

September 28, 2023

New Mexico Oil Conservation Division

New Mexico Energy, Minerals, and Natural Resources Department 1220 South St. Francis Drive Santa Fe, New Mexico 87505

Re: Closure Request

Harroun Ranch #005

Incident Number nAPP2200455573

Eddy County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of BTA Oil Producers, LLC (BTA), has prepared this *Closure Request* to document assessment, excavation, and soil sampling activities performed at the Harroun Ranch #005 (Site). The purpose of the excavation and soil sampling activities was to address impacts to soil resulting from a produced water release at the Site. Based on the excavation activities and laboratory analytical results from soil sampling events, BTA is submitting this *Closure Request*, describing remediation that has occurred and requesting closure for Incident Number nAPP2200455573.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit P, Section 20, Township 23 South, Range 29 East, in Eddy County, New Mexico (32.28407°, -104.00095°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On January 3, 2022, a valve froze on a sand trap tank, causing approximately 953 barrels (bbls) of produced water to be released onto the pad. BTA reported the release to the New Mexico Oil Conservation Division (NMOCD) and submitted a *Release Notification Form C-141* (Form C-141) on January 4, 2022. The release was assigned Incident Number nAPP2200455573.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess the applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented on page 6 of the Form C-141, Site Assessment/Characterization. Potential Site receptors are identified on Figure 1.

Depth to groundwater at the Site is estimated to be less than 50 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater is New Mexico Office of the State Engineer (NMOSE) well C-02707, located approximately 0.92 miles southeast of the Site. The groundwater well has a reported depth to groundwater of 18 feet bgs and a total depth of 40 feet bgs. All wells used for depth to groundwater determination are depicted on Figure 1 and the associated well records are included in Appendix A.

BTA Oil Producers, LLC Closure Request Harroun Ranch #005

The closest continuously flowing or significant watercourse to the Site is an intermittent stream, located approximately 796 feet east 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 and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (medium potential karst designation area). Site receptors are identified on Figure 1.

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

Benzene: 10 milligrams per kilogram (mg/kg)

Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg

Total Petroleum Hydrocarbons (TPH): 100 mg/kg

Chloride: 600 mg/kg

DELINEATION ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

On May 5, 2023, Ensolum personnel conducted an initial Site assessment to evaluate the release extent based on details outlined on the Form C-141 and visual observations. No visible indications of surface impacts were observed during the initial Site visit. Four soil samples (SS01 through SS04) were collected outside of the inferred release extent at a depth of 0.5 feet bgs to delineate the lateral extent of the release. Seven delineation boreholes (SS05 through SS11) were advanced via hand auger within the inferred release area, to assess for the presence or absence of impacted soil. Soil samples were collected from each borehole at a depth of 0.5 feet bgs. The soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID), and chloride using Hach® chloride QuanTab® test strips. Visual observations and field screening results were logged on lithologic soil sampling logs which are included in Appendix B. The inferred release area and soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation was completed during site assessment 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 the following chemicals of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-gasoline range organics (GRO) and TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following Standard Method 4500.0.

Laboratory analytical results for delineation soil samples SS01 through SS04 indicated all COC concentrations were compliant with the Site Closure Criteria and successfully defined the lateral extent of the inferred release area. Laboratory analytical results for delineation soil samples SS07, SS08, and SS11, collected at a depth of 0.5 feet bgs and within the inferred release area, indicated all COC concentrations were compliant with the Site Closure Criteria. Laboratory analytical results for SS05, SS06, SS09, and SS10, collected within the inferred release area at a depth of 0.5 feet bgs, indicated TPH and/or chloride concentrations exceeded the Site Closure Criteria. Based on laboratory analytical results for soil sample SS05, SS06, SS09, and SS10, excavation activities appeared to be warranted.

BTA Oil Producers, LLC Closure Request Harroun Ranch #005

EXCAVATION ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

Between May 24 and May 30, 2023, Ensolum personnel were on Site to oversee excavation activities to remove impacted soil within the release extent based on the laboratory analytical results from delineation activities. Excavation activities were performed utilizing hand shovels and back-hoe. To direct excavation activities, soil was screened for VOCs and chloride. The excavation was completed to a maximum depth of 1-foot bgs. Photographic documentation of the excavation activities is included in Appendix C.

Following removal of impacted soil, 5-point composite soil samples were collected at a frequency of one sample per 200 square foot zones from the floor and sidewalls of the excavation extent. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Due to the shallow depth of the excavation extent, the sidewalls were incorporated into the floor samples. Composite soil samples FS01 through FS54 were collected from the floor of the excavation at a depth of 1-foot bgs. In addition, seven discrete soil samples were collected from the potholes at depths ranging from 1-foot to 4 feet bgs. The soil samples were collected, handled, and analyzed following the same procedures as described above.

Laboratory analytical results indicated composite soil samples FS28, FS40, and FS41 contained TPH concentrations exceeding the Closure Criteria. COCs in all other composite soil samples from the floor and sidewalls of the excavation, as well as the six discrete pothole soil samples, were in compliance with Site Closure Criteria. The excavation extent and excavation soil sample locations are presented on Figure 3. Laboratory analytical results are summarized in Table 1 and laboratory analytical reports are included as Appendix D. Based on laboratory analytical results for soil samples FS28, FS40, and FS41, additional excavation activities were warranted.

On June 21, 2023, Ensolum personnel returned to the Site to continue excavation activities at the 200-square foot zones that exceeded the Closure Criteria. These zones were excavated an additional 0.25 feet to a depth of 1.25 feet bgs, and composite soil samples labeled FS28A, FS40A and FS41A were collected. The 5-point composite soil samples were collected as described above and were screened for VOCs and chloride.

