	01/15/2025	25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SS03	06/20/2024	0.25	<0.050	<0.050	0.802	4.69	5.49	509	27,700	7,100	28,209	34,800	48.0
	07/22/2024	1	<0.050	<0.050	<0.050	1.01	1.01	689	5,440	1,310	6,129	7,439	16.0
	07/22/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	396	3,410	677	3,806	4,483	464
	07/22/2024	5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	528
	07/22/2024	6	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	154	23.2	154	177	560
	01/14/2025	8	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
	01/14/2025	18	0.297	1.36	2.19	5.58	9.43	174	581	133	755	888	144
	01/14/2025	20	0.248	1.19	1.89	4.80	8.13	147	403	80.9	550	631	224
SS04	06/20/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	3,060	1,000	3,060	4,060	6,320
	07/22/2024	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	432
	07/22/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,600
	07/22/2024	5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	800
	01/14/2025	8	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	848
	01/14/2025	18	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,410
	01/14/2025	25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	7,360



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Bradley 13 Federal #001
Oxy USA Inc.
Eddy County, New Mexico
Ensolum Project No. 03B1417195

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 GRO+DRO C ₆ -C ₂₈ (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	1,000	2,500	20,000
Lateral Delineation Soil Sample Analytical Results													
LD-01	01/15/2025	0-0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	640
	01/15/2025	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256
	01/14/2025	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
	01/14/2025	20	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	288
	01/14/2025	25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
LD-02	01/15/2025	0-0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
	01/15/2025	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
	01/15/2025	5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
	01/15/2025	10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
	01/15/2025	15	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
	01/15/2025	20	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
	01/15/2025	25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
LD-03	01/15/2025	0-0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
	01/15/2025	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
	01/15/2025	5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
	01/15/2025	10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
	01/15/2025	15	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
	01/15/2025	20	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
	01/15/2025	25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Bradley 13 Federal #001
Oxy USA Inc.
Eddy County, New Mexico
Ensolum Project No. 03B1417195

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 GRO+DRO C ₆ -C ₂₈ (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	1,000	2,500	20,000
LD-04	01/15/2025	0-0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
	01/15/2025	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	336
	01/15/2025	5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
	01/15/2025	10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
	01/15/2025	15	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
	01/15/2025	20	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
	01/15/2025	25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0

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

bgs: below ground surface

mg/kg: milligrams per kilogram

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

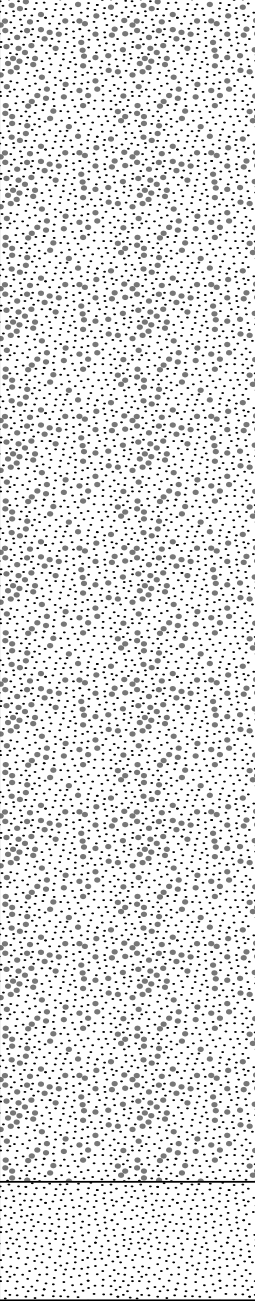
TPH: Total Petroleum Hydrocarbon



APPENDIX A

Referenced Well Records

ENVIRONMENTAL SOIL BORING BH-01

PROJECT NUMBER 03B1417195 PROJECT NAME Bradley 13 Federal #001 CLIENT Oxy USA Inc. ADDRESS 32.122633, -103.940481	DRILLING DATE 08/06/2024 DRILLING COMPANY WTWV WELL DIAMETER 6 3/4 TOTAL DEPTH 110'	WELL NAME C-04851 LOCATION Eddy County, NM PROJECT MANAGER Hadlie Green LOGGED BY Shane Diller	
COMMENTS			
Depth (ft)	Graphic Log	Material Description	Additional Observations
10		Sand, Fine-Grained, Poorly Sorted, Pink, Dry, No Hydrocarbon Odor	
20			
30			
40		Sand, Fine-Grained, Poorly Sorted, Light Reddish Brown, Dry, No Hydrocarbon Odor.	
50			
60			
70		Sand, Poorly Sorted, Light Brown, Dry, No Hydrocarbon Odor	
80			
90		Sand, Poorly Sorted, Light Reddish Brown, Dry, No Hydrocarbon Odor	
100			
		Sand, Fine-Grained, Light Reddish Brown, Dry, No Hydrocarbon Odor	
110		Total Depth at 110' Depth to Water >110'	

Disclaimer This log is intended for environmental not geotechnical purposes.

Page 1 of 1



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Groundwater levels for New Mexico

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Agency code = usgs

site_no list =

- 320857103553301

Minimum number of levels = 1

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USGS 320857103553301 25S.30E.07.112331

Eddy County, New Mexico

Latitude 32°08'57", Longitude 103°55'33" NAD27

Land-surface elevation 3,169 feet above NAVD88

The depth of the well is 385 feet below land surface.

This well is completed in the Pecos River Basin alluvial aquifer (N100PCSRVR) national aquifer.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

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Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1959-02-05			D	62610	2903.75	NGVD29	1	Z			A
1959-02-05			D	62611	2905.37	NAVD88	1	Z			A
1959-02-05			D	72019	263.63		1	Z			A
1959-03-07			D	62610	2904.08	NGVD29	1	Z			A
1959-03-07			D	62611	2905.70	NAVD88	1	Z			A
1959-03-07			D	72019	263.30		1	Z			A
1987-10-20			D	62610	2903.13	NGVD29	1	Z			A
1987-10-20			D	62611	2904.75	NAVD88	1	Z			A
1987-10-20			D	72019	264.25		1	Z			A
1992-11-06			D	62610	2904.38	NGVD29	1	S			A
1992-11-06			D	62611	2906.00	NAVD88	1	S			A
1992-11-06			D	72019	263.00		1	S			A
1998-01-28			D	62610	2903.26	NGVD29	1	V			A
1998-01-28			D	62611	2904.88	NAVD88	1	V			A
1998-01-28			D	72019	264.12		1	V			A

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	S	Steel-tape measurement.
Method of measurement	V	Calibrated electric-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined

Section	Code	Description
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

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Page Contact Information: [New Mexico Water Data Maintainer](#)


Page Last Modified: 2024-12-26 17:00:41 EST


0.33 0.25 nadww01





APPENDIX B


Lithologic Soil Sampling Logs


								Sample Name: SS01		Date: 6/20/24-1/14/25	
								Site Name: Bradley 13 Federal #001			
								Incident Number: nAPP2218939473			
								Job Number: 03B1417195			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: KS, SD		Method: Hydro/Geoprobe	
Coordinates: 32.1316595, -103.9402226								Hole Diameter: 6-12"		Total Depth: 25'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
D			Y	SS01	0.25'	1	CCHE	Caliche, white, stained, heavy petro odor.			
D			Y	SS01	1'	2	CCHE SP	Sand, very fine grained, reddish/brown, dry ,heavy petro odor.			
M		310	Y	SS01	4'	4	SP				
M	677		Y			5	SP	Sand, very fine grained, dark brown, moist, heavy petro odor.			
M			N	SS01	6'	6	SP	Sand, very fine grained, dark brown, moist, heavy petro odor.			
D	901.6	7.6	N	SS01	8'	8	SC	Sandy clay, reddish/yellow, dry, no odor.			
D	2,402	0.6	N			10	SC	Sandy clay, reddish/yellow, dry, no odor.			
D	2,402	58.2	N			12	SP	Sand, very fine grained, reddish/yellow, slight odor.			
						14					
D	498	147	N	SS01	16'	15	SW	Sand, fine grained, grey, slight odor.			
D	823.2	276	N	SS01	16'	16	SW	Sand, fine grained, pinkish/grey, dry, slight odor.			
D	901	118	N			18	SW	Sand, fine grained, pinkish/grey, dry, slight odor.			
D	616	91.6	N			20	SW	Sand, fine grained, pink, dry, no odor.			
D	616	51.2	N			22					
M	397.6	138	N			24	SC	Sandy clay w/gravel, light brown, wet,slight odor.			
D	1,159.2	21	N	SS01	25'	25	GM	Sand w/gravel, light brown, dry, no odor.			


								Sample Name: SS02		Date: 6/20/24-1/15/25	
								Site Name: Bradley 13 Federal #001			
								Incident Number: nAPP2218939473			
								Job Number: 03B1417195			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: KS, SD		Method: Hydro/Geoprobe	
Coordinates: 32.1316079, -103.9403596								Hole Diameter: 6-12"		Total Depth: 25'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
D	498	29.3		SS02	0.25'	2	SP	Sand, very fine grained, reddish/brown, dry ,slight odor.			
D	498	17.6		SS02	4'	4	SW	Sand, fine grained, red, dry, slight odor.			
D	1,579.2	4.3		SS02	6'	6	SW	Sand, fine grained, red, dry, no odor.			
D	616	17.3				8	CCHE	Sand/caliche, pinkish/grey, dry, slight odor.			
D	901	26.9				10	CCHE	Sand/caliche, pinkish/grey, dry, slight odor.			
D	677.6	31.6		SS02	12'	12	GW	Sand, some gravel, pink/grey, dry, slight odor.			
D	901	33.2				14	GW	Sand, some gravel, pink/grey, dry, slight odor.			
D	901	23.3				16	SP	Sand, very fine grained, pinkish/white, dry, no odor.			
D	823	20				18	SP	Sand, very fine grained, pinkish/white, dry, no odor.			
D	616	10.3		SS02	20'	20	SP	Sand, very fine grained, pinkish/white, dry, no odor.			
D	308	3.9				22	SP	Sand, very fine grained, pink, dry, no odor.			
						24					
D	263.2	3		SS02	25'	25	SP	Sand, very fine grained, pink, dry, no odor.			


								Sample Name: SS03	Date: 6/20/24-1/14/25
								Site Name: Bradley 13 Federal #001	
								Incident Number: nAPP2218939473	
								Job Number: 03B1417195	
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: KS, SD	Method: Hydro/Geoprobe
Coordinates: 32.1316518, -103.9404988								Hole Diameter: 6-12"	Total Depth: 25'
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included.									
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions	
M	ND	1,501		SS03 SS03	0.25' 1'	2	SP	Sand, very fine grained, dark brown, moist ,high odor.	
M	168	1,296		SS03	4'	4	SP	Sand, very fine grained, dark brown, moist ,high odor.	
D	ND	996		SS03 SS03	5' 6'	6	SW	Sand, fine grained, reddish/brown, dry, strong odor.	
D	168	13.7		SS03	8'	8	SW	Sand fine grained, red, dry, no odor.	
D	ND	14.6				10	SC	Sandy clay, light brown, no odor.	
D	ND	1,225				12	SC	Sandy clay, reddish/brown, dry, historical odor.	
D	963	17.9				14	SW	Sand, fine grained, red, dry, no odor.	
D	1,545	25.5				15		Historical staining.	
D						16	SW	Sand, fine grained, red, dry, no odor.	
D	425	651.7		SS03	18'	18	SW	Sand, fine grained, reddish/brown, dry, historical odor.	
D	537	769.7		SS03	20'	20	SW	Sand, fine grained, reddish/brown, dry, historical odor.	
D	884	250.5				22	GW	Gravel w/sand, reddish/brown, dry, historical odor.	
D	733	455.7				24			
D						25	SW	Sand, some gravel, fine grained, reddish brown, dry, slight odor.	

 ENSOLUM								Sample Name: SS04		Date: 6/20/24-1/14/25	
								Site Name: Bradley 13 Federal #001			
								Incident Number: nAPP2218939473			
								Job Number: 03B1417195			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: KS, SD		Method: Hydro/Geoprobe	
Coordinates: 32.1317115, -103.9403455								Hole Diameter: 6-12"		Total Depth: 25'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
D				SS04 SS04	0.25'	1	CCHE	Caliche, pinkish/white, dry, no odor.			
					1'	2	SP	Sand, very fine grained, reddish/brown, dry ,no odor.			
D	3,337	0.0		SS04	4'	4	SP	Sand, very fine grained, reddish/brown, dry ,no odor.			
M				SS04	5'	5	SP	Sand, very fine grained, reddish/brown, slightly moist, no odor.			
M		0.2		SS04	6'	6	SP	Sand,very fine grained,some caliche, reddish/brown, dry, strong odor.			
D						7	SP	Sand, very fine grained, yellowish/red, dry, no odor.			
D	1,545	0.3		SS04	8'	8	SP	Sand, very fine grained, brown, dry, no odor.			
D						9	SP	Sand, very fine grained, pink, dry, no odor.			
D	2514	0.0				10	SP	Sand, very fine grained, pink, dry, no odor.			
D	3,102	0.2				12	SP	Sand, very fine grained, pink, dry, no odor.			
						14					
D	3,920	0.1				15	CCHE	Sand/caliche, pink, dry, no odor.			
D	5,202	0.6				16	CCHE	Sand/caliche, pink, dry, no odor.			
D	6,356	1.2		SS04	18'	18	CCHE	Sand/Caliche, pink, dry, no odor.			
D	6,115	2.0		SS04	20'	20	CCHE	Sand/caliche, pink, dry, no odor.			
D	5,639.2	0.1				22	GW	Sand/gravel, pink, dry, no odor.			
						24					
D	5639.2	0.1		SS04	25'	25	GW	Gravel w/sand, light brown, dry, no odor.			

								Sample Name: LD-01	Date: 1/14-15/2025
								Site Name: Bradley 13 Federal #001	
								Incident Number: nAPP2218939473	
								Job Number: 03B1417195	
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: SD	Method: Geoprobe
Coordinates: 32.1316456, -103.9401347								Hole Diameter: 6"	Total Depth: 25'
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included.									
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions	
D	ND	0.0		LD-01	0-0.25'	1	CCHE	Caliche, white/pink, dry, no odor.	
D				LD-01	1'	2	SP	Sand, red, dry no odor.	
D	594	0.0		LD-01	4'	4	SP	Sand, red, dry no odor.	
D	229	0.0				6	SP	Sand, red, dry no odor.	
D	489	0.1				7	CCHE	Caliche, well consolidated.	
D						8	SP	Sand, pale red, no odor, dry.	
D	554.4	0.0				10	SP	Sand, pinkish/white, dry, no odor.	
D	442.4	0.0				12	SP	Sand, pinkish/white, dry, no odor.	
D	498	0.0				14	SP	Sand, pinkish/white, dry, no odor.	
D	554					16	SP	Sand, pinkish/white, dry, no odor.	
D	498					18	SP	Sand, pinkish/white, dry, no odor.	
D	677	0.0		LD-01	20'	20	SP	Sand, pinkish/white, dry, no odor.	
D	554					22	SP	Sand, very fine grained, pinkish/grey, dry, no odor.	
D						24			
D	554	0.0		LD-01	25'	25	SP	Sand, very fine grained, light red/brown, dry, no odor.	

								Sample Name: LD-02		Date: 1/15/2025			
								Site Name: Bradley 13 Federal #001					
								Incident Number: nAPP2218939473					
								Job Number: 03B1417195					
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: SD		Method: Geoprobe			
Coordinates: 32.1315488, -103.940399								Hole Diameter: 6"		Total Depth: 25'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included.													
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions					
D	ND	0.0		LD-02	0-0.25'	0	SP	Sand, very fine grained, red, dry no odor.					
D				LD-02	1'	1							
D				LD-02	5'	4						SP	Sand, very fine grained, red, dry no odor.
D				LD-02	5'	6						CCHE	Sand, some caliche, pinkish/grey, dry, no odor.
D	ND	0.0		LD-02	10'	8	SW	Sand, very fine grained, some caliche, pinkish/white, dry, no odor.					
D						10	SW	Sand, very fine grained, some caliche, pinkish/white, dry, no odor.					
D						12	SW	Sand, very fine grained, some caliche, pinkish/white, dry, no odor.					
D						14	SW	Sand, very fine grained, some caliche, pink, dry, no odor.					
D	ND	0.0		LD-02	15'	16	SW	Sand, very fine grained, some caliche, pink, dry, no odor.					
D						18	SW	Sand, very fine grained, some caliche, pink, dry, no odor.					
D						20	SW	Sand, very fine grained, some caliche, pink, dry, no odor.					
D						22	CCHE	Sand, some caliche, pink, dry, no odor.					
D	ND	0.0		LD-02	25'	24	CCHE	Sand, some caliche, pink, dry, no odor.					
D						25						CCHE	Sand, some caliche, pink, dry, no odor.

								Sample Name: LD-03		Date: 1/15/2025	
								Site Name: Bradley 13 Federal #001			
								Incident Number: nAPP2218939473			
								Job Number: 03B1417195			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: SD		Method: Geoprobe	
Coordinates: 32.1316566, -103.9405878								Hole Diameter: 6"		Total Depth: 25'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
D				LD-03	0-0.25'	1'	SP	Sand, very fine grained, red, dry no odor.			
D	324.8	0.0				2	SP	Sand, very fine grained, red, dry no odor.			
D				LD-03	5'	6	CCHE	Sand/Caliche, pinkish/white, dry, no odor.			
D						8	CCHE	Sand/Caliche, pinkish/white, dry, no odor.			
D	240.8	0.0		LD-03	10'	10	CCHE	Sand/Caliche, pinkish/white, dry, no odor.			
D						12	CCHE	Sand/Caliche, pinkish/white, dry, no odor.			
D						14	CCHE	Sand/Caliche, pinkish/white, dry, no odor.			
D				LD-03	15'	16	SW	Sand, some gravel, pinkish/white, dry, no odor.			
D						18	SW	Sand, some gravel, pinkish/white, dry, no odor.			
D	ND	0.0		LD-03	20'	20	SW	Sand, some gravel, pink, dry, no odor.			
						22	SW	Sand, some gravel, pink, dry, no odor.			
						24					
D	ND	0.0		LD-03	25'	25	GM	Silty Sand, some gravel, pink, dry, no odor			

								Sample Name: LD-04		Date: 1/15/2025	
								Site Name: Bradley 13 Federal #001			
								Incident Number: nAPP2218939473			
								Job Number: 03B1417195			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: SD		Method: Geoprobe	
Coordinates: 32.1317673, -103.9403489								Hole Diameter: 6"		Total Depth: 25'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
D				LD-04	0-0.25'	1'	CCHE	Caliche, white, dry, no odor.			
D				LD-04	1'	2'	SP	Sand, very fine grained, red, dry no odor.			
D	ND	0.1				4'	SP	Sand, very fine grained, red, dry no odor.			
D				LD-04	5'	6'	SP	Sand, very fine grained, red, dry no odor.			
D						8'	SP	Sand, very fine grained, red, dry no odor.			
D	229.6	0.6		LD-04	10'	10'	SP	Sand, very fine grained, red, dry no odor.			
D	599.2	0.0				12'	CCHE	Sand/Caliche, pinkish/grey, dry, no odor.			
						14'	SP	Sand, very fine grained, pink, dry, no odor.			
D	308	1.7		LD-04	15'	16'	SP	Sand, very fine grained, pinkish/grey, dry, no odor.			
D						18'	SP	Sand, very fine grained, pinkish/grey, dry, no odor			
D	324.8	0.0				20'	SP	Sand, very fine grained, pink, dry, no odor.			
D	425.6	1.0		LD-04	20'	22'	SP	Silty Sand, some gravel, light reddish brown, dry, no odor			
						24'					
D	ND	0.0		LD-04	25'	25'	GM	Silty Sand, large gravel, Light reddish brown, dry, no odor			



APPENDIX C

Photographic Log

**Photographic Log**

Oxy USA Inc.

Bradley 13 Federal #001

Incident Number nAPP2218939473



Photograph: 1 Date: 7/8/2022
Description: Soil staining in release footprint
View: West



Photograph: 2 Date: 7/8/2022
Description: Soil staining in release footprint
View: East



Photograph: 3 Date: 6/20/2024
Description: Site Location
View: East



Photograph: 4 Date: 6/20/2024
Description: Assessment activities
View: Southeast

**Photographic Log**

Oxy USA Inc.

Bradley 13 Federal #001

Incident Number nAPP2218939473



Photograph: 5 Date: 6/20/2024
Description: Assessment activities (SS04 location)
View: East



Photograph: 6 Date: 6/20/2024
Description: Assessment activities (SS01 location)
View: West



Photograph: 7 Date: 7/22/2024
Description: Delineation activities (SS04)
View: Southeast



Photograph: 8 Date: 7/22/2024
Description: Delineation activities (SS03)
View: South

**Photographic Log**

Oxy USA Inc.

Bradley 13 Federal #001

Incident Number nAPP2218939473



Photograph: 9 Date: 1/14/2025
Description: Delineation activities (SS04 location)
View: East



Photograph: 10 Date: 1/14/2025
Description: Delineation activities (SS01 location)
View: Southeast



Photograph: 11 Date: 1/14/2025
Description: Lateral delineation activities
View: Northeast



Photograph: 12 Date: 1/15/2025
Description: Delineation activities (SS02)
View: West



APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



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

June 27, 2024

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

RE: BRADLEY 13 FEDERAL #001

Enclosed are the results of analyses for samples received by the laboratory on 06/20/24 12:37.

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

Received: 06/20/2024
 Reported: 06/27/2024
 Project Name: BRADLEY 13 FEDERAL #001
 Project Number: 03B1417195
 Project Location: OXY

Sampling Date: 06/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SS 01 0.25 (H243648-01)

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	06/25/2024	ND	1.83	91.4	2.00	15.4	
Toluene*	<0.050	0.050	06/25/2024	ND	1.84	91.9	2.00	9.36	
Ethylbenzene*	0.196	0.050	06/25/2024	ND	1.98	98.9	2.00	6.72	GC-NC1
Total Xylenes*	1.52	0.150	06/25/2024	ND	5.85	97.5	6.00	6.15	GC-NC1
Total BTEx	1.71	0.300	06/25/2024	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 152 % 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	400	16.0	06/24/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	222	100	06/24/2024	ND	181	90.4	200	2.70	
DRO >C10-C28*	25500	100	06/24/2024	ND	183	91.3	200	2.38	
EXT DRO >C28-C36	8070	100	06/24/2024	ND					

Surrogate: 1-Chlorooctane 130 % 48.2-134

Surrogate: 1-Chlorooctadecane 485 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 06/20/2024
 Reported: 06/27/2024
 Project Name: BRADLEY 13 FEDERAL #001
 Project Number: 03B1417195
 Project Location: OXY

Sampling Date: 06/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SS 02 0.25 (H243648-02)

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	06/25/2024	ND	1.83	91.4	2.00	15.4	
Toluene*	<0.050	0.050	06/25/2024	ND	1.84	91.9	2.00	9.36	
Ethylbenzene*	0.352	0.050	06/25/2024	ND	1.98	98.9	2.00	6.72	GC-NC1
Total Xylenes*	2.28	0.150	06/25/2024	ND	5.85	97.5	6.00	6.15	GC-NC1
Total BTEX	2.63	0.300	06/25/2024	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 152 % 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	3760	16.0	06/24/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg	Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	348	100	06/24/2024	ND	181	90.4	200	2.70	
DRO >C10-C28*	23100	100	06/24/2024	ND	183	91.3	200	2.38	
EXT DRO >C28-C36	6630	100	06/24/2024	ND					

Surrogate: 1-Chlorooctane 152 % 48.2-134

Surrogate: 1-Chlorooctadecane 468 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 06/20/2024
 Reported: 06/27/2024
 Project Name: BRADLEY 13 FEDERAL #001
 Project Number: 03B1417195
 Project Location: OXY

Sampling Date: 06/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SS 03 0.25 (H243648-03)

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	06/25/2024	ND	1.83	91.4	2.00	15.4	
Toluene*	<0.050	0.050	06/25/2024	ND	1.84	91.9	2.00	9.36	
Ethylbenzene*	0.802	0.050	06/25/2024	ND	1.98	98.9	2.00	6.72	GC-NC1
Total Xylenes*	4.69	0.150	06/25/2024	ND	5.85	97.5	6.00	6.15	GC-NC1
Total BTEX	5.49	0.300	06/25/2024	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 203 % 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	06/24/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg	Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	509	100	06/24/2024	ND	181	90.4	200	2.70	
DRO >C10-C28*	27700	100	06/24/2024	ND	183	91.3	200	2.38	
EXT DRO >C28-C36	7100	100	06/24/2024	ND					

Surrogate: 1-Chlorooctane 149 % 48.2-134

Surrogate: 1-Chlorooctadecane 490 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 06/20/2024
 Reported: 06/27/2024
 Project Name: BRADLEY 13 FEDERAL #001
 Project Number: 03B1417195
 Project Location: OXY

Sampling Date: 06/20/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SS 04 0.25 (H243648-04)

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	06/25/2024	ND	1.83	91.4	2.00	15.4	
Toluene*	<0.050	0.050	06/25/2024	ND	1.84	91.9	2.00	9.36	
Ethylbenzene*	<0.050	0.050	06/25/2024	ND	1.98	98.9	2.00	6.72	
Total Xylenes*	<0.150	0.150	06/25/2024	ND	5.85	97.5	6.00	6.15	
Total BTEX	<0.300	0.300	06/25/2024	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	6320	16.0	06/24/2024	ND	416	104	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	06/24/2024	ND	181	90.4	200	2.70	
DRO >C10-C28*	3060	10.0	06/24/2024	ND	183	91.3	200	2.38	
EXT DRO >C28-C36	1000	10.0	06/24/2024	ND					

Surrogate: 1-Chlorooctane 92.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
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

(575) 393-2326 FAX (575) 393-2476		BILL TO		ANALYSIS REQUEST	
Company Name:	Ensolum, LLC	P.O. #:			
Project Manager:	Beaux Jennings	Company:	Oxy USA, Inc.		
Address:	601 N. Marientfeld St. STE 400	Attn:	Wade Dittich		
City:	Midland	State:	TX	Zip:	79701
Phone #:	210-219-8858	Fax #:			
Project #:	D3B1412195	Project Owner:			
Project Name:	Bradley 13 Federal #001	State:		Zip:	
Project Location:		Phone #:	575-390-2828		
Sample Name:	Shimada / Kery	Fax #:			
<small>FOR LAB USE ONLY</small>					
Lab I.D.	#H43C48	Sample I.D.		(G/RAB OR (C)/COMP.	
		Sample Depth (feet)		# CONTAINERS	
				GROUNDWATER	
				WASTEWATER	
				SOIL	
				OIL	
				SLUDGE	
				OTHER :	
				ACID/BASE:	
				ICE / COOL	
				OTHER :	
		DATE	TIME	SAMPLING	
	SS 01	Q. 25	C 1	-	6-20-24 10 3L X BTEx TP+ CHloride 4500
	SS 02	Q. 25	C 1	-	6-20-24 10 35 X
	SS 03	Q. 25	C 1	-	6-20-24 10 33 X
	SS 04	Q. 25	C 1	-	6-20-24 10 41 X

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Relinquished By: _____
Date: 6-20-24 Time: 1337 Received By: Speed Riquely Verbal Result: Yes No Add'l Phone #: Blennings@ensolum.com

REMARKS: Turnaround Time: Standard Rush Bacteria (only) Sample Condition Cool Intact Observed Temp. °C Corrected Temp. °C Thermometer ID: #443 Correction Factor: -0.5°C #140



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

July 26, 2024

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

RE: BRADLEY 13 FEDERAL #001

Enclosed are the results of analyses for samples received by the laboratory on 07/23/24 12:50.

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 style with a large, stylized 'C' and 'K'.

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 07/23/2024
 Reported: 07/26/2024
 Project Name: BRADLEY 13 FEDERAL #001
 Project Number: 03B1417195
 Project Location: OXY 32.132,-103.940297

Sampling Date: 07/22/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SS01 8' (H244368-01)

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	07/23/2024	ND	2.00	100	2.00	0.0556	
Toluene*	<0.050	0.050	07/23/2024	ND	1.94	97.2	2.00	0.874	
Ethylbenzene*	<0.050	0.050	07/23/2024	ND	2.00	100	2.00	1.56	
Total Xylenes*	<0.150	0.150	07/23/2024	ND	5.90	98.3	6.00	1.63	
Total BTEx	<0.300	0.300	07/23/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.1 % 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	1250	16.0	07/24/2024	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/24/2024	ND	196	97.8	200	9.42	
DRO >C10-C28*	<10.0	10.0	07/24/2024	ND	195	97.4	200	9.98	
EXT DRO >C28-C36	<10.0	10.0	07/24/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 07/23/2024
 Reported: 07/26/2024
 Project Name: BRADLEY 13 FEDERAL #001
 Project Number: 03B1417195
 Project Location: OXY 32.132,-103.940297

Sampling Date: 07/22/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SS03 5' (H244368-02)

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	07/23/2024	ND	2.00	100	2.00	0.0556	
Toluene*	<0.050	0.050	07/23/2024	ND	1.94	97.2	2.00	0.874	
Ethylbenzene*	<0.050	0.050	07/23/2024	ND	2.00	100	2.00	1.56	
Total Xylenes*	<0.150	0.150	07/23/2024	ND	5.90	98.3	6.00	1.63	
Total BTEX	<0.300	0.300	07/23/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.1 % 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	07/24/2024	ND	448	112	400	3.51	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/24/2024	ND	196	97.8	200	9.42	
DRO >C10-C28*	<10.0	10.0	07/24/2024	ND	195	97.4	200	9.98	
EXT DRO >C28-C36	<10.0	10.0	07/24/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 07/23/2024
 Reported: 07/26/2024
 Project Name: BRADLEY 13 FEDERAL #001
 Project Number: 03B1417195
 Project Location: OXY 32.132,-103.940297

Sampling Date: 07/22/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SS03 6' (H244368-03)

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	07/23/2024	ND	2.00	100	2.00	0.0556		
Toluene*	<0.050	0.050	07/23/2024	ND	1.94	97.2	2.00	0.874		
Ethylbenzene*	<0.050	0.050	07/23/2024	ND	2.00	100	2.00	1.56		
Total Xylenes*	<0.150	0.150	07/23/2024	ND	5.90	98.3	6.00	1.63		
Total BTEX	<0.300	0.300	07/23/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.3 % 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	560	16.0	07/24/2024	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/24/2024	ND	196	97.8	200	9.42	
DRO >C10-C28*	154	10.0	07/24/2024	ND	195	97.4	200	9.98	
EXT DRO >C28-C36	23.2	10.0	07/24/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

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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



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

July 29, 2024

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

RE: BRADLEY 13 FEDERAL #001

Enclosed are the results of analyses for samples received by the laboratory on 07/23/24 12:55.