Laboratory analytical results from the June 2023 sampling event indicated all COC concentrations in soil samples FS28A, FS40A and FS41A were compliant with the Closure Criteria.

The total excavation area measured approximately 10,800 square feet. Approximately 500 cubic yards of impacted soil was transported and properly disposed of at the OWL Landfill Services, LLC in Jal, New Mexico.

CLOSURE REQUEST

Site assessment and excavation activities were conducted to remediate impacted soil resulting from a produced water release at the Site. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated all COCs were compliant with the Site Closure Criteria. Delineation soil samples indicated all COCs were compliant with the Site Closure Criteria confirming the lateral and vertical extent of the inferred release area. Based on the soil sample laboratory analytical results, no further remediation was required.

No visible indications of the release were observed, and excavation of impacted soil has mitigated impacts at this Site. BTA believes these remedial actions are protective of human health, the environment, and groundwater. As such, BTA respectfully requests closure for Incident Number nAPP2200455573. Notifications submitted to the NMOCD are included in Appendix E and the final Form C-141 is included in Appendix F.



BTA Oil Producers, LLC Closure Request Harroun Ranch #005

If you have any questions or comments, please contact Ms. Tacoma Morrissey at (337) 257-8307 or tmorrissey@ensolum.com.

Daniel R. Moir. PG

Senior Managing Geologist

Sincerely, **Ensolum**, **LLC**

Tol 1.

Tabitha Guadian Assistant Geologist

Kelton Beaird, BTA

Bureau of Land Management

Appendices:

CC:

Figure 1 Site Receptor Map

Figure 2 Assessment Soil Sample Locations
Figure 3 Excavation Soil Sample Locations
Table 1 Soil Sample Analytical Results
Appendix A Appendix B Lithologic/Soil Sampling Logs

Appendix C Photographic Log

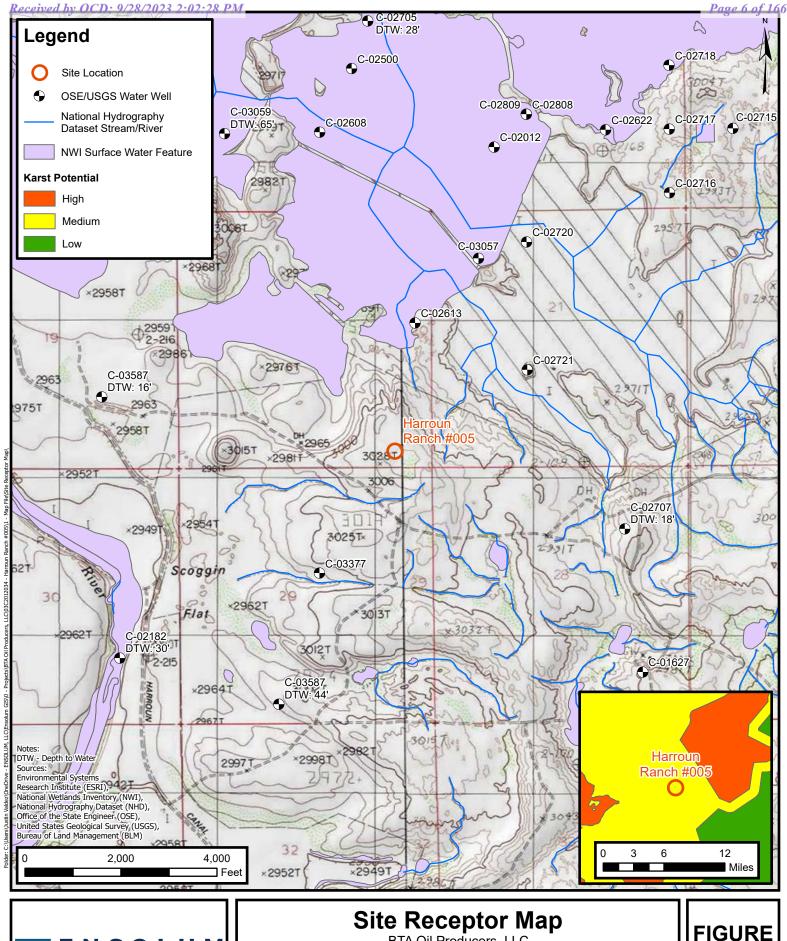
Appendix D Laboratory Analytical Reports & Chain-of-Custody Documentation