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

Received: 07/23/2024
 Reported: 07/29/2024
 Project Name: BRADLEY 13 FEDERAL #001
 Project Number: 03B1417195
 Project Location: OXY 32.132,-103.940297

Sampling Date: 07/22/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SS04 1' (H244370-01)

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	07/24/2024	ND	1.99	99.5	2.00	4.09	
Toluene*	<0.050	0.050	07/24/2024	ND	1.96	97.9	2.00	4.00	
Ethylbenzene*	<0.050	0.050	07/24/2024	ND	1.98	99.2	2.00	4.19	
Total Xylenes*	<0.150	0.150	07/24/2024	ND	5.87	97.9	6.00	3.87	
Total BTEX	<0.300	0.300	07/24/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 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	432	16.0	07/24/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/25/2024	ND	212	106	200	2.44	
DRO >C10-C28*	<10.0	10.0	07/25/2024	ND	180	90.2	200	1.48	
EXT DRO >C28-C36	<10.0	10.0	07/25/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 127 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 07/23/2024
 Reported: 07/29/2024
 Project Name: BRADLEY 13 FEDERAL #001
 Project Number: 03B1417195
 Project Location: OXY 32.132,-103.940297

Sampling Date: 07/22/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SS04 4' (H244370-02)

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	07/24/2024	ND	1.99	99.5	2.00	4.09		
Toluene*	<0.050	0.050	07/24/2024	ND	1.96	97.9	2.00	4.00		
Ethylbenzene*	<0.050	0.050	07/24/2024	ND	1.98	99.2	2.00	4.19		
Total Xylenes*	<0.150	0.150	07/24/2024	ND	5.87	97.9	6.00	3.87		
Total BTEx	<0.300	0.300	07/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 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	1600	16.0	07/24/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/25/2024	ND	212	106	200	2.44	
DRO >C10-C28*	<10.0	10.0	07/25/2024	ND	180	90.2	200	1.48	
EXT DRO >C28-C36	<10.0	10.0	07/25/2024	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 07/23/2024
 Reported: 07/29/2024
 Project Name: BRADLEY 13 FEDERAL #001
 Project Number: 03B1417195
 Project Location: OXY 32.132,-103.940297

Sampling Date: 07/22/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SS04 5' (H244370-03)

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	07/24/2024	ND	1.99	99.5	2.00	4.09		
Toluene*	<0.050	0.050	07/24/2024	ND	1.96	97.9	2.00	4.00		
Ethylbenzene*	<0.050	0.050	07/24/2024	ND	1.98	99.2	2.00	4.19		
Total Xylenes*	<0.150	0.150	07/24/2024	ND	5.87	97.9	6.00	3.87		
Total BTEx	<0.300	0.300	07/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 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	800	16.0	07/24/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/24/2024	ND	212	106	200	2.44	
DRO >C10-C28*	<10.0	10.0	07/24/2024	ND	180	90.2	200	1.48	
EXT DRO >C28-C36	<10.0	10.0	07/24/2024	ND					

Surrogate: 1-Chlorooctane 118 % 48.2-134

Surrogate: 1-Chlorooctadecane 144 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 07/23/2024
 Reported: 07/29/2024
 Project Name: BRADLEY 13 FEDERAL #001
 Project Number: 03B1417195
 Project Location: OXY 32.132,-103.940297

Sampling Date: 07/22/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SS01 1' (H244370-04)

BTX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	2.02	1.00	07/24/2024	ND	1.99	99.5	2.00	4.09	GC-NC1
Toluene*	15.2	1.00	07/24/2024	ND	1.96	97.9	2.00	4.00	GC-NC1
Ethylbenzene*	18.9	1.00	07/24/2024	ND	1.98	99.2	2.00	4.19	GC-NC1
Total Xylenes*	58.3	3.00	07/24/2024	ND	5.87	97.9	6.00	3.87	GC-NC1
Total BTX	94.4	6.00	07/24/2024	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 154 % 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	272	16.0	07/24/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	2970	50.0	07/24/2024	ND	212	106	200	2.44	
DRO >C10-C28*	6110	50.0	07/24/2024	ND	180	90.2	200	1.48	
EXT DRO >C28-C36	1190	50.0	07/24/2024	ND					

Surrogate: 1-Chlorooctane 196 % 48.2-134

Surrogate: 1-Chlorooctadecane 183 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 07/23/2024
 Reported: 07/29/2024
 Project Name: BRADLEY 13 FEDERAL #001
 Project Number: 03B1417195
 Project Location: OXY 32.132,-103.940297

Sampling Date: 07/22/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SS01 4' (H244370-05)

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	07/24/2024	ND	1.99	99.5	2.00	4.09	
Toluene*	0.396	0.050	07/24/2024	ND	1.96	97.9	2.00	4.00	GC-NC1
Ethylbenzene*	1.05	0.050	07/24/2024	ND	1.98	99.2	2.00	4.19	GC-NC1
Total Xylenes*	3.54	0.150	07/24/2024	ND	5.87	97.9	6.00	3.87	GC-NC1
Total BTEx	4.99	0.300	07/24/2024	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 219 % 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	800	16.0	07/24/2024	ND	416	104	400	0.00	

TPH 8015M			mg/kg					Analyzed By: MS	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	237	50.0	07/24/2024	ND	212	106	200	2.44	
DRO >C10-C28*	1120	50.0	07/24/2024	ND	180	90.2	200	1.48	
EXT DRO >C28-C36	229	50.0	07/24/2024	ND					

Surrogate: 1-Chlorooctane 119 % 48.2-134

Surrogate: 1-Chlorooctadecane 144 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 07/23/2024
 Reported: 07/29/2024
 Project Name: BRADLEY 13 FEDERAL #001
 Project Number: 03B1417195
 Project Location: OXY 32.132,-103.940297

Sampling Date: 07/22/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SS03 1' (H244370-06)

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	07/24/2024	ND	1.99	99.5	2.00	4.09		
Toluene*	<0.050	0.050	07/24/2024	ND	1.96	97.9	2.00	4.00	GC-NC	
Ethylbenzene*	<0.050	0.050	07/24/2024	ND	1.98	99.2	2.00	4.19	GC-NC	
Total Xylenes*	1.01	0.150	07/24/2024	ND	5.87	97.9	6.00	3.87	GC-NC1	
Total BTEX	1.01	0.300	07/24/2024	ND					GC-NC1	

Surrogate: 4-Bromofluorobenzene (PID) 744 % 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	07/24/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	689	50.0	07/24/2024	ND	212	106	200	2.44	
DRO >C10-C28*	5440	50.0	07/24/2024	ND	180	90.2	200	1.48	
EXT DRO >C28-C36	1310	50.0	07/24/2024	ND					

Surrogate: 1-Chlorooctane 147 % 48.2-134

Surrogate: 1-Chlorooctadecane 218 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 07/23/2024
 Reported: 07/29/2024
 Project Name: BRADLEY 13 FEDERAL #001
 Project Number: 03B1417195
 Project Location: OXY 32.132,-103.940297

Sampling Date: 07/22/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SS03 4' (H244370-07)

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	07/24/2024	ND	1.99	99.5	2.00	4.09	GC-NC
Toluene*	0.428	0.050	07/24/2024	ND	1.96	97.9	2.00	4.00	GC-NC1
Ethylbenzene*	0.680	0.050	07/24/2024	ND	1.98	99.2	2.00	4.19	GC-NC1
Total Xylenes*	0.818	0.150	07/24/2024	ND	5.87	97.9	6.00	3.87	GC-NC1
Total BTEx	1.93	0.300	07/24/2024	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 444 % 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	464	16.0	07/24/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg	Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	396	50.0	07/24/2024	ND	212	106	200	2.44	
DRO >C10-C28*	3410	50.0	07/24/2024	ND	180	90.2	200	1.48	
EXT DRO >C28-C36	677	50.0	07/24/2024	ND					

Surrogate: 1-Chlorooctane 160 % 48.2-134

Surrogate: 1-Chlorooctadecane 209 % 49.1-148

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-05	The surrogate recovery is outside of lab established statistical control limits but still within method limits. Data is not adversely affected.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
GC-NC	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

January 21, 2025

HADLIE GREEN

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: BRADLEY 13 FEDERAL #001

Enclosed are the results of analyses for samples received by the laboratory on 01/17/25 11:49.

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

Received: 01/17/2025
 Reported: 01/21/2025
 Project Name: BRADLEY 13 FEDERAL #001
 Project Number: 03B1417195
 Project Location: OXY 32.132,-103.940297

Sampling Date: 01/14/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SS - 01 10' (H250285-01)

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	01/18/2025	ND	1.84	91.9	2.00	2.60	
Toluene*	<0.050	0.050	01/18/2025	ND	1.98	98.8	2.00	1.51	
Ethylbenzene*	<0.050	0.050	01/18/2025	ND	1.94	97.1	2.00	0.480	
Total Xylenes*	<0.150	0.150	01/18/2025	ND	5.70	95.0	6.00	0.452	
Total BTEX	<0.300	0.300	01/18/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.7 % 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	01/20/2025	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	01/17/2025	ND	210	105	200	5.17	
DRO >C10-C28*	<10.0	10.0	01/17/2025	ND	210	105	200	4.54	
EXT DRO >C28-C36	<10.0	10.0	01/17/2025	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 01/17/2025
 Reported: 01/21/2025
 Project Name: BRADLEY 13 FEDERAL #001
 Project Number: 03B1417195
 Project Location: OXY 32.132,-103.940297

Sampling Date: 01/14/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SS - 01 16' (H250285-02)

BTEx 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.167	0.050	01/18/2025	ND	1.84	91.9	2.00	2.60	GC-NC1
Toluene*	0.391	0.050	01/18/2025	ND	1.98	98.8	2.00	1.51	GC-NC1
Ethylbenzene*	0.954	0.050	01/18/2025	ND	1.94	97.1	2.00	0.480	GC-NC1
Total Xylenes*	2.31	0.150	01/18/2025	ND	5.70	95.0	6.00	0.452	GC-NC1
Total BTEX	3.82	0.300	01/18/2025	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 140 % 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	01/20/2025	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*	27.6	10.0	01/17/2025	ND	210	105	200	5.17	
DRO >C10-C28*	66.5	10.0	01/17/2025	ND	210	105	200	4.54	
EXT DRO >C28-C36	<10.0	10.0	01/17/2025	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 01/17/2025
 Reported: 01/21/2025
 Project Name: BRADLEY 13 FEDERAL #001
 Project Number: 03B1417195
 Project Location: OXY 32.132,-103.940297

Sampling Date: 01/14/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SS - 01 25' (H250285-03)

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	01/18/2025	ND	1.84	91.9	2.00	2.60		
Toluene*	<0.050	0.050	01/18/2025	ND	1.98	98.8	2.00	1.51		
Ethylbenzene*	<0.050	0.050	01/18/2025	ND	1.94	97.1	2.00	0.480		
Total Xylenes*	0.167	0.150	01/18/2025	ND	5.70	95.0	6.00	0.452	GC-NC1	
Total BTEX	<0.300	0.300	01/18/2025	ND					GC-NC1	

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	01/20/2025	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	01/17/2025	ND	210	105	200	5.17	
DRO >C10-C28*	<10.0	10.0	01/17/2025	ND	210	105	200	4.54	
EXT DRO >C28-C36	<10.0	10.0	01/17/2025	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 01/17/2025
 Reported: 01/21/2025
 Project Name: BRADLEY 13 FEDERAL #001
 Project Number: 03B1417195
 Project Location: OXY 32.132,-103.940297

Sampling Date: 01/15/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SS - 02 4' (H250285-04)

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	01/18/2025	ND	1.84	91.9	2.00	2.60	
Toluene*	<0.050	0.050	01/18/2025	ND	1.98	98.8	2.00	1.51	
Ethylbenzene*	<0.050	0.050	01/18/2025	ND	1.94	97.1	2.00	0.480	
Total Xylenes*	<0.150	0.150	01/18/2025	ND	5.70	95.0	6.00	0.452	
Total BTEX	<0.300	0.300	01/18/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.3 % 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	01/20/2025	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	01/17/2025	ND	210	105	200	5.17	
DRO >C10-C28*	247	10.0	01/17/2025	ND	210	105	200	4.54	
EXT DRO >C28-C36	44.0	10.0	01/17/2025	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 01/17/2025
 Reported: 01/21/2025
 Project Name: BRADLEY 13 FEDERAL #001
 Project Number: 03B1417195
 Project Location: OXY 32.132,-103.940297

Sampling Date: 01/15/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SS - 02 6' (H250285-05)

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	01/18/2025	ND	2.05	102	2.00	6.40	QM-07
Toluene*	<0.050	0.050	01/18/2025	ND	2.21	110	2.00	4.21	QM-07
Ethylbenzene*	<0.050	0.050	01/18/2025	ND	2.28	114	2.00	2.33	QM-07
Total Xylenes*	<0.150	0.150	01/18/2025	ND	6.89	115	6.00	1.39	QM-07
Total BTX	<0.300	0.300	01/18/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	01/20/2025	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	01/17/2025	ND	210	105	200	5.17	
DRO >C10-C28*	69.0	10.0	01/17/2025	ND	210	105	200	4.54	
EXT DRO >C28-C36	<10.0	10.0	01/17/2025	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 01/17/2025
 Reported: 01/21/2025
 Project Name: BRADLEY 13 FEDERAL #001
 Project Number: 03B1417195
 Project Location: OXY 32.132,-103.940297

Sampling Date: 01/15/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SS - 02 12' (H250285-06)

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	01/18/2025	ND	2.05	102	2.00	6.40	
Toluene*	<0.050	0.050	01/18/2025	ND	2.21	110	2.00	4.21	
Ethylbenzene*	<0.050	0.050	01/18/2025	ND	2.28	114	2.00	2.33	
Total Xylenes*	<0.150	0.150	01/18/2025	ND	6.89	115	6.00	1.39	
Total BTEX	<0.300	0.300	01/18/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 122 % 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	01/20/2025	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*	12.1	10.0	01/17/2025	ND	210	105	200	5.17	
DRO >C10-C28*	829	10.0	01/17/2025	ND	210	105	200	4.54	
EXT DRO >C28-C36	161	10.0	01/17/2025	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 01/17/2025
 Reported: 01/21/2025
 Project Name: BRADLEY 13 FEDERAL #001
 Project Number: 03B1417195
 Project Location: OXY 32.132,-103.940297