Appendix E NMOCD Notifications

Appendix F Final C-141

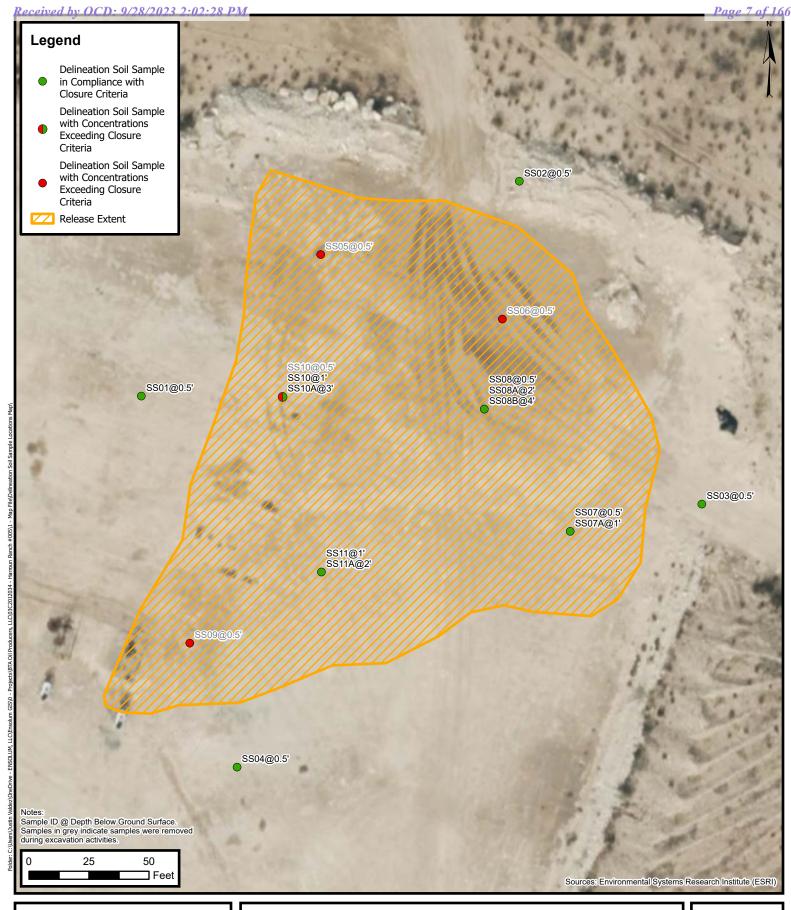


FIGURES





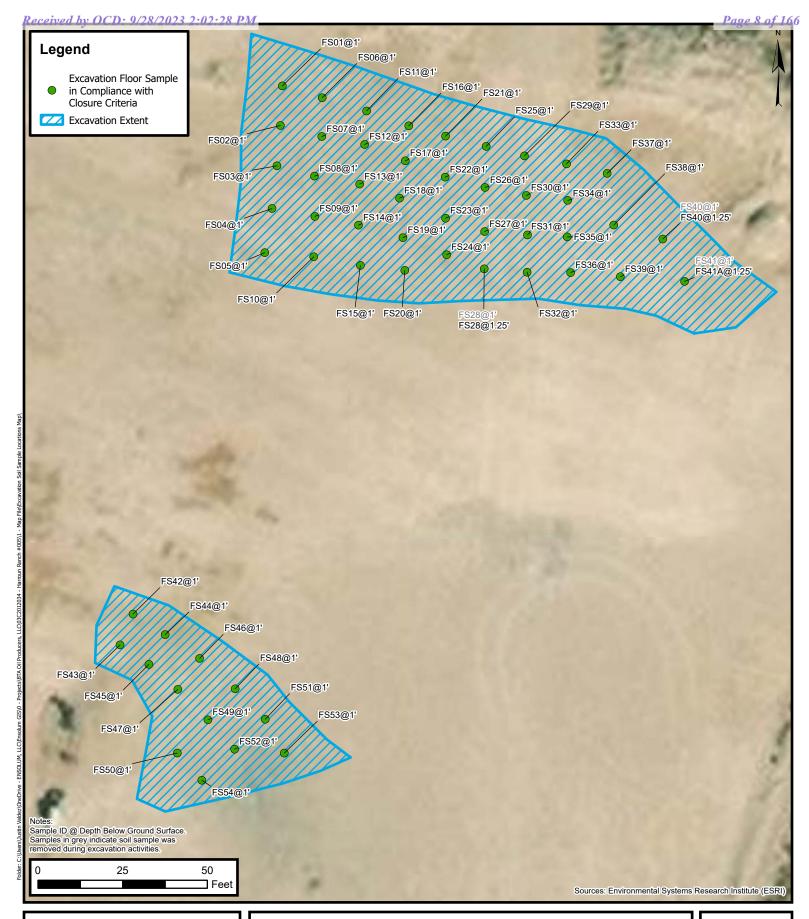
BTA Oil Producers, LLC Harroun Ranch #005 Incident Number: nAPP2200455573 Unit P, Sec 20, T23S, R29E Eddy County, New Mexico FIGURE 1





Delineation Soil Sample Locations

BTA Oil Producers, LLC Harroun Ranch #005 Incident Number: nAPP2200455573 Unit P, Sec 20, T23S, R29E Eddy County, New Mexico FIGURE 2





Excavation Soil Sample Locations

BTA Oil Producers, LLC Harroun Ranch #005 Incident Number: nAPP2200455573 Unit P, Sec 20, T23S, R29E Eddy County, New Mexico FIGURE 3



TABLES

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TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Harroun Ranch #005 BTA Oil Producers, LLC

				Eddy	County, New M	exico				
Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I	Closure Criteria	(NMAC 19.15.29)	10	50	NE	NE	NE	NE	100	600
				Deli	neation Soil Sam	ples				
SS01	05/08/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS02	05/08/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS03	05/08/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS04	05/08/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS05	05/08/2023	0.5	< 0.050	< 0.300	<10.0	1,390	273	1,390	1,663	14,000
SS06	05/08/2023	0.5	< 0.050	< 0.300	<10.0	2,790	479	2,790	3,269	2,800
SS07	05/08/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	336
SS07A	05/26/2023	1	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SS08	05/08/2023	0.5	<0.050	<0.300	<10.0	26.1	<10.0	26.1	26.1	96.0
SS08A	05/26/2023	2	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
SS08B	05/26/2023	4	<0.050	<0.300	<10.0	11.9	<10.0	11.9	11.9	592
SS09	05/08/2023	0.5	< 0.050	< 0.300	<10.0	444	271	444	715	3,120
SS10	05/26/2023	0.5	< 0.050	< 0.300	<10.0	<10.0	<10.0	<10.0	<10.0	640
SS10	06/21/2023	1 1	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
SS10A	05/26/2023	3	<0.050	<0.300	<10.0	16.8	<10.0	16.8	16.8	240
SS11	05/26/2023	1 1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
SS11A	05/26/2023	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
				Exc	avation Soil Sam	ples				
FS01	05/25/2023	1	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS02	05/25/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS03	05/25/2023	1	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS04	05/25/2023	1	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS05	05/25/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
FS06	05/25/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
FS07	05/25/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192

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TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Harroun Ranch #005 BTA Oil Producers, LLC Eddy County, New Mexico

				Laay	County, New Wi	JAIOO				
Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I	Closure Criteria	(NMAC 19.15.29)	10	50	NE	NE	NE	NE	100	600
FS08	05/25/2023	1	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
FS09	05/25/2023	1	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS10	05/25/2023	1	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS11	05/25/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
FS12	05/25/2023	1	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS13	05/25/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS14	05/25/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS15	05/25/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
FS16	05/25/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
FS17	05/25/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
FS18	05/25/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
FS19	05/25/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
FS20	05/25/2023	1	<0.050	<0.0300	<10.0	<10.0	<10.0	<10.0	<10.0	176
FS21	05/25/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
FS22	05/25/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
FS23	05/25/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
FS24	05/25/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS25	05/25/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS26	05/25/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS27	05/26/2023	1	<0.050	<0.300	<10.0	41.9	<10.0	41.9	41.9	224
FS28	05/26/2023	1	< 0.050	< 0.300	<10.0	120	<10.0	120	120	80.0
FS28A	06/21/2023	1.25	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	304
FS29	05/26/2023	1	< 0.050	<0.300	<10.0	99.3	<10.0	99.3	99.3	80.0
FS30	05/26/2023	1	< 0.050	<0.300	<10.0	81.0	<10.0	81.0	81.0	96.0
FS31	05/26/2023	1	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	400
FS32	05/26/2023	1	<0.050	<0.300	<10.0	22.4	<10.0	22.4	22.4	272
FS33	05/26/2023	1	<0.050	<0.300	<10.0	12.4	<10.0	12.4	12.4	304
FS34	05/26/2023	1	<0.050	<0.300	<10.0	16.4	<10.0	16.4	16.4	304
FS35	05/26/2023	1	<0.050	<0.300	<10.0	28.9	<10.0	28.9	28.9	304
FS36	05/26/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
FS37	05/26/2023	1	<0.050	<0.300	<10.0	12.9	<10.0	12.9	12.9	240
FS38	05/26/2023	1	<0.050	<0.300	<10.0	11.8	<10.0	11.8	11.8	208

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TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS

Harroun Ranch #005 BTA Oil Producers, LLC Eddy County, New Mexico

				Luuy	County, New Mic	SAICO				
Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I	Closure Criteria	(NMAC 19.15.29)	10	50	NE	NE	NE	NE	100	600
FS39	05/26/2023	1	< 0.050	<0.300	<10.0	14.6	<10.0	14.6	14.6	208
FS40	05/26/2023	1	< 0.050	< 0.300	<10.0	114	<10.0	114	114	224
FS40A	06/21/2023	1.25	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	288
FS41	05/26/2023	1	< 0.050	< 0.300	<10.0	228	14.1	228	242	224
FS41A	06/21/2023	1.25	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	336
FS42	05/30/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	400
FS43	05/30/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	416
FS44	05/30/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	304
FS45	05/30/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	320
FS46	05/30/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	288
FS47	05/30/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	320
FS48	05/30/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	336
FS49	05/30/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	336
FS50	05/30/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	288
FS51	05/30/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	304
FS52	05/30/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	304
FS53	05/30/2023	1	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	528
FS54	05/30/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	496

Notes:

bgs: below ground surface mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division NMAC: New Mexico Administrative Code

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics DRO: Diesel Range Organics ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or reclamation standard where applicable. **Grey** text represents samples that have been excavated



APPENDIX A

Referenced Well Records



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag POD Number Q64 Q16 Q4 Sec Tws Rng

X Y

C 02707 2 28 23S 29E

595535 3571868*

Driller Name:

Drill Start Date: 06/09/2000 **Drill Finish Date:** 06/09/2000 **Plug Date:**

Log File Date:08/28/2000PCW Rcv Date:Source:ShallowPump Type:Pipe Discharge Size:Estimated Yield:700 GPMCasing Size:2.38Depth Well:40 feetDepth Water:18 feet

Water Bearing Stratifications: Top Bottom Description

36 78 Limestone/Dolomite/Chalk

Casing Perforations: Top Bottom

35 40

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

8/22/23 8:52 AM

POINT OF DIVERSION SUMMARY

^{*}UTM location was derived from PLSS - see Help

Received

STATE ENGINEER OFFICE WELL RECORD

Revised June 1972

444311

Section 1. GENERAL INFORMATION

Street or	f well <u>IMC</u> Post Office Ac State <u>Car</u>	ldressB	<u>ox 71 </u>			Owne		
Well was drilled	i under Permit	No. C-2	707		and is locate	ed in the:		
a. <u>NE</u>	¼ ¼	i ¼	¼ of Se	ction 28	Township	23S Ran	ge <u>29E</u>	N.M.P.M
b. Tract	No	of Map No.		of	the			· · · · · · · · · · · · · · · · · · ·
	o vision, recorde							
						e System		
(B) Drilling (Contractor	Tavlor W	ater Wei	ll Serv	rice	License No	WD-1348	· .
Address7	317 Etch	everry R	d., Cari	lsbad,	NM 88220	, , , , , , , , , , , , , , , , , , , 		
Drilling Began	6/9/	OO Comp	pleted 6/9	9/00	Type tools	Rotary	Size of h	ole 6 in.
Elevation of la	nd.surface or _			at	well is IIK	ft. Total depth	of well4	0ft.
Completed wel	lis 🔽 si	nallow		CIDAL WA	Depth to wat	er upon completion	of well	ft.
Depth From	in Feet	Thickness in Feet			of Water-Bearing			ated Yield per minute)
36	40	4	Limes	stone:b	orn, vfn xl	n,dolo	70	0
·								
Secretary, page 18 and the Secretary of Secr			Section	n 3 RECOI	RD OF CASING	<u> </u>	Page	3
Diameter	Pounds	Threads		in Feet	Length	Type of Sho	e 	erforations
(inches) 2 3/8	per foot Sch 40	per in.	Тор +2	Bottom 40	(feet) 42	Cap	Fro 3	
	5011 40	Lusii	· 4		44	Сар		
······································	<u> </u>	Secti	on 4 PECOI	PD OF MIII	DDING AND CE	MENTING	Photo and of	n (334)
Depth From	in Feet To	Hole Diameter	Sack of M	cs	Cubic Feet of Cement		d of Placeme	ent
				,			·	
					GING RECORD	•		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
	actor					Depth in 1	Feet	Cubic Feet
Plugging Metho	od				No.	Тор	Bottom	of Cement
Date Well Plugg Plugging appro	ged wed by:		7.7.7.83		1 2			
		State Eng	ineer Repress	entative	3 4			
Data Ba	00 00 00	100	FOR USE	OF STATE	ENGINEER ON	LY		
Date Received	08-28-20	100		Qι	ıad	FWL _		FSL
File No. C-	2707			Use	onitor	_ Location No2	23S.29E.2	8.2