Sampling Date: 01/15/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SS - 02 20' (H250285-07)

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	01/18/2025	ND	2.05	102	2.00	6.40		
Toluene*	<0.050	0.050	01/18/2025	ND	2.21	110	2.00	4.21		
Ethylbenzene*	<0.050	0.050	01/18/2025	ND	2.28	114	2.00	2.33		
Total Xylenes*	<0.150	0.150	01/18/2025	ND	6.89	115	6.00	1.39		
Total BTX	<0.300	0.300	01/18/2025	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	80.0	16.0	01/20/2025	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	01/17/2025	ND	210	105	200	5.17	
DRO >C10-C28*	<10.0	10.0	01/17/2025	ND	210	105	200	4.54	
EXT DRO >C28-C36	<10.0	10.0	01/17/2025	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 01/17/2025
 Reported: 01/21/2025
 Project Name: BRADLEY 13 FEDERAL #001
 Project Number: 03B1417195
 Project Location: OXY 32.132,-103.940297

Sampling Date: 01/15/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SS - 02 25' (H250285-08)

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	01/18/2025	ND	2.05	102	2.00	6.40		
Toluene*	<0.050	0.050	01/18/2025	ND	2.21	110	2.00	4.21		
Ethylbenzene*	<0.050	0.050	01/18/2025	ND	2.28	114	2.00	2.33		
Total Xylenes*	<0.150	0.150	01/18/2025	ND	6.89	115	6.00	1.39		
Total BTEX	<0.300	0.300	01/18/2025	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	48.0	16.0	01/20/2025	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	01/17/2025	ND	210	105	200	5.17	
DRO >C10-C28*	<10.0	10.0	01/17/2025	ND	210	105	200	4.54	
EXT DRO >C28-C36	<10.0	10.0	01/17/2025	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 01/17/2025
 Reported: 01/21/2025
 Project Name: BRADLEY 13 FEDERAL #001
 Project Number: 03B1417195
 Project Location: OXY 32.132,-103.940297

Sampling Date: 01/14/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SS - 03 8' (H250285-09)

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	01/18/2025	ND	2.05	102	2.00	6.40	
Toluene*	<0.050	0.050	01/18/2025	ND	2.21	110	2.00	4.21	
Ethylbenzene*	<0.050	0.050	01/18/2025	ND	2.28	114	2.00	2.33	
Total Xylenes*	<0.150	0.150	01/18/2025	ND	6.89	115	6.00	1.39	
Total BTEX	<0.300	0.300	01/18/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	32.0	16.0	01/20/2025	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	01/18/2025	ND	210	105	200	5.17	
DRO >C10-C28*	<10.0	10.0	01/18/2025	ND	210	105	200	4.54	
EXT DRO >C28-C36	<10.0	10.0	01/18/2025	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 01/17/2025
 Reported: 01/21/2025
 Project Name: BRADLEY 13 FEDERAL #001
 Project Number: 03B1417195
 Project Location: OXY 32.132,-103.940297

Sampling Date: 01/14/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SS - 03 18' (H250285-10)

BTEx 8021B		mg/kg	Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.297	0.050	01/18/2025	ND	2.05	102	2.00	6.40	GC-NC1
Toluene*	1.36	0.050	01/18/2025	ND	2.21	110	2.00	4.21	GC-NC1
Ethylbenzene*	2.19	0.050	01/18/2025	ND	2.28	114	2.00	2.33	GC-NC1
Total Xylenes*	5.58	0.150	01/18/2025	ND	6.89	115	6.00	1.39	GC-NC1
Total BTEX	9.43	0.300	01/18/2025	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 204 % 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	144	16.0	01/20/2025	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*	174	10.0	01/18/2025	ND	210	105	200	5.17	
DRO >C10-C28*	581	10.0	01/18/2025	ND	210	105	200	4.54	
EXT DRO >C28-C36	133	10.0	01/18/2025	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 01/17/2025
 Reported: 01/21/2025
 Project Name: BRADLEY 13 FEDERAL #001
 Project Number: 03B1417195
 Project Location: OXY 32.132,-103.940297

Sampling Date: 01/14/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SS - 03 20' (H250285-11)

BTEx 8021B		mg/kg	Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.248	0.050	01/18/2025	ND	2.05	102	2.00	6.40	GC-NC1
Toluene*	1.19	0.050	01/18/2025	ND	2.21	110	2.00	4.21	GC-NC1
Ethylbenzene*	1.89	0.050	01/18/2025	ND	2.28	114	2.00	2.33	GC-NC1
Total Xylenes*	4.80	0.150	01/18/2025	ND	6.89	115	6.00	1.39	GC-NC1
Total BTEX	8.13	0.300	01/18/2025	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 199 % 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	224	16.0	01/20/2025	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*	147	10.0	01/18/2025	ND	210	105	200	5.17	
DRO >C10-C28*	403	10.0	01/18/2025	ND	210	105	200	4.54	
EXT DRO >C28-C36	80.9	10.0	01/18/2025	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 01/17/2025
 Reported: 01/21/2025
 Project Name: BRADLEY 13 FEDERAL #001
 Project Number: 03B1417195
 Project Location: OXY 32.132,-103.940297

Sampling Date: 01/14/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SS - 04 8' (H250285-12)

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	01/18/2025	ND	2.05	102	2.00	6.40	
Toluene*	<0.050	0.050	01/18/2025	ND	2.21	110	2.00	4.21	
Ethylbenzene*	<0.050	0.050	01/18/2025	ND	2.28	114	2.00	2.33	
Total Xylenes*	<0.150	0.150	01/18/2025	ND	6.89	115	6.00	1.39	
Total BTEX	<0.300	0.300	01/18/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	848	16.0	01/20/2025	ND	416	104	400	3.77	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	01/18/2025	ND	210	105	200	5.17	
DRO >C10-C28*	<10.0	10.0	01/18/2025	ND	210	105	200	4.54	
EXT DRO >C28-C36	<10.0	10.0	01/18/2025	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 01/17/2025
 Reported: 01/21/2025
 Project Name: BRADLEY 13 FEDERAL #001
 Project Number: 03B1417195
 Project Location: OXY 32.132,-103.940297

Sampling Date: 01/14/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SS - 04 18' (H250285-13)

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	01/18/2025	ND	2.05	102	2.00	6.40	
Toluene*	<0.050	0.050	01/18/2025	ND	2.21	110	2.00	4.21	
Ethylbenzene*	<0.050	0.050	01/18/2025	ND	2.28	114	2.00	2.33	
Total Xylenes*	<0.150	0.150	01/18/2025	ND	6.89	115	6.00	1.39	
Total BTX	<0.300	0.300	01/18/2025	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	1410	16.0	01/20/2025	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	01/18/2025	ND	210	105	200	5.17	
DRO >C10-C28*	<10.0	10.0	01/18/2025	ND	210	105	200	4.54	
EXT DRO >C28-C36	<10.0	10.0	01/18/2025	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 01/17/2025
 Reported: 01/21/2025
 Project Name: BRADLEY 13 FEDERAL #001
 Project Number: 03B1417195
 Project Location: OXY 32.132,-103.940297

Sampling Date: 01/14/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SS - 04 25' (H250285-14)

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	01/18/2025	ND	2.05	102	2.00	6.40		
Toluene*	<0.050	0.050	01/18/2025	ND	2.21	110	2.00	4.21		
Ethylbenzene*	<0.050	0.050	01/18/2025	ND	2.28	114	2.00	2.33		
Total Xylenes*	<0.150	0.150	01/18/2025	ND	6.89	115	6.00	1.39		
Total BTX	<0.300	0.300	01/18/2025	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	7360	16.0	01/20/2025	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	01/18/2025	ND	210	105	200	5.17	
DRO >C10-C28*	<10.0	10.0	01/18/2025	ND	210	105	200	4.54	
EXT DRO >C28-C36	<10.0	10.0	01/18/2025	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 01/17/2025
 Reported: 01/21/2025
 Project Name: BRADLEY 13 FEDERAL #001
 Project Number: 03B1417195
 Project Location: OXY 32.132,-103.940297

Sampling Date: 01/15/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: LD - 01 0-.25' (H250285-15)

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	01/18/2025	ND	2.05	102	2.00	6.40	
Toluene*	<0.050	0.050	01/18/2025	ND	2.21	110	2.00	4.21	
Ethylbenzene*	<0.050	0.050	01/18/2025	ND	2.28	114	2.00	2.33	
Total Xylenes*	<0.150	0.150	01/18/2025	ND	6.89	115	6.00	1.39	
Total BTEX	<0.300	0.300	01/18/2025	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	640	16.0	01/20/2025	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	01/18/2025	ND	210	105	200	5.17	
DRO >C10-C28*	<10.0	10.0	01/18/2025	ND	210	105	200	4.54	
EXT DRO >C28-C36	<10.0	10.0	01/18/2025	ND					

Surrogate: 1-Chlorooctane 95.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 01/17/2025
 Reported: 01/21/2025
 Project Name: BRADLEY 13 FEDERAL #001
 Project Number: 03B1417195
 Project Location: OXY 32.132,-103.940297

Sampling Date: 01/15/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: LD - 01 1' (H250285-16)

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	01/18/2025	ND	2.05	102	2.00	6.40	
Toluene*	<0.050	0.050	01/18/2025	ND	2.21	110	2.00	4.21	
Ethylbenzene*	<0.050	0.050	01/18/2025	ND	2.28	114	2.00	2.33	
Total Xylenes*	<0.150	0.150	01/18/2025	ND	6.89	115	6.00	1.39	
Total BTX	<0.300	0.300	01/18/2025	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	256	16.0	01/20/2025	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	01/18/2025	ND	210	105	200	5.17	
DRO >C10-C28*	<10.0	10.0	01/18/2025	ND	210	105	200	4.54	
EXT DRO >C28-C36	<10.0	10.0	01/18/2025	ND					

Surrogate: 1-Chlorooctane 94.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 01/17/2025
 Reported: 01/21/2025
 Project Name: BRADLEY 13 FEDERAL #001
 Project Number: 03B1417195
 Project Location: OXY 32.132,-103.940297

Sampling Date: 01/14/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: LD - 01 4' (H250285-17)

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	01/18/2025	ND	2.05	102	2.00	6.40	
Toluene*	<0.050	0.050	01/18/2025	ND	2.21	110	2.00	4.21	
Ethylbenzene*	<0.050	0.050	01/18/2025	ND	2.28	114	2.00	2.33	
Total Xylenes*	<0.150	0.150	01/18/2025	ND	6.89	115	6.00	1.39	
Total BTEX	<0.300	0.300	01/18/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	112	16.0	01/20/2025	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	01/18/2025	ND	210	105	200	5.17	
DRO >C10-C28*	<10.0	10.0	01/18/2025	ND	210	105	200	4.54	
EXT DRO >C28-C36	<10.0	10.0	01/18/2025	ND					

Surrogate: 1-Chlorooctane 97.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 01/17/2025
 Reported: 01/21/2025
 Project Name: BRADLEY 13 FEDERAL #001
 Project Number: 03B1417195
 Project Location: OXY 32.132,-103.940297

Sampling Date: 01/14/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: LD - 01 20' (H250285-18)

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	01/18/2025	ND	2.05	102	2.00	6.40		
Toluene*	<0.050	0.050	01/18/2025	ND	2.21	110	2.00	4.21		
Ethylbenzene*	<0.050	0.050	01/18/2025	ND	2.28	114	2.00	2.33		
Total Xylenes*	<0.150	0.150	01/18/2025	ND	6.89	115	6.00	1.39		
Total BTX	<0.300	0.300	01/18/2025	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	288	16.0	01/20/2025	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	01/18/2025	ND	210	105	200	5.17	
DRO >C10-C28*	<10.0	10.0	01/18/2025	ND	210	105	200	4.54	
EXT DRO >C28-C36	<10.0	10.0	01/18/2025	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 01/17/2025
 Reported: 01/21/2025
 Project Name: BRADLEY 13 FEDERAL #001
 Project Number: 03B1417195
 Project Location: OXY 32.132,-103.940297

Sampling Date: 01/14/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: LD - 01 25' (H250285-19)

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	01/18/2025	ND	2.05	102	2.00	6.40		
Toluene*	<0.050	0.050	01/18/2025	ND	2.21	110	2.00	4.21		
Ethylbenzene*	<0.050	0.050	01/18/2025	ND	2.28	114	2.00	2.33		
Total Xylenes*	<0.150	0.150	01/18/2025	ND	6.89	115	6.00	1.39		
Total BTX	<0.300	0.300	01/18/2025	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	128	16.0	01/20/2025	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	01/18/2025	ND	210	105	200	5.17	
DRO >C10-C28*	<10.0	10.0	01/18/2025	ND	210	105	200	4.54	
EXT DRO >C28-C36	<10.0	10.0	01/18/2025	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 01/17/2025
 Reported: 01/21/2025
 Project Name: BRADLEY 13 FEDERAL #001
 Project Number: 03B1417195
 Project Location: OXY 32.132,-103.940297

Sampling Date: 01/15/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: LD - 02 0-.25' (H250285-20)

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	01/18/2025	ND	2.05	102	2.00	6.40		
Toluene*	<0.050	0.050	01/18/2025	ND	2.21	110	2.00	4.21		
Ethylbenzene*	<0.050	0.050	01/18/2025	ND	2.28	114	2.00	2.33		
Total Xylenes*	<0.150	0.150	01/18/2025	ND	6.89	115	6.00	1.39		
Total BTEX	<0.300	0.300	01/18/2025	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	<16.0	16.0	01/20/2025	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	01/18/2025	ND	210	105	200	5.17	
DRO >C10-C28*	<10.0	10.0	01/18/2025	ND	210	105	200	4.54	
EXT DRO >C28-C36	<10.0	10.0	01/18/2025	ND					

Surrogate: 1-Chlorooctane 97.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 01/17/2025
 Reported: 01/21/2025
 Project Name: BRADLEY 13 FEDERAL #001
 Project Number: 03B1417195
 Project Location: OXY 32.132,-103.940297

Sampling Date: 01/15/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: LD - 02 1' (H250285-21)

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	01/18/2025	ND	2.05	102	2.00	6.40		
Toluene*	<0.050	0.050	01/18/2025	ND	2.21	110	2.00	4.21		
Ethylbenzene*	<0.050	0.050	01/18/2025	ND	2.28	114	2.00	2.33		
Total Xylenes*	<0.150	0.150	01/18/2025	ND	6.89	115	6.00	1.39		
Total BTEX	<0.300	0.300	01/18/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	01/20/2025	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	01/18/2025	ND	228	114	200	5.46	
DRO >C10-C28*	<10.0	10.0	01/18/2025	ND	205	103	200	5.37	
EXT DRO >C28-C36	<10.0	10.0	01/18/2025	ND					