Depth From	in Feet To	Thickness in Feet	Color and Type of Material Encountered
0	2	2	Soil
2	8	6	Loose cobble+gravel
8	16	8	Caliche
16	36	20	Clay:pnk,sndy
36	40	4	Limestone:brn,vfn-micxln,very dolomitic,fractured

Section 7. REMARKS AND ADDITIONAL INFORMATION

Air drilled to 40'. Sand packed from 30-40'. Grouted from 30' to surface.

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

Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All sections, except Section 5, shall be answered as completely applications are prescribed as a plugging record, only Section 1(a) Section 5 need be completed.

Refeased to Imaging: 3/18/2024 11:08:38 AM

STATE ENGINEER OFFICE WELL RECORD

444312

Section 1. GENERAL INFORMATION

City and S	tate <u>Carl</u>	sbad, NM	88220	·						
l was drilled	under Permit	No. <u>C-27</u>	07		and	l is located i	n the:			
a. <u>NE</u>	. ¼ ¼	¼	¼ of Se	ection 28	T	ownship2	Rang	e <u>29E</u>	N.M.P.N	
b. Tract N	lo	_ of Map No		0	f the			<u> </u>		
		of Block No								
		,			•		ystem			
) Drilling Co	ontractor	Caylor Wa	ter We	ll Ser	vice		_ License NoI	VD-1348		
ldress7_3	17 Etche	everry Rd	., Car	lsbad,	NM 8	8220				
		-					Rotary			
							_ ft. Total depth o		•	
•										
mpleted well	is bx⊐ sl	nallow 🔲 ar					upon completion	,		
Depth i	n Feet	Secti Thickness				ARING ST			ed Yield	
From	То	in Feet		Description of Water-Bearing Formation (gallons pe						
36	78	42	Lime	stone:	brn,o	ff wht	,pnk,mic	700		
	W 1/F		x1n	,fract	ured					
								Constitution of the Consti	28 <u>66</u>	
				- Walled				198 		
			Secti	on 3. REC	ORD OF	CASING		The second secon		
Diameter (inches)	Pounds per foot	Threads Dep		in Feet Botto	m	Length (feet)	Type of Shoo	Fron	erforations To	
(1101100)	Por	For		Botto	***				45	
	. , ,, ,, ., ., ., .,									
							1,2			
Depth	in Feet	Section Hole	T	ORD OF M	Cubic	Feet		d of Placemer	n.t	
From	То	Diameter	of I	Mud ————	of Ce	ment				
			<u> </u>							
								· · ·		
				ion 5. PLU		RECORD		•		
						- - No.	Depth in	Feet	Cubic Feet	
lugging Metho ate Well Plugs	d						Тор	Bottom	of Cement	
ugging appro			***************************************			_ 3				
		State Eng	ineer Repr	esentative		- <u>3</u> 4		,		
			FOR US	E OF STA	TE ENGI	NEER ONL	Υ			
ate Received	08-28-	2000					FWL _			
400 10001104					Onad		I-WI		FSL.	

			Section 6. LOG OF HOLE
Depth From	in Feet To	Thickness in Feet	Color and Type of Material Encountered
0	3	3	Soi1
3	86	50	Looseslime+dolo gravel+cobble
8 5	36	28	Clay:rd,sme sndy
36	46	10	Ls:brn,vfn-micxln,dolomitic,losing returns
46	52	6	Ls:off wht,pnk,vfm xln,vry dolomitic,losing return
52	56	4	Shale:rd,sme anhy
56	78	32	LS:1t gry,dns,vry dolomitic,sme 1t gry+ch1ky
78	142	64	Clay:rd,smth,sme wht anhy,sme gry siltstone
142	182	60	Clay:blu gry,sft,smth
182	208	26	Clay:rd, sme wht anhy, tr gry siltstone, sme rd anhy
208	213.5	5.5	Anhy:wht,gry,sme gyp

Section 7. REMARKS AND ADDITIONAL INFORMATION

Drilled with mud to 213.5!. Packer tested. Plugged well back with cement grout. Brought grout up too far and plugged water zone. Drilled new hole with air 10' from this hole.

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

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

Eddy County, New Mexico

Latitude 32°16'15", Longitude 104°01'46" NAD27
Land-surface elevation 2,962 feet above NAVD88
The depth of the well is 89 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

	Output forn	nats	
Table of data			
Tab-separated data			
Graph of data			
Reselect period			1
			<u> </u>

Date \$	Time \$	Water-level date-time accuracy	Parameter ≎	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical \$\datum\$	⊘ Status ≎	Method of the measurement	Measuring \$ agency	Source of the measurement	Water-level approval status
1954-11-08		D	6261	0	2924.82	NGVD29	1	Z			A
1954-11-08		D	6261	1	2926.38	NAVD88	1	Z			А
1954-11-08		D	7201	9 35.62			1	Z			A
					Expl	anation					
Section			≎ Cod	e \$	Description						\$
Water-level date-time acc	curacy			D	Date is accurate to the Da	ау					

62610 Groundwater level above NGVD 1929, feet Parameter code 62611 Groundwater level above NAVD 1988, feet Parameter code Parameter code 72019 Depth to water level, feet below land surface North American Vertical Datum of 1988 Referenced vertical datum NAVD88 Referenced vertical datum National Geodetic Vertical Datum of 1929 NGVD29 Static Status Method of measurement Other. Measuring agency Not determined Source of measurement Not determined Released to Imaging: 3/18/2024 11:08:38 AM Approved for publication -- Processing and review completed.



APPENDIX B

Lithologic/Soil Sampling Logs

								Sample Name: SS07	Date: 5/26/2023
	7		NI	C	OI		M	Site Name: Harroun Ranch #	† 005
								Incident Number: nAPP2200	0455573
								Job Number: 03C2012034	
	I	LITHOL	OGIO	C / SOIL S	AMPLING	LOG		Logged By: Peter Van Patter	
	nates: 32							Hole Diameter:	Total Depth: 1'
			_		to distilled			PID for chloride and vapor, related.	espectively. Chloride test
							USCS/Rock Symbol	Lithologi	c Descriptions
Damp	ND	0.1	z	SS07A	1	1 0		Sand: Brown, fine grain abundant white caliche Refusal after 1' bgs	n, moderatly graded, e gravel, no stain,no odor

								Sample Name: SS08	Date: 5/26/2023	
				6	OL			Site Name: Harroun Ranch #005		
			V	3		_ U	IVI	Incident Number: nAPP220045557	3	
								Job Number: 03C2012034		
	1	ITHOL	ogic	: / SOIL S	AMPLING	LOG		ogged By: Peter Van Patten Method: Backhoe		
Coordin		.284272,-						Hole Diameter:	Total Depth: 4'	
					th HACH Chl	oride Test S	trips and	PID for chloride and vapor, respecti	· ·	
			_		to distilled v				,	
Moisture Content	Content Content Content Chloride (ppm) Vapor (ppm) Sample ID Debth (tt pds) USCS/Rock Symbol						JSCS/Rock Symbol	Lithologic Descriptions		
						0				
Damp	ND	0.1	N		- - - -	1 0 - - - 1	СННЕ	Caliche: tan, light brown, no	stain, no odor	
Damp	526	0.1	N	SS08A	2 _	2	CHHE	Caliche: tan to brown, some no stain, no odor	gray/green concrete,	
Damp	ND	0.1	N		-	3	SP-SM	Sand: brown, light brown, fingraded, some caliche gravel,	no stain, no odor	
Damp	526	0.1	N	SS08B	4 _	4	SP-SM	Sand/Caliche: light tan, brow grain, poorly graded, some of TD at 4' bgs	vn, gray, red, fine concrete, no stain/odor	
					-	- - _ 5				
					-	- - 6				
					-	- - 7				
					-	- - 8				
					-	- _ 9 -				
					- - - -	- _ 10				
					- - - -	- _ 11 -				
					-	- 12				

								Sample Name: SS10	Date: 5/26/2023		
				C	OL			-			
			N	3		_ U	IAI	Incident Number: nAPP220045557	3		
								Job Number: 03C2012034			
	ı	ITHOL	OGIC	/ SOIL S	AMPLING	LOG		Logged By: Peter Van Patten Method: Backhoe			
Coordir	nates: 32							Hole Diameter:	Total Depth: 4'		
Comme	ents: Field	d screenii	ng co	nducted w	ith HACH Chl	oride Test S	trips and	PID for chloride and vapor, respecti	vely. Chloride test		
perforn	ned with	1:4 diluti	on fa	ctor of soil	to distilled v	water. 40% f	actors inc	cluded.			
Moisture Content	_						USCS/Rock Symbol	Lithologic Des	criptions		
Damp Damp		0.1	Z	SS10	1 - 1 - -	0 1 2 2	СННЕ	Caliche: light tan, pinkish tar no stain, no odor SAA (same as above): no sta odor			
Damp	257	2.2	N	SS10A	3	3	CHHE	SAA: no stain, slight hydrocarbon odor			
Damp	176	10.5	N			- 4 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11	СННЕ	SAA: no stain, hydrocarbon of TD at 4' bgs	odor		

								Sample Name: SS11	Date: 5/26/2023
				6				Site Name: Harroun Ranch #005	
			V	3	OL	_ U	V	Incident Number: nAPP22004555	73
								Job Number: 03C2012034	
	ı	LITHOL	OGIO	C / SOIL S	AMPLING	LOG		Logged By: Peter Van Patten	Method: Backhoe
Coordi		.284131,						Hole Diameter:	Total Depth: 4'
			_		th HACH Chl to distilled v			PID for chloride and vapor, respect cluded.	ively. Chloride test
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Des	scriptions
Damp Damp Damp	ND 212 176	0.1 0.1 0.1		SS11 SS11A	1	1 0 - 1 - 2 - 3 - 4 - 5 - 6	СННЕ		wnish tan, fine grain, , no stain, no odor
						- 8 - 9 - 10 - 11 - 11			