Surrogate: 1-Chlorooctane 98.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 01/17/2025
 Reported: 01/21/2025
 Project Name: BRADLEY 13 FEDERAL #001
 Project Number: 03B1417195
 Project Location: OXY 32.132,-103.940297

Sampling Date: 01/15/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: LD - 02 5' (H250285-22)

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	01/18/2025	ND	2.05	102	2.00	6.40	
Toluene*	<0.050	0.050	01/18/2025	ND	2.21	110	2.00	4.21	
Ethylbenzene*	<0.050	0.050	01/18/2025	ND	2.28	114	2.00	2.33	
Total Xylenes*	<0.150	0.150	01/18/2025	ND	6.89	115	6.00	1.39	
Total BTX	<0.300	0.300	01/18/2025	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	32.0	16.0	01/20/2025	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	01/18/2025	ND	228	114	200	5.46	
DRO >C10-C28*	<10.0	10.0	01/18/2025	ND	205	103	200	5.37	
EXT DRO >C28-C36	<10.0	10.0	01/18/2025	ND					

Surrogate: 1-Chlorooctane 99.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 01/17/2025
 Reported: 01/21/2025
 Project Name: BRADLEY 13 FEDERAL #001
 Project Number: 03B1417195
 Project Location: OXY 32.132,-103.940297

Sampling Date: 01/15/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: LD - 02 10' (H250285-23)

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	01/18/2025	ND	2.05	102	2.00	6.40		
Toluene*	<0.050	0.050	01/18/2025	ND	2.21	110	2.00	4.21		
Ethylbenzene*	<0.050	0.050	01/18/2025	ND	2.28	114	2.00	2.33		
Total Xylenes*	<0.150	0.150	01/18/2025	ND	6.89	115	6.00	1.39		
Total BTX	<0.300	0.300	01/18/2025	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	16.0	16.0	01/20/2025	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	01/18/2025	ND	228	114	200	5.46	
DRO >C10-C28*	<10.0	10.0	01/18/2025	ND	205	103	200	5.37	
EXT DRO >C28-C36	<10.0	10.0	01/18/2025	ND					

Surrogate: 1-Chlorooctane 92.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 01/17/2025
 Reported: 01/21/2025
 Project Name: BRADLEY 13 FEDERAL #001
 Project Number: 03B1417195
 Project Location: OXY 32.132,-103.940297

Sampling Date: 01/15/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: LD - 02 15' (H250285-24)

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	01/18/2025	ND	2.05	102	2.00	6.40		
Toluene*	<0.050	0.050	01/18/2025	ND	2.21	110	2.00	4.21		
Ethylbenzene*	<0.050	0.050	01/18/2025	ND	2.28	114	2.00	2.33		
Total Xylenes*	<0.150	0.150	01/18/2025	ND	6.89	115	6.00	1.39		
Total BTEX	<0.300	0.300	01/18/2025	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	32.0	16.0	01/20/2025	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	01/18/2025	ND	228	114	200	5.46	
DRO >C10-C28*	<10.0	10.0	01/18/2025	ND	205	103	200	5.37	
EXT DRO >C28-C36	<10.0	10.0	01/18/2025	ND					

Surrogate: 1-Chlorooctane 97.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 01/17/2025
 Reported: 01/21/2025
 Project Name: BRADLEY 13 FEDERAL #001
 Project Number: 03B1417195
 Project Location: OXY 32.132,-103.940297

Sampling Date: 01/15/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: LD - 02 20' (H250285-25)

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	01/19/2025	ND	1.97	98.6	2.00	8.96		
Toluene*	<0.050	0.050	01/19/2025	ND	2.10	105	2.00	5.81		
Ethylbenzene*	<0.050	0.050	01/19/2025	ND	2.11	106	2.00	4.03		
Total Xylenes*	<0.150	0.150	01/19/2025	ND	6.29	105	6.00	4.50		
Total BTEx	<0.300	0.300	01/19/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	01/20/2025	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	01/18/2025	ND	228	114	200	5.46	
DRO >C10-C28*	<10.0	10.0	01/18/2025	ND	205	103	200	5.37	
EXT DRO >C28-C36	<10.0	10.0	01/18/2025	ND					

Surrogate: 1-Chlorooctane 85.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 01/17/2025
 Reported: 01/21/2025
 Project Name: BRADLEY 13 FEDERAL #001
 Project Number: 03B1417195
 Project Location: OXY 32.132,-103.940297

Sampling Date: 01/15/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: LD - 02 25' (H250285-26)

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	01/19/2025	ND	1.97	98.6	2.00	8.96	
Toluene*	<0.050	0.050	01/19/2025	ND	2.10	105	2.00	5.81	
Ethylbenzene*	<0.050	0.050	01/19/2025	ND	2.11	106	2.00	4.03	
Total Xylenes*	<0.150	0.150	01/19/2025	ND	6.29	105	6.00	4.50	
Total BTEx	<0.300	0.300	01/19/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	01/20/2025	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	01/18/2025	ND	228	114	200	5.46	
DRO >C10-C28*	<10.0	10.0	01/18/2025	ND	205	103	200	5.37	
EXT DRO >C28-C36	<10.0	10.0	01/18/2025	ND					

Surrogate: 1-Chlorooctane 90.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 01/17/2025
 Reported: 01/21/2025
 Project Name: BRADLEY 13 FEDERAL #001
 Project Number: 03B1417195
 Project Location: OXY 32.132,-103.940297

Sampling Date: 01/15/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: LD - 03 0-.25' (H250285-27)

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	01/19/2025	ND	1.97	98.6	2.00	8.96		
Toluene*	<0.050	0.050	01/19/2025	ND	2.10	105	2.00	5.81		
Ethylbenzene*	<0.050	0.050	01/19/2025	ND	2.11	106	2.00	4.03		
Total Xylenes*	<0.150	0.150	01/19/2025	ND	6.29	105	6.00	4.50		
Total BTEX	<0.300	0.300	01/19/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	01/20/2025	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	01/18/2025	ND	228	114	200	5.46	
DRO >C10-C28*	<10.0	10.0	01/18/2025	ND	205	103	200	5.37	
EXT DRO >C28-C36	<10.0	10.0	01/18/2025	ND					

Surrogate: 1-Chlorooctane 93.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 01/17/2025
 Reported: 01/21/2025
 Project Name: BRADLEY 13 FEDERAL #001
 Project Number: 03B1417195
 Project Location: OXY 32.132,-103.940297

Sampling Date: 01/15/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: LD - 03 1' (H250285-28)

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	01/19/2025	ND	1.97	98.6	2.00	8.96		
Toluene*	<0.050	0.050	01/19/2025	ND	2.10	105	2.00	5.81		
Ethylbenzene*	<0.050	0.050	01/19/2025	ND	2.11	106	2.00	4.03		
Total Xylenes*	<0.150	0.150	01/19/2025	ND	6.29	105	6.00	4.50		
Total BTEx	<0.300	0.300	01/19/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	01/20/2025	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	01/18/2025	ND	228	114	200	5.46	
DRO >C10-C28*	<10.0	10.0	01/18/2025	ND	205	103	200	5.37	
EXT DRO >C28-C36	<10.0	10.0	01/18/2025	ND					

Surrogate: 1-Chlorooctane 93.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 01/17/2025
 Reported: 01/21/2025
 Project Name: BRADLEY 13 FEDERAL #001
 Project Number: 03B1417195
 Project Location: OXY 32.132,-103.940297

Sampling Date: 01/15/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: LD - 03 5' (H250285-29)

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	01/19/2025	ND	1.97	98.6	2.00	8.96		
Toluene*	<0.050	0.050	01/19/2025	ND	2.10	105	2.00	5.81		
Ethylbenzene*	<0.050	0.050	01/19/2025	ND	2.11	106	2.00	4.03		
Total Xylenes*	<0.150	0.150	01/19/2025	ND	6.29	105	6.00	4.50		
Total BTEx	<0.300	0.300	01/19/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	96.0	16.0	01/20/2025	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	01/18/2025	ND	228	114	200	5.46	
DRO >C10-C28*	<10.0	10.0	01/18/2025	ND	205	103	200	5.37	
EXT DRO >C28-C36	<10.0	10.0	01/18/2025	ND					

Surrogate: 1-Chlorooctane 96.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 01/17/2025
 Reported: 01/21/2025
 Project Name: BRADLEY 13 FEDERAL #001
 Project Number: 03B1417195
 Project Location: OXY 32.132,-103.940297

Sampling Date: 01/15/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: LD - 03 10' (H250285-30)

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	01/19/2025	ND	1.97	98.6	2.00	8.96	
Toluene*	<0.050	0.050	01/19/2025	ND	2.10	105	2.00	5.81	
Ethylbenzene*	<0.050	0.050	01/19/2025	ND	2.11	106	2.00	4.03	
Total Xylenes*	<0.150	0.150	01/19/2025	ND	6.29	105	6.00	4.50	
Total BTX	<0.300	0.300	01/19/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	01/20/2025	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	01/18/2025	ND	228	114	200	5.46	
DRO >C10-C28*	<10.0	10.0	01/18/2025	ND	205	103	200	5.37	
EXT DRO >C28-C36	<10.0	10.0	01/18/2025	ND					

Surrogate: 1-Chlorooctane 86.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 01/17/2025
 Reported: 01/21/2025
 Project Name: BRADLEY 13 FEDERAL #001
 Project Number: 03B1417195
 Project Location: OXY 32.132,-103.940297

Sampling Date: 01/15/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: LD - 03 15' (H250285-31)

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	01/19/2025	ND	1.97	98.6	2.00	8.96	
Toluene*	<0.050	0.050	01/19/2025	ND	2.10	105	2.00	5.81	
Ethylbenzene*	<0.050	0.050	01/19/2025	ND	2.11	106	2.00	4.03	
Total Xylenes*	<0.150	0.150	01/19/2025	ND	6.29	105	6.00	4.50	
Total BTX	<0.300	0.300	01/19/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	224	16.0	01/20/2025	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	01/18/2025	ND	228	114	200	5.46	
DRO >C10-C28*	<10.0	10.0	01/18/2025	ND	205	103	200	5.37	
EXT DRO >C28-C36	<10.0	10.0	01/18/2025	ND					

Surrogate: 1-Chlorooctane 95.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 01/17/2025
 Reported: 01/21/2025
 Project Name: BRADLEY 13 FEDERAL #001
 Project Number: 03B1417195
 Project Location: OXY 32.132,-103.940297

Sampling Date: 01/15/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: LD - 03 20' (H250285-32)

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	01/19/2025	ND	1.97	98.6	2.00	8.96	
Toluene*	<0.050	0.050	01/19/2025	ND	2.10	105	2.00	5.81	
Ethylbenzene*	<0.050	0.050	01/19/2025	ND	2.11	106	2.00	4.03	
Total Xylenes*	<0.150	0.150	01/19/2025	ND	6.29	105	6.00	4.50	
Total BTEX	<0.300	0.300	01/19/2025	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	64.0	16.0	01/20/2025	ND	416	104	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	01/18/2025	ND	228	114	200	5.46	
DRO >C10-C28*	<10.0	10.0	01/18/2025	ND	205	103	200	5.37	
EXT DRO >C28-C36	<10.0	10.0	01/18/2025	ND					

Surrogate: 1-Chlorooctane 99.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 01/17/2025
 Reported: 01/21/2025
 Project Name: BRADLEY 13 FEDERAL #001
 Project Number: 03B1417195
 Project Location: OXY 32.132,-103.940297

Sampling Date: 01/15/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: LD - 03 25' (H250285-33)

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	01/19/2025	ND	1.97	98.6	2.00	8.96	
Toluene*	<0.050	0.050	01/19/2025	ND	2.10	105	2.00	5.81	
Ethylbenzene*	<0.050	0.050	01/19/2025	ND	2.11	106	2.00	4.03	
Total Xylenes*	<0.150	0.150	01/19/2025	ND	6.29	105	6.00	4.50	
Total BTX	<0.300	0.300	01/19/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	112	16.0	01/20/2025	ND	416	104	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	01/18/2025	ND	228	114	200	5.46	
DRO >C10-C28*	<10.0	10.0	01/18/2025	ND	205	103	200	5.37	
EXT DRO >C28-C36	<10.0	10.0	01/18/2025	ND					

Surrogate: 1-Chlorooctane 79.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.5 % 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, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 01/17/2025
 Reported: 01/21/2025
 Project Name: BRADLEY 13 FEDERAL #001
 Project Number: 03B1417195
 Project Location: OXY 32.132,-103.940297

Sampling Date: 01/15/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: LD - 04 0-.25' (H250285-34)

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	01/19/2025	ND	1.97	98.6	2.00	8.96		
Toluene*	<0.050	0.050	01/19/2025	ND	2.10	105	2.00	5.81		
Ethylbenzene*	<0.050	0.050	01/19/2025	ND	2.11	106	2.00	4.03		
Total Xylenes*	<0.150	0.150	01/19/2025	ND	6.29	105	6.00	4.50		
Total BTEX	<0.300	0.300	01/19/2025	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	48.0	16.0	01/20/2025	ND	416	104	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	01/18/2025	ND	228	114	200	5.46	
DRO >C10-C28*	<10.0	10.0	01/18/2025	ND	205	103	200	5.37	
EXT DRO >C28-C36	<10.0	10.0	01/18/2025	ND					

Surrogate: 1-Chlorooctane 83.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 01/17/2025
 Reported: 01/21/2025
 Project Name: BRADLEY 13 FEDERAL #001
 Project Number: 03B1417195
 Project Location: OXY 32.132,-103.940297

Sampling Date: 01/15/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: LD - 04 1' (H250285-35)

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	01/19/2025	ND	1.97	98.6	2.00	8.96		
Toluene*	<0.050	0.050	01/19/2025	ND	2.10	105	2.00	5.81		
Ethylbenzene*	<0.050	0.050	01/19/2025	ND	2.11	106	2.00	4.03		
Total Xylenes*	<0.150	0.150	01/19/2025	ND	6.29	105	6.00	4.50		
Total BTEX	<0.300	0.300	01/19/2025	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	336	16.0	01/20/2025	ND	416	104	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	01/18/2025	ND	228	114	200	5.46	
DRO >C10-C28*	<10.0	10.0	01/18/2025	ND	205	103	200	5.37	
EXT DRO >C28-C36	<10.0	10.0	01/18/2025	ND					

Surrogate: 1-Chlorooctane 80.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 01/17/2025
 Reported: 01/21/2025
 Project Name: BRADLEY 13 FEDERAL #001
 Project Number: 03B1417195
 Project Location: OXY 32.132,-103.940297

Sampling Date: 01/15/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: LD - 04 5' (H250285-36)

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	01/19/2025	ND	1.97	98.6	2.00	8.96	
Toluene*	<0.050	0.050	01/19/2025	ND	2.10	105	2.00	5.81	
Ethylbenzene*	<0.050	0.050	01/19/2025	ND	2.11	106	2.00	4.03	
Total Xylenes*	<0.150	0.150	01/19/2025	ND	6.29	105	6.00	4.50	
Total BTEX	<0.300	0.300	01/19/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	32.0	16.0	01/20/2025	ND	416	104	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	01/18/2025	ND	228	114	200	5.46	
DRO >C10-C28*	<10.0	10.0	01/18/2025	ND	205	103	200	5.37	
EXT DRO >C28-C36	<10.0	10.0	01/18/2025	ND					

Surrogate: 1-Chlorooctane 84.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.4 % 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, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 01/17/2025
 Reported: 01/21/2025
 Project Name: BRADLEY 13 FEDERAL #001
 Project Number: 03B1417195
 Project Location: OXY 32.132,-103.940297

Sampling Date: 01/15/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: LD - 04 10' (H250285-37)

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	01/19/2025	ND	1.97	98.6	2.00	8.96	
Toluene*	<0.050	0.050	01/19/2025	ND	2.10	105	2.00	5.81	
Ethylbenzene*	<0.050	0.050	01/19/2025	ND	2.11	106	2.00	4.03	
Total Xylenes*	<0.150	0.150	01/19/2025	ND	6.29	105	6.00	4.50	
Total BTEX	<0.300	0.300	01/19/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 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	01/20/2025	ND	416	104	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	01/18/2025	ND	228	114	200	5.46	
DRO >C10-C28*	<10.0	10.0	01/18/2025	ND	205	103	200	5.37	
EXT DRO >C28-C36	<10.0	10.0	01/18/2025	ND					

Surrogate: 1-Chlorooctane 82.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 01/17/2025
 Reported: 01/21/2025
 Project Name: BRADLEY 13 FEDERAL #001
 Project Number: 03B1417195
 Project Location: OXY 32.132,-103.940297

Sampling Date: 01/15/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: LD - 04 15' (H250285-38)

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	01/19/2025	ND	1.97	98.6	2.00	8.96	
Toluene*	<0.050	0.050	01/19/2025	ND	2.10	105	2.00	5.81	
Ethylbenzene*	<0.050	0.050	01/19/2025	ND	2.11	106	2.00	4.03	
Total Xylenes*	<0.150	0.150	01/19/2025	ND	6.29	105	6.00	4.50	
Total BTEx	<0.300	0.300	01/19/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	01/20/2025	ND	416	104	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	01/18/2025	ND	228	114	200	5.46	
DRO >C10-C28*	<10.0	10.0	01/18/2025	ND	205	103	200	5.37	
EXT DRO >C28-C36	<10.0	10.0	01/18/2025	ND					

Surrogate: 1-Chlorooctane 82.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 01/17/2025
 Reported: 01/21/2025
 Project Name: BRADLEY 13 FEDERAL #001
 Project Number: 03B1417195
 Project Location: OXY 32.132,-103.940297

Sampling Date: 01/15/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: LD - 04 20' (H250285-39)

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	01/19/2025	ND	1.97	98.6	2.00	8.96		
Toluene*	<0.050	0.050	01/19/2025	ND	2.10	105	2.00	5.81		
Ethylbenzene*	<0.050	0.050	01/19/2025	ND	2.11	106	2.00	4.03		
Total Xylenes*	<0.150	0.150	01/19/2025	ND	6.29	105	6.00	4.50		
Total BTEx	<0.300	0.300	01/19/2025	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	112	16.0	01/20/2025	ND	416	104	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	01/18/2025	ND	228	114	200	5.46	
DRO >C10-C28*	<10.0	10.0	01/18/2025	ND	205	103	200	5.37	
EXT DRO >C28-C36	<10.0	10.0	01/18/2025	ND					

Surrogate: 1-Chlorooctane 82.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 01/17/2025
 Reported: 01/21/2025
 Project Name: BRADLEY 13 FEDERAL #001
 Project Number: 03B1417195
 Project Location: OXY 32.132,-103.940297

Sampling Date: 01/15/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: LD - 04 25' (H250285-40)

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	01/19/2025	ND	1.97	98.6	2.00	8.96	
Toluene*	<0.050	0.050	01/19/2025	ND	2.10	105	2.00	5.81	
Ethylbenzene*	<0.050	0.050	01/19/2025	ND	2.11	106	2.00	4.03	
Total Xylenes*	<0.150	0.150	01/19/2025	ND	6.29	105	6.00	4.50	
Total BTEx	<0.300	0.300	01/19/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	32.0	16.0	01/20/2025	ND	416	104	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	01/18/2025	ND	228	114	200	5.46	
DRO >C10-C28*	<10.0	10.0	01/18/2025	ND	205	103	200	5.37	
EXT DRO >C28-C36	<10.0	10.0	01/18/2025	ND					

Surrogate: 1-Chlorooctane 82.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.3 % 49.1-148

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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.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

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

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

3 of 4

Company Name: Ensolum, LLC
 101 East Marland, Hobbs, NM 88240
 (575) 393-2326 FAX (575) 393-2476

Project Manager: Hadlie Green

Address: 601 N. Marland St. STE 400
 City: Midland State: TX Zip: 79701

Phone #: 432-557-8895

Email: hgreen@ensolum.com

Project #: 0381417195

Project Owner: Oxy

Project Location: Bradley's Fed 001

Sample Name: Eddy Co NM

Sampler Name: Shane Diller

FOR LAB USE ONLY

BILL TO

ANALYSIS REQUEST

TPH 8015
 BTEX8021b
 Chlorides 4500

Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING	DATE	TIME	TPH 8015	BTEX8021b	Chlorides 4500
81	LD-02	1	C	1	GROUNDWATER			1/15/2025	1202	X	X	X
82	LD-02	5	C	1	WASTEWATER			1/15/2025	1205	X	X	X
83	LD-02	10	C	1	SOIL			1/15/2025	1220	X	X	X
84	LD-02	15	C	1	SLUDGE			1/15/2025	1225	X	X	X
85	LD-02	20	C	1	OTHER :			1/15/2025	1235	X	X	X
86	LD-02	25	C	1	ACID/BASE:			1/15/2025	1245	X	X	X
87	LD-03	0-25	G	1	ICE / COOL			1/15/2025	1100	X	X	X
88	LD-03	1	C	1	OTHER :			1/15/2025	1105	X	X	X
89	LD-03	5	C	1				1/15/2025	1110	X	X	X
90	LD-03	10	C	1				1/15/2025	1120	X	X	X

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Relinquished By: *[Signature]* Date: 1-17-25

Received By: *[Signature]* Date: 1-14-25

Received By: *[Signature]*

Verbal Result: ☐ Yes ☐ No Add'l Phone #:
 All Results are emailed. Please provide Email address:
 klowery@ensolum.com / blennings@ensolum.com

REMARKS: Paykey/AFENonAFE:

Delivered By: (Circle One)
 Sampler - UPS - Bus - Other:

Observed Temp. °C
 Corrected Temp. °C

Sample Condition
☐ Cool ☐ Intact
☐ Yes ☐ No

CHECKED BY:
 (Initials)

Turnaround Time: ☐ Standard ☐ Batch (only) Sample Condition
 Results: ☐ Cool ☐ Intact
 Thermometer: *8226* *444* *4140*
 Correction Factor: *-0.00*

☐ Yes ☐ No

Corrected Temp. °C

FORM-006 R 3.2 10/07/21

† Cardinal cannot accept verbal changes. Please email changes to cclay.keene@cardinalabnm.com



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

4664

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

Company Name: Ensolum, LLC

Project Manager: Hadlie Green

Address: 601 N. Marland St. STE 400

City: Midland State: TX Zip: 79701

Phone #: 432-557-8895

Project #: 03B1417195

Project Name: Bradley13 Fed 001

Project Location: Eddy Co NM

Sampler Name: Shane Diller

BILL TO

ANALYSIS REQUEST

P.O. #: _____ Company: _____
Attn: _____ Address: _____
City: _____ State: _____ Zip: _____
Phone #: _____ Email: _____

Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.	SAMPLING	DATE	TIME										
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :													
1A-5055	LD-03	15	C 1	X								1/15/2025	1130	X	X	X	X	X	X	X	X	X	X
31	LD-03	20	C 1	X								1/15/2025	1140	X	X	X	X	X	X	X	X	X	X
32	LD-03	25	C 1	X								1/15/2025	1150	X	X	X	X	X	X	X	X	X	X
33	LD-04	0-25	G 1	X								1/15/2025	950	X	X	X	X	X	X	X	X	X	X
34	LD-04	1	C 1	X								1/15/2025	955	X	X	X	X	X	X	X	X	X	X
35	LD-04	5	C 1	X								1/15/2025	945	X	X	X	X	X	X	X	X	X	X
36	LD-04	10	C 1	X								1/15/2025	950	X	X	X	X	X	X	X	X	X	X
37	LD-04	15	C 1	X								1/15/2025	1000	X	X	X	X	X	X	X	X	X	X
38	LD-04	20	C 1	X								1/15/2025	1010	X	X	X	X	X	X	X	X	X	X
39	LD-04	25	C 1	X								1/15/2025	1025	X	X	X	X	X	X	X	X	X	X
40	LD-04																						

PLEASE NOTE: Laboratory Charges: Containers, bottles and labels included in amount for any other testing unless noted in contract or bill. All bills are payable to the amount paid to the client for the analysis. All claims including those for lost or damaged samples must be submitted to the client 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 interruption, loss of data, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services provided by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: _____ Date: 1-17-25
Time: 1149
Received By: _____
Time: _____
Delivered By: (Circle One) _____
Sampler - UPS - Bus - Other: _____
Observed Temp. °C: 39.5
Corrected Temp. °C: 38.2
Sample Condition: ☐ Intact ☐ No
Checked By: (Initials) _____
Turnaround Time: ☒ Standard ☐ Expedited ☐ Batched (only if Sample Condition is Standard)
Thermometer ID: 41341403
Correction Factor: -0.2°C
AP-1-17-25
Remarks: Paykey/AFF/Non-AFE
Verbal Result: ☐ Yes ☐ No
Add'l Phone #: _____
All Results are emailed. Please provide Email address: kowery@ensolum.com / Bjennings@ensolum.com

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



APPENDIX B

Photographic Log



Photographic Log

Oxy USA Inc.

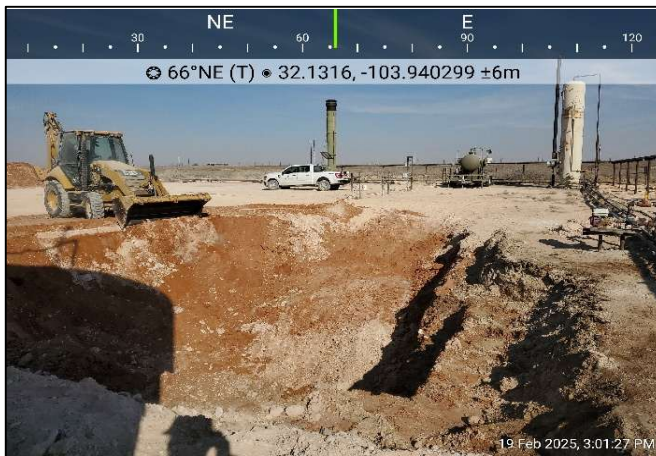
Bradley 13 Federal #001

Incident Number nAPP2218939473



Photograph: 1
Description: Excavation activities
View: Northeast

Date: 2/4/2025



Photograph: 2
Description: Excavation activities
View: Northeast

Date: 2/19/2025



Photograph: 3
Description: Excavation activities
View: Southwest

Date: 2/19/2025



Photograph: 4
Description: Deferral Area (SS02)
View: West

Date: 1/15/2025

**Photographic Log**

Oxy USA Inc.

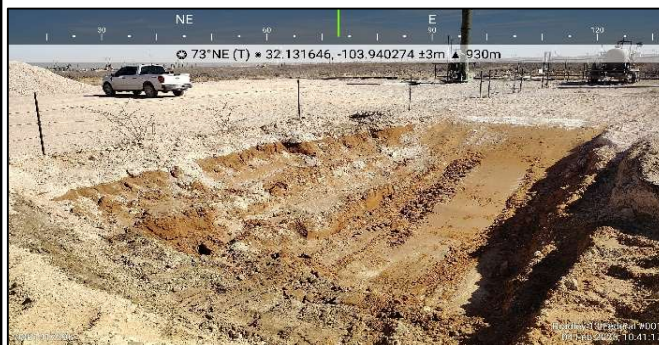
Bradley 13 Federal #001

Incident Number nAPP2218939473



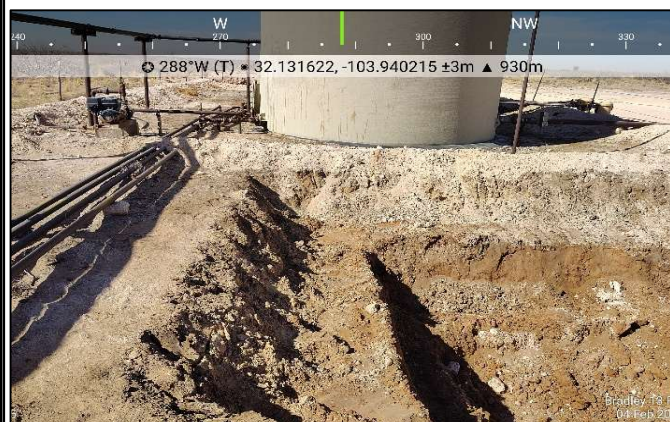
Photograph: 5
Description: Deferral Area
View: Southwest

Date: 2/4/2025



Photograph: 6
Description: Excavation activities
View: Northeast

Date: 2/4/2025



Photograph: 7
Description: Deferral Area (SW07)
View: West

Date: 2/4/2025



Photograph: 8
Description: Deferral Area
View: Northeast

Date: 2/4/2025



APPENDIX C

Laboratory Analytical Reports & Chain of Custody Documentation



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

February 03, 2025

HADLIE GREEN

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: BRADLEY 13 FEDERAL #001

Enclosed are the results of analyses for samples received by the laboratory on 01/28/25 13:25.

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

Received: 01/28/2025
 Reported: 02/03/2025
 Project Name: BRADLEY 13 FEDERAL #001
 Project Number: 03B1417195
 Project Location: OXY 32.132,-103.940297

Sampling Date: 01/27/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS 01 1' (H250494-01)

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	01/30/2025	ND	2.05	103	2.00	3.56	
Toluene*	<0.050	0.050	01/30/2025	ND	2.15	107	2.00	2.75	
Ethylbenzene*	<0.050	0.050	01/30/2025	ND	2.12	106	2.00	3.51	
Total Xylenes*	<0.150	0.150	01/30/2025	ND	6.37	106	6.00	3.33	
Total BTX	<0.300	0.300	01/30/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	304	16.0	01/29/2025	ND	400	100	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	01/29/2025	ND	194	96.9	200	0.384	
DRO >C10-C28*	43.7	10.0	01/29/2025	ND	209	105	200	0.550	
EXT DRO >C28-C36	32.4	10.0	01/29/2025	ND					

Surrogate: 1-Chlorooctane 88.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 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, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 01/28/2025
 Reported: 02/03/2025
 Project Name: BRADLEY 13 FEDERAL #001
 Project Number: 03B1417195
 Project Location: OXY 32.132,-103.940297

Sampling Date: 01/27/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS 02 1' (H250494-02)

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	01/30/2025	ND	2.05	103	2.00	3.56		
Toluene*	<0.050	0.050	01/30/2025	ND	2.15	107	2.00	2.75		
Ethylbenzene*	<0.050	0.050	01/30/2025	ND	2.12	106	2.00	3.51		
Total Xylenes*	<0.150	0.150	01/30/2025	ND	6.37	106	6.00	3.33		
Total BTEX	<0.300	0.300	01/30/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	688	16.0	01/29/2025	ND	400	100	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	01/29/2025	ND	194	96.9	200	0.384	
DRO >C10-C28*	<10.0	10.0	01/29/2025	ND	209	105	200	0.550	
EXT DRO >C28-C36	<10.0	10.0	01/29/2025	ND					

Surrogate: 1-Chlorooctane 85.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.4 % 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, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 01/28/2025
 Reported: 02/03/2025
 Project Name: BRADLEY 13 FEDERAL #001
 Project Number: 03B1417195
 Project Location: OXY 32.132,-103.940297

Sampling Date: 01/27/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS 03 1' (H250494-03)

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	01/30/2025	ND	2.05	103	2.00	3.56		
Toluene*	<0.050	0.050	01/30/2025	ND	2.15	107	2.00	2.75		
Ethylbenzene*	<0.050	0.050	01/30/2025	ND	2.12	106	2.00	3.51		
Total Xylenes*	<0.150	0.150	01/30/2025	ND	6.37	106	6.00	3.33		
Total BTEX	<0.300	0.300	01/30/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	160	16.0	01/29/2025	ND	400	100	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	01/29/2025	ND	194	96.9	200	0.384	
DRO >C10-C28*	<10.0	10.0	01/29/2025	ND	209	105	200	0.550	
EXT DRO >C28-C36	<10.0	10.0	01/29/2025	ND					

Surrogate: 1-Chlorooctane 89.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 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, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 01/28/2025
 Reported: 02/03/2025
 Project Name: BRADLEY 13 FEDERAL #001
 Project Number: 03B1417195
 Project Location: OXY 32.132,-103.940297

Sampling Date: 01/27/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS 04 5' (H250494-04)

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	01/30/2025	ND	2.25	113	2.00	1.43		
Toluene*	<0.050	0.050	01/30/2025	ND	2.39	119	2.00	1.56		
Ethylbenzene*	<0.050	0.050	01/30/2025	ND	2.44	122	2.00	1.13	QR-03	
Total Xylenes*	<0.150	0.150	01/30/2025	ND	7.16	119	6.00	0.381	QR-03	
Total BTEx	<0.300	0.300	01/30/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/29/2025	ND	400	100	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	01/29/2025	ND	194	96.9	200	0.384	
DRO >C10-C28*	<10.0	10.0	01/29/2025	ND	209	105	200	0.550	
EXT DRO >C28-C36	<10.0	10.0	01/29/2025	ND					

Surrogate: 1-Chlorooctane 81.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.2 % 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, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 01/28/2025
 Reported: 02/03/2025
 Project Name: BRADLEY 13 FEDERAL #001
 Project Number: 03B1417195
 Project Location: OXY 32.132,-103.940297

Sampling Date: 01/27/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS 05 5' (H250494-05)

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	01/30/2025	ND	2.25	113	2.00	1.43		
Toluene*	<0.050	0.050	01/30/2025	ND	2.39	119	2.00	1.56		
Ethylbenzene*	<0.050	0.050	01/30/2025	ND	2.44	122	2.00	1.13		
Total Xylenes*	<0.150	0.150	01/30/2025	ND	7.16	119	6.00	0.381		
Total BTEx	<0.300	0.300	01/30/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 124 % 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	160	16.0	01/29/2025	ND	400	100	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	01/29/2025	ND	194	96.9	200	0.384	
DRO >C10-C28*	<10.0	10.0	01/29/2025	ND	209	105	200	0.550	
EXT DRO >C28-C36	<10.0	10.0	01/29/2025	ND					

Surrogate: 1-Chlorooctane 85.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.5 % 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, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 01/28/2025
 Reported: 02/03/2025
 Project Name: BRADLEY 13 FEDERAL #001
 Project Number: 03B1417195
 Project Location: OXY 32.132,-103.940297

Sampling Date: 01/27/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS 06 5' (H250494-06)

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	01/30/2025	ND	2.25	113	2.00	1.43	
Toluene*	<0.050	0.050	01/30/2025	ND	2.39	119	2.00	1.56	
Ethylbenzene*	<0.050	0.050	01/30/2025	ND	2.44	122	2.00	1.13	
Total Xylenes*	<0.150	0.150	01/30/2025	ND	7.16	119	6.00	0.381	
Total BTX	<0.300	0.300	01/30/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	01/29/2025	ND	400	100	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	01/29/2025	ND	194	96.9	200	0.384	
DRO >C10-C28*	<10.0	10.0	01/29/2025	ND	209	105	200	0.550	
EXT DRO >C28-C36	<10.0	10.0	01/29/2025	ND					

Surrogate: 1-Chlorooctane 83.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.8 % 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, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 01/28/2025
 Reported: 02/03/2025
 Project Name: BRADLEY 13 FEDERAL #001
 Project Number: 03B1417195
 Project Location: OXY 32.132,-103.940297

Sampling Date: 01/27/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SW 01 0-1' (H250494-07)

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	01/30/2025	ND	2.25	113	2.00	1.43		
Toluene*	<0.050	0.050	01/30/2025	ND	2.39	119	2.00	1.56		
Ethylbenzene*	<0.050	0.050	01/30/2025	ND	2.44	122	2.00	1.13		
Total Xylenes*	<0.150	0.150	01/30/2025	ND	7.16	119	6.00	0.381		
Total BTEx	<0.300	0.300	01/30/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/29/2025	ND	400	100	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	01/29/2025	ND	194	96.9	200	0.384	
DRO >C10-C28*	<10.0	10.0	01/29/2025	ND	209	105	200	0.550	
EXT DRO >C28-C36	<10.0	10.0	01/29/2025	ND					

Surrogate: 1-Chlorooctane 89.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 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, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 01/28/2025
 Reported: 02/03/2025
 Project Name: BRADLEY 13 FEDERAL #001
 Project Number: 03B1417195
 Project Location: OXY 32.132,-103.940297

Sampling Date: 01/27/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SW 02 0-5' (H250494-08)

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	01/30/2025	ND	2.25	113	2.00	1.43		
Toluene*	<0.050	0.050	01/30/2025	ND	2.39	119	2.00	1.56		
Ethylbenzene*	<0.050	0.050	01/30/2025	ND	2.44	122	2.00	1.13		
Total Xylenes*	<0.150	0.150	01/30/2025	ND	7.16	119	6.00	0.381		
Total BTX	<0.300	0.300	01/30/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	01/29/2025	ND	400	100	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	01/29/2025	ND	194	96.9	200	0.384	
DRO >C10-C28*	<10.0	10.0	01/29/2025	ND	209	105	200	0.550	
EXT DRO >C28-C36	<10.0	10.0	01/29/2025	ND					

Surrogate: 1-Chlorooctane 86.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.5 % 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, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 01/28/2025
 Reported: 02/03/2025
 Project Name: BRADLEY 13 FEDERAL #001
 Project Number: 03B1417195
 Project Location: OXY 32.132,-103.940297

Sampling Date: 01/27/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SW 03 0-5' (H250494-09)

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	01/30/2025	ND	2.25	113	2.00	1.43		
Toluene*	<0.050	0.050	01/30/2025	ND	2.39	119	2.00	1.56		
Ethylbenzene*	<0.050	0.050	01/30/2025	ND	2.44	122	2.00	1.13		
Total Xylenes*	<0.150	0.150	01/30/2025	ND	7.16	119	6.00	0.381		
Total BTEx	<0.300	0.300	01/30/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	01/29/2025	ND	400	100	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	01/29/2025	ND	194	96.9	200	0.384	
DRO >C10-C28*	<10.0	10.0	01/29/2025	ND	209	105	200	0.550	
EXT DRO >C28-C36	<10.0	10.0	01/29/2025	ND					

Surrogate: 1-Chlorooctane 89.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 01/28/2025
 Reported: 02/03/2025
 Project Name: BRADLEY 13 FEDERAL #001
 Project Number: 03B1417195
 Project Location: OXY 32.132,-103.940297

Sampling Date: 01/27/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SW 04 0-5' (H250494-10)

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	01/30/2025	ND	2.25	113	2.00	1.43		
Toluene*	<0.050	0.050	01/30/2025	ND	2.39	119	2.00	1.56		
Ethylbenzene*	<0.050	0.050	01/30/2025	ND	2.44	122	2.00	1.13		
Total Xylenes*	<0.150	0.150	01/30/2025	ND	7.16	119	6.00	0.381		
Total BTEx	<0.300	0.300	01/30/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	01/29/2025	ND	400	100	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	01/29/2025	ND	194	96.9	200	0.384	
DRO >C10-C28*	<10.0	10.0	01/29/2025	ND	209	105	200	0.550	
EXT DRO >C28-C36	<10.0	10.0	01/29/2025	ND					

Surrogate: 1-Chlorooctane 89.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Ensolum, LLC

BILL TO

ANALYSIS REQUEST

Project Manager: Kenny Lowery Hobbs Creek

P.O. #:

Address: 601 N. Marland St. STE 400

Company: DOV USA

City: Midland

State: TX Zip: 79701

Attn: Wade Dittich

Phone #: 214-733-3165

Email: Klowery@ensolum.com

Project #:

Project Owner:

City:

Project Name:

State: Zip:

Address:

Project Location: East Marland

Phone #: 575-390-2828

Sampler Name:

Email:

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

Sample Depth (feet)

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER:

ACID/BASE:

ICE / COOL

OTHER:

DATE

TIME

DATE

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Reinquinished By:

Date: 1/27/25

Received By:

Date: 1/27/25

Received By:

Verbal Result: ☐ Yes ☒ No

Addt Phone #:

Remarks: Paykey/FEINOMAFEE

Remarks: Paykey/FEINOMAFEE

Remarks: Paykey/FEINOMAFEE

Remarks: Paykey/FEINOMAFEE

Remarks: Paykey/FEINOMAFEE

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Reinquinished By:

Date: 1/27/25

Received By:

Date: 1/27/25

Received By:

Verbal Result: ☐ Yes ☒ No

Addt Phone #:

Remarks: Paykey/FEINOMAFEE

Remarks: Paykey/FEINOMAFEE

Remarks: Paykey/FEINOMAFEE

Remarks: Paykey/FEINOMAFEE

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Remarks: Paykey/FEINOMAFEE

Delivered By: (Circle One)

Observed Temp. °C

Corrected Temp. °C

Sample Condition

Checked By: (Initials)

Turnaround Time: ☐ Rush ☐ Standard

Thermometer ID: 4110

Correction Factor: 0.00

Remarks: Paykey/FEINOMAFEE

Remarks: Paykey/FEINOMAFEE

Remarks: Paykey/FEINOMAFEE

Remarks: Paykey/FEINOMAFEE

Remarks: Paykey/FEINOMAFEE

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Remarks: Paykey/FEINOMAFEE

FORM-006 R 3.2 10/07/21

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



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

February 11, 2025

HADLIE GREEN

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: BRADLEY 13 FEDERAL #001

Enclosed are the results of analyses for samples received by the laboratory on 02/05/25 12:20.

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 style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 02/05/2025
 Reported: 02/11/2025
 Project Name: BRADLEY 13 FEDERAL #001
 Project Number: 03B1417195
 Project Location: OXY 32.132,-103.940297

Sampling Date: 02/04/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 07 5' (H250692-01)

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	02/06/2025	ND	2.27	113	2.00	1.70	
Toluene*	<0.050	0.050	02/06/2025	ND	2.26	113	2.00	5.77	
Ethylbenzene*	<0.050	0.050	02/06/2025	ND	2.38	119	2.00	7.40	
Total Xylenes*	<0.150	0.150	02/06/2025	ND	7.25	121	6.00	6.00	
Total BTEx	<0.300	0.300	02/06/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	2000	16.0	02/06/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/06/2025	ND	213	106	200	0.0188	
DRO >C10-C28*	163	10.0	02/06/2025	ND	208	104	200	0.325	
EXT DRO >C28-C36	28.2	10.0	02/06/2025	ND					

Surrogate: 1-Chlorooctane 87.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 02/05/2025
 Reported: 02/11/2025
 Project Name: BRADLEY 13 FEDERAL #001
 Project Number: 03B1417195
 Project Location: OXY 32.132,-103.940297

Sampling Date: 02/04/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 08 5' (H250692-02)

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	02/06/2025	ND	2.27	113	2.00	1.70		
Toluene*	<0.050	0.050	02/06/2025	ND	2.26	113	2.00	5.77		
Ethylbenzene*	<0.050	0.050	02/06/2025	ND	2.38	119	2.00	7.40		
Total Xylenes*	<0.150	0.150	02/06/2025	ND	7.25	121	6.00	6.00		
Total BTEx	<0.300	0.300	02/06/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	448	16.0	02/06/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/06/2025	ND	213	106	200	0.0188	
DRO >C10-C28*	231	10.0	02/06/2025	ND	208	104	200	0.325	
EXT DRO >C28-C36	97.7	10.0	02/06/2025	ND					

Surrogate: 1-Chlorooctane 82.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 02/05/2025
 Reported: 02/11/2025
 Project Name: BRADLEY 13 FEDERAL #001
 Project Number: 03B1417195
 Project Location: OXY 32.132,-103.940297

Sampling Date: 02/04/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 09 5' (H250692-03)

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	02/06/2025	ND	2.27	113	2.00	1.70	
Toluene*	<0.050	0.050	02/06/2025	ND	2.26	113	2.00	5.77	
Ethylbenzene*	0.152	0.050	02/06/2025	ND	2.38	119	2.00	7.40	GC-NC1
Total Xylenes*	0.622	0.150	02/06/2025	ND	7.25	121	6.00	6.00	GC-NC1
Total BTEX	0.774	0.300	02/06/2025	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 128 % 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	608	16.0	02/06/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	53.4	10.0	02/06/2025	ND	207	103	200	1.37	
DRO >C10-C28*	1800	10.0	02/06/2025	ND	196	97.8	200	1.32	QM-07
EXT DRO >C28-C36	416	10.0	02/06/2025	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 02/05/2025
 Reported: 02/11/2025
 Project Name: BRADLEY 13 FEDERAL #001
 Project Number: 03B1417195
 Project Location: OXY 32.132,-103.940297

Sampling Date: 02/04/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW 05 0-5' (H250692-04)

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	02/06/2025	ND	2.27	113	2.00	1.70	
Toluene*	<0.050	0.050	02/06/2025	ND	2.26	113	2.00	5.77	
Ethylbenzene*	<0.050	0.050	02/06/2025	ND	2.38	119	2.00	7.40	
Total Xylenes*	<0.150	0.150	02/06/2025	ND	7.25	121	6.00	6.00	
Total BTEX	<0.300	0.300	02/06/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 121 % 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	304	16.0	02/06/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/06/2025	ND	207	103	200	1.37	
DRO >C10-C28*	629	10.0	02/06/2025	ND	196	97.8	200	1.32	
EXT DRO >C28-C36	177	10.0	02/06/2025	ND					

Surrogate: 1-Chlorooctane 90.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.3 % 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, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 02/05/2025
 Reported: 02/11/2025
 Project Name: BRADLEY 13 FEDERAL #001
 Project Number: 03B1417195
 Project Location: OXY 32.132,-103.940297

Sampling Date: 02/04/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW 06 0-5' (H250692-05)

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	02/06/2025	ND	2.27	113	2.00	1.70	
Toluene*	<0.050	0.050	02/06/2025	ND	2.26	113	2.00	5.77	GC-NC
Ethylbenzene*	0.260	0.050	02/06/2025	ND	2.38	119	2.00	7.40	GC-NC1
Total Xylenes*	0.857	0.150	02/06/2025	ND	7.25	121	6.00	6.00	GC-NC1
Total BTEX	1.12	0.300	02/06/2025	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 131 % 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	02/06/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	72.4	10.0	02/06/2025	ND	207	103	200	1.37	
DRO >C10-C28*	2410	10.0	02/06/2025	ND	196	97.8	200	1.32	
EXT DRO >C28-C36	589	10.0	02/06/2025	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 02/05/2025
 Reported: 02/11/2025
 Project Name: BRADLEY 13 FEDERAL #001
 Project Number: 03B1417195
 Project Location: OXY 32.132,-103.940297

Sampling Date: 02/04/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW 07 0-5' (H250692-06)

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	02/06/2025	ND	2.27	113	2.00	1.70	
Toluene*	<0.050	0.050	02/06/2025	ND	2.26	113	2.00	5.77	GC-NC
Ethylbenzene*	0.229	0.050	02/06/2025	ND	2.38	119	2.00	7.40	GC-NC1
Total Xylenes*	0.858	0.150	02/06/2025	ND	7.25	121	6.00	6.00	GC-NC1
Total BTEX	1.09	0.300	02/06/2025	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 144 % 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	592	16.0	02/06/2025	ND	416	104	400	0.00	

TPH 8015M			mg/kg					Analyzed By: MS	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	68.8	10.0	02/06/2025	ND	207	103	200	1.37	
DRO >C10-C28*	2620	10.0	02/06/2025	ND	196	97.8	200	1.32	
EXT DRO >C28-C36	639	10.0	02/06/2025	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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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.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
GC-NC	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.
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", 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

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

BILL TO

ANALYSIS REQUEST

Company Name: Ensolum, LLC

Project Manager: Hadlie Green

Address: 601 N Marlenfeld Street, Suite 400

City: Midland State: TX Zip: 79701

Phone #: 432-557-8895 Fax #:

Project #: 03B1417195 Project Owner:

Project Name: Bradley 13 Federal #D01

Project Location: LeCompte NM Edley Quarry / LM

Sampler Name: Noah Duker

P.O.#:

Oxy, USA, Inc.

Attn: Wade Dittich

Address:

City:

State: Zip:

Phone #

Fax #:

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 :

MATRIX

PRESERV.

SAMPLING

DATE TIME

BTEX 8021

TPH 8015

Chlorides 4500

HS0A06A	E01	3'	C	/	X	2/4/25	1100	X											
	E08	3'	C	/	X	2/4/25	1105	X											
	E09	3'	C	/	X	2/4/25	1110	X											
	E05	0-3'	C	/	X	2/4/25	1115	X											
	E08b	0-3'	C	/	X	2/4/25	1120	X											
	E07	0-3'	C	/	X	2/4/25	1125	X											
LIFE MTD		2/4/25																	

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Relinquished By:

Date:
Time:

Received By:

Verbal Result: Yes No Add'l Phone #:

All Results are emailed. Please provide Email address:

Relinquished By:

Date:
Time:

Received By:

REMARKS:

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

Delivered By: (Circle One)

Observed Temp.: °C Corrected Temp.: °C

Sample Condition Cool Intact Yes No

CHECKED BY: (Initials)

Thermometer ID #140 Correction Factor +0.3°C

Sampler - UPS - Bus - Other:

Please email changes to celestine.keene@cardinallabsnm.com



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

February 21, 2025

HADLIE GREEN

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: BRADLEY 13 FEDERAL #001

Enclosed are the results of analyses for samples received by the laboratory on 02/20/25 10:02.

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

Received: 02/20/2025
 Reported: 02/21/2025
 Project Name: BRADLEY 13 FEDERAL #001
 Project Number: 03B1417195
 Project Location: OXY 32.132,-103.940297

Sampling Date: 02/19/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW 05 0-6 (H251006-01)

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	2.13	107	2.00	4.81	
Toluene*	<0.050	0.050	02/20/2025	ND	2.16	108	2.00	2.09	
Ethylbenzene*	<0.050	0.050	02/20/2025	ND	2.22	111	2.00	0.985	
Total Xylenes*	<0.150	0.150	02/20/2025	ND	6.85	114	6.00	1.65	
Total BTX	<0.300	0.300	02/20/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	464	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	227	113	200	1.98	
DRO >C10-C28*	<10.0	10.0	02/20/2025	ND	233	116	200	4.44	
EXT DRO >C28-C36	<10.0	10.0	02/20/2025	ND					

Surrogate: 1-Chlorooctane 90.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 02/20/2025
 Reported: 02/21/2025
 Project Name: BRADLEY 13 FEDERAL #001
 Project Number: 03B1417195
 Project Location: OXY 32.132,-103.940297

Sampling Date: 02/19/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW 06 0-6 (H251006-02)

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	02/20/2025	ND	2.13	107	2.00	4.81		
Toluene*	<0.050	0.050	02/20/2025	ND	2.16	108	2.00	2.09		
Ethylbenzene*	<0.050	0.050	02/20/2025	ND	2.22	111	2.00	0.985		
Total Xylenes*	<0.150	0.150	02/20/2025	ND	6.85	114	6.00	1.65		
Total BTEX	<0.300	0.300	02/20/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	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	227	113	200	1.98	
DRO >C10-C28*	<10.0	10.0	02/20/2025	ND	233	116	200	4.44	
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, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 02/20/2025
 Reported: 02/21/2025
 Project Name: BRADLEY 13 FEDERAL #001
 Project Number: 03B1417195
 Project Location: OXY 32.132,-103.940297

Sampling Date: 02/19/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 09 8.5 (H251006-03)

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	2.13	107	2.00	4.81		
Toluene*	<0.050	0.050	02/20/2025	ND	2.16	108	2.00	2.09		
Ethylbenzene*	<0.050	0.050	02/20/2025	ND	2.22	111	2.00	0.985		
Total Xylenes*	<0.150	0.150	02/20/2025	ND	6.85	114	6.00	1.65		
Total BTEX	<0.300	0.300	02/20/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	528	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	227	113	200	1.98	
DRO >C10-C28*	<10.0	10.0	02/20/2025	ND	233	116	200	4.44	
EXT DRO >C28-C36	<10.0	10.0	02/20/2025	ND					

Surrogate: 1-Chlorooctane 89.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 02/20/2025
 Reported: 02/21/2025
 Project Name: BRADLEY 13 FEDERAL #001
 Project Number: 03B1417195
 Project Location: OXY 32.132,-103.940297

Sampling Date: 02/19/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: LD-05 0.5 (H251006-04)

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	2.13	107	2.00	4.81		
Toluene*	<0.050	0.050	02/20/2025	ND	2.16	108	2.00	2.09		
Ethylbenzene*	<0.050	0.050	02/20/2025	ND	2.22	111	2.00	0.985		
Total Xylenes*	<0.150	0.150	02/20/2025	ND	6.85	114	6.00	1.65		
Total BTEX	<0.300	0.300	02/20/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	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	227	113	200	1.98	
DRO >C10-C28*	<10.0	10.0	02/20/2025	ND	233	116	200	4.44	
EXT DRO >C28-C36	<10.0	10.0	02/20/2025	ND					

Surrogate: 1-Chlorooctane 92.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 02/20/2025
 Reported: 02/21/2025
 Project Name: BRADLEY 13 FEDERAL #001
 Project Number: 03B1417195
 Project Location: OXY 32.132,-103.940297

Sampling Date: 02/19/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: LD-05 3 (H251006-05)

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	2.13	107	2.00	4.81		
Toluene*	<0.050	0.050	02/20/2025	ND	2.16	108	2.00	2.09		
Ethylbenzene*	<0.050	0.050	02/20/2025	ND	2.22	111	2.00	0.985		
Total Xylenes*	<0.150	0.150	02/20/2025	ND	6.85	114	6.00	1.65		
Total BTX	<0.300	0.300	02/20/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	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	227	113	200	1.98	
DRO >C10-C28*	<10.0	10.0	02/20/2025	ND	233	116	200	4.44	
EXT DRO >C28-C36	<10.0	10.0	02/20/2025	ND					

Surrogate: 1-Chlorooctane 81.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 02/20/2025
 Reported: 02/21/2025
 Project Name: BRADLEY 13 FEDERAL #001
 Project Number: 03B1417195
 Project Location: OXY 32.132,-103.940297

Sampling Date: 02/19/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: LD-05 5 (H251006-06)

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	2.13	107	2.00	4.81	
Toluene*	<0.050	0.050	02/20/2025	ND	2.16	108	2.00	2.09	
Ethylbenzene*	<0.050	0.050	02/20/2025	ND	2.22	111	2.00	0.985	
Total Xylenes*	<0.150	0.150	02/20/2025	ND	6.85	114	6.00	1.65	
Total BTEX	<0.300	0.300	02/20/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	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	227	113	200	1.98	
DRO >C10-C28*	<10.0	10.0	02/20/2025	ND	233	116	200	4.44	
EXT DRO >C28-C36	<10.0	10.0	02/20/2025	ND					

Surrogate: 1-Chlorooctane 89.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.1 % 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", written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Ensolum, LLC										BILL TO										ANALYSIS REQUEST									
Project Manager: Hadlie Green										P.O. #:																			
Address: 601 N. Mainfield St. STE 400										Company: OXY USA, Inc.																			
City: Midland State: TX Zip: 79701										Attn: Wade Ditrach																			
Phone #: 432-557-8895 Email: hgreen@ensolum.com										Address:																			
Project #: 03B1417195 Project Owner										City:																			
Project Name: Bradley 13 Federal 001										State: Zip:																			
Project Location: 32.132, -103.940292										Phone #:																			
Sampler Name: Kaoru Shimada										Email:																			
FOR LAB USE ONLY										MATRIX										PRESERV. SAMPLING									
Lab I.D. Sample I.D.										(G)RAB OR (C)OMP.																			
HAS1004										# CONTAINERS																			
1										GROUNDWATER																			
SW05										WASTEWATER																			
2										SOIL																			
SW06										OIL																			
3										SLUDGE																			
FS09										OTHER:																			
LD-05										ACID/BASE:																			
4										ICE / COOL																			
LD-05										OTHER:																			
5										DATE																			
LD-05										TIME																			
6										BTEx 8021 B																			
7										TPH 8015 M																			
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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 455299

QUESTIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 455299
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2218939473
Incident Name	NAPP2218939473 BRADLEY 13 FEDERAL 001 @ 30-015-29256
Incident Type	Oil Release
Incident Status	Deferral Request Received
Incident Well	[30-015-29256] BRADLY 13 FEDERAL #001

Location of Release Source

Please answer all the questions in this group.

Site Name	BRADLEY 13 FEDERAL 001
Date Release Discovered	07/06/2022
Surface Owner	Federal

Incident Details

Please answer all the questions in this group.

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

Nature and Volume of Release

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.

Crude Oil Released (bbls) Details	Cause: Equipment Failure Valve Crude Oil Released: 187 BBL Recovered: 96 BBL Lost: 91 BBL.
Produced Water Released (bbls) Details	Not answered.
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 455299

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 455299
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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

I hereby agree and sign off to the above statement	Name: Wade Dittrich Title: Environmental Coordinator Email: wade_dittrich@oxy.com Date: 01/30/2025
--	---

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QUESTIONS, Page 3

Action 455299

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 455299
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

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)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 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 ½ and 1 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between 1 and 5 (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)	6320
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	34800
GRO+DRO (EPA SW-846 Method 8015M)	28209
BTEX (EPA SW-846 Method 8021B or 8260B)	94.4
Benzene (EPA SW-846 Method 8021B or 8260B)	2
<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	07/06/2022
On what date will (or did) the final sampling or liner inspection occur	01/15/2025
On what date will (or was) the remediation complete(d)	06/20/2024
What is the estimated surface area (in square feet) that will be reclaimed	6170
What is the estimated volume (in cubic yards) that will be reclaimed	1142
What is the estimated surface area (in square feet) that will be remediated	6170
What is the estimated volume (in cubic yards) that will be remediated	1142
<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 455299

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 455299
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

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	No
OR is the off-site disposal site, to be used, an NMED facility	No
(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: Wade Dittrich Title: Environmental Coordinator Email: wade_dittrich@oxy.com Date: 04/24/2025
<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 455299

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 455299
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Deferral Requests Only	
<i>Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.</i>	
Requesting a deferral of the remediation closure due date with the approval of this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction	Yes
Please list or describe the production equipment and how (re)moving the equipment would cause major facility deconstruction	3 storage tanks, 4 surface steel utilities, 1 overhead steel utility, transfer pump, loading zone consisting of two buckets
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	3153
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	467
<i>Per Paragraph (2) of Subsection C of 19.15.29.12 NMAC if contamination is located in areas immediately under or around production equipment such as production tanks, wellheads and pipelines where remediation could cause a major facility deconstruction, the remediation, restoration and reclamation may be deferred with division written approval until the equipment is removed during other operations, or when the well or facility is plugged or abandoned, whichever comes first.</i>	
Enter the facility ID (f#) on which this deferral should be granted	Not answered.
Enter the well API (30-) on which this deferral should be granted	30-015-29256 BRADLY 13 FEDERAL #001
Contamination does not cause an imminent risk to human health, the environment, or groundwater	True
<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: Wade Dittrich Title: Environmental Coordinator Email: wade_dittrich@oxy.com Date: 04/24/2025

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QUESTIONS, Page 6

Action 455299

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 455299
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	431373
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/20/2025
What was the (estimated) number of samples that were to be gathered	10
What was the sampling surface area in square feet	3397

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	No
--	----

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

CONDITIONS

Action 455299

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 455299
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	Deferral approved. Deferral approved until plugging and abandonment or a major facility deconstruction, whichever comes first. A complete and accurate remediation report and/or reclamation report will need to be submitted at that time.	5/5/2025