APPENDIX C

Photographic Log



Photographic Log

BTA Oil Producers, LLC Harroun Ranch #005 nAPP2200455573





Photograph: 1 Date: 5/5/2023

Description: Soil staining in release footprint

View: Southeast

Photograph: 2 Date: 5/24/2023

Description: Excavation activities

View: Northwest





Photograph: 3 Date: 5/25/2023

Description: Excavation activities

View: Northeast

Photograph: 4 Date: 5/30/2023

Description: Completed excavation activites

View: Southeast



APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



May 11, 2023

HADLIE GREEN
ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD, NM 88220

RE: HARROUN RANCH #005

Enclosed are the results of analyses for samples received by the laboratory on 05/08/23 14:27.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

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

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

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



05/05/2023

Analytical Results For:

ENSOLUM HADLIE GREEN 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 05/08/2023 Sampling Date:

Reported: 05/11/2023 Sampling Type: Soil Project Name: HARROUN RANCH #005 Sampling Condition: Coo

Project Name: HARROUN RANCH #005 Sampling Condition: Cool & Intact
Project Number: 03C2012034 Sample Received By: Shalyn Rodriguez

Project Location: BTA - (32.28407-104.00095)

Sample ID: SS 01 @ 0.5' (H232262-01)

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	05/09/2023	ND	1.99	99.7	2.00	15.7	
Toluene*	<0.050	0.050	05/09/2023	ND	1.94	97.0	2.00	14.3	
Ethylbenzene*	<0.050	0.050	05/09/2023	ND	2.03	102	2.00	13.9	
Total Xylenes*	<0.150	0.150	05/09/2023	ND	5.97	99.5	6.00	14.1	
Total BTEX	<0.300	0.300	05/09/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/09/2023	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	05/09/2023	ND	220	110	200	1.72	
DRO >C10-C28*	<10.0	10.0	05/09/2023	ND	207	103	200	1.35	
EXT DRO >C28-C36	<10.0	10.0	05/09/2023	ND					
Surrogate: 1-Chlorooctane	112 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	111 9	% 49.1-14	8						

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Celey & Keene



Analytical Results For:

ENSOLUM HADLIE GREEN 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 05/08/2023 Sampling Date: 05/05/2023

Reported: 05/11/2023 Sampling Type: Soil

Project Name: HARROUN RANCH #005 Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C2012034 Shalyn Rodriguez

Project Location: BTA - (32.28407-104.00095)

Sample ID: SS 02 @ 0.5' (H232262-02)

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	05/09/2023	ND	1.99	99.7	2.00	15.7	
Toluene*	<0.050	0.050	05/09/2023	ND	1.94	97.0	2.00	14.3	
Ethylbenzene*	<0.050	0.050	05/09/2023	ND	2.03	102	2.00	13.9	
Total Xylenes*	<0.150	0.150	05/09/2023	ND	5.97	99.5	6.00	14.1	
Total BTEX	<0.300	0.300	05/09/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/09/2023	ND	432	108	400	3.64	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/09/2023	ND	163	81.6	200	5.85	
DRO >C10-C28*	<10.0	10.0	05/09/2023	ND	186	92.9	200	7.87	
EXT DRO >C28-C36	<10.0	10.0	05/09/2023	ND					
Surrogate: 1-Chlorooctane	91.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	114 9	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

ENSOLUM HADLIE GREEN 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 05/08/2023 Sampling Date: 05/05/2023

Reported: 05/11/2023 Sampling Type: Soil

Project Name: HARROUN RANCH #005 Sampling Condition: Cool & Intact
Project Number: 03C2012034 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: BTA - (32.28407-104.00095)

Sample ID: SS 03 @ 0.5' (H232262-03)

BTEX 8021B

	9,	9	7	7: 5::					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/09/2023	ND	1.99	99.7	2.00	15.7	
Toluene*	<0.050	0.050	05/09/2023	ND	1.94	97.0	2.00	14.3	
Ethylbenzene*	<0.050	0.050	05/09/2023	ND	2.03	102	2.00	13.9	
Total Xylenes*	<0.150	0.150	05/09/2023	ND	5.97	99.5	6.00	14.1	
Total BTEX	<0.300	0.300	05/09/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 % 71.5-134 mg/kg		4						
Chloride, SM4500Cl-B			Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/09/2023	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	05/09/2023	ND	163	81.6	200	5.85	
DRO >C10-C28*	<10.0	10.0	05/09/2023	ND	186	92.9	200	7.87	
EXT DRO >C28-C36	<10.0	10.0	05/09/2023	ND					
Surrogate: 1-Chlorooctane	90.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

ENSOLUM HADLIE GREEN 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 05/08/2023 Sampling Date: 05/05/2023

Reported: 05/11/2023 Sampling Type: Soil

Project Name: HARROUN RANCH #005 Sampling Condition: Cool & Intact
Project Number: 03C2012034 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: BTA - (32.28407-104.00095)

Sample ID: SS 04 @ 0.5' (H232262-04)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/09/2023	ND	1.99	99.7	2.00	15.7	
Toluene*	<0.050	0.050	05/09/2023	ND	1.94	97.0	2.00	14.3	
Ethylbenzene*	<0.050	0.050	05/09/2023	ND	2.03	102	2.00	13.9	
Total Xylenes*	<0.150	0.150	05/09/2023	ND	5.97	99.5	6.00	14.1	
Total BTEX	<0.300	0.300	05/09/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/09/2023	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	05/09/2023	ND	163	81.6	200	5.85	
DRO >C10-C28*	<10.0	10.0	05/09/2023	ND	186	92.9	200	7.87	
EXT DRO >C28-C36	<10.0	10.0	05/09/2023	ND					
Surrogate: 1-Chlorooctane	91.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	113	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

ENSOLUM HADLIE GREEN 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 05/08/2023 Sampling Date: 05/05/2023

Reported: Sampling Type: Soil 05/11/2023

Project Name: HARROUN RANCH #005 Sampling Condition: Cool & Intact Shalyn Rodriguez Project Number: 03C2012034 Sample Received By:

Project Location: BTA - (32.28407-104.00095)

Sample ID: SS 05 @ 0.5' (H232262-05)

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	05/09/2023	ND	1.99	99.7	2.00	15.7	
Toluene*	<0.050	0.050	05/09/2023	ND	1.94	97.0	2.00	14.3	
Ethylbenzene*	<0.050	0.050	05/09/2023	ND	2.03	102	2.00	13.9	
Total Xylenes*	<0.150	0.150	05/09/2023	ND	5.97	99.5	6.00	14.1	
Total BTEX	<0.300	0.300	05/09/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	14000	16.0	05/09/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/09/2023	ND	163	81.6	200	5.85	
DRO >C10-C28*	1390	10.0	05/09/2023	ND	186	92.9	200	7.87	
EXT DRO >C28-C36	273	10.0	05/09/2023	ND					
Surrogate: 1-Chlorooctane	85.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	111	% 49.1-14	'8						

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Celeg D. Keene



Analytical Results For:

ENSOLUM HADLIE GREEN 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 05/08/2023 Sampling Date: 05/05/2023

Reported: Sampling Type: Soil 05/11/2023

Project Name: HARROUN RANCH #005 Sampling Condition: Cool & Intact Sample Received By: Shalyn Rodriguez Project Number: 03C2012034

Project Location: BTA - (32.28407-104.00095)

Sample ID: SS 06 @ 0.5' (H232262-06)

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	05/10/2023	ND	1.99	99.7	2.00	15.7	
Toluene*	<0.050	0.050	05/10/2023	ND	1.94	97.0	2.00	14.3	
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.03	102	2.00	13.9	
Total Xylenes*	<0.150	0.150	05/10/2023	ND	5.97	99.5	6.00	14.1	
Total BTEX	<0.300	0.300	05/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2800	16.0	05/09/2023	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/09/2023	ND	163	81.6	200	5.85	
DRO >C10-C28*	2790	10.0	05/09/2023	ND	186	92.9	200	7.87	
EXT DRO >C28-C36	479	10.0	05/09/2023	ND					
Surrogate: 1-Chlorooctane	94.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	120	% 49.1-14	8						

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Analytical Results For:

ENSOLUM HADLIE GREEN 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 05/08/2023 Sampling Date: 05/05/2023

Reported: 05/11/2023 Sampling Type: Soil

Project Name: HARROUN RANCH #005 Sampling Condition: Cool & Intact
Project Number: 03C2012034 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: BTA - (32.28407-104.00095)

Sample ID: SS 07 @ 0.5' (H232262-07)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2023	ND	1.99	99.7	2.00	15.7	
Toluene*	<0.050	0.050	05/10/2023	ND	1.94	97.0	2.00	14.3	
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.03	102	2.00	13.9	
Total Xylenes*	<0.150	0.150	05/10/2023	ND	5.97	99.5	6.00	14.1	
Total BTEX	<0.300	0.300	05/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	113	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	05/09/2023	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	05/11/2023	ND	163	81.6	200	5.85	
DRO >C10-C28*	<10.0	10.0	05/11/2023	ND	186	92.9	200	7.87	
EXT DRO >C28-C36	<10.0	10.0	05/11/2023	ND					
Surrogate: 1-Chlorooctane	110	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	120	% 49.1-14	8						

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Analytical Results For:

ENSOLUM HADLIE GREEN 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 05/08/2023 Sampling Date: 05/05/2023

Reported: 05/11/2023 Sampling Type: Soil

Project Name: HARROUN RANCH #005 Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C2012034 Shalyn Rodriguez

Project Location: BTA - (32.28407-104.00095)

Sample ID: SS 08 @ 0.5' (H232262-08)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2023	ND	1.99	99.7	2.00	15.7	
Toluene*	<0.050	0.050	05/10/2023	ND	1.94	97.0	2.00	14.3	
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.03	102	2.00	13.9	
Total Xylenes*	<0.150	0.150	05/10/2023	ND	5.97	99.5	6.00	14.1	
Total BTEX	<0.300	0.300	05/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 %	6 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	05/09/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/09/2023	ND	198	99.1	200	2.48	
DRO >C10-C28*	26.1	10.0	05/09/2023	ND	193	96.6	200	0.488	
EXT DRO >C28-C36	<10.0	10.0	05/09/2023	ND					
Surrogate: 1-Chlorooctane	98.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	109 9	6 49.1-14	8						

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Analytical Results For:

ENSOLUM HADLIE GREEN 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 05/08/2023 Sampling Date: 05/05/2023

Reported: 05/11/2023 Sampling Type: Soil

Project Name: HARROUN RANCH #005 Sampling Condition: Cool & Intact Shalyn Rodriguez Project Number: 03C2012034 Sample Received By:

Project Location: BTA - (32.28407-104.00095)

Sample ID: SS 09 @ 0.5' (H232262-09)

BTEX 8021B	mg,	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2023	ND	1.99	99.7	2.00	15.7	
Toluene*	<0.050	0.050	05/10/2023	ND	1.94	97.0	2.00	14.3	
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.03	102	2.00	13.9	
Total Xylenes*	<0.150	0.150	05/10/2023	ND	5.97	99.5	6.00	14.1	
Total BTEX	<0.300	0.300	05/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3120	16.0	05/09/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/09/2023	ND	163	81.6	200	5.85	
DRO >C10-C28*	444	10.0	05/09/2023	ND	186	92.9	200	7.87	
EXT DRO >C28-C36	271	10.0	05/09/2023	ND					
Surrogate: 1-Chlorooctane	86.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.1	% 49.1-14	8						

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Notes and Definitions

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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Celeg D. Freene

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



Bacteria (only) Sample Condition Cool Infact Observed Temp. °C Yes Yes Orrected Temp. °C	Bacteria (only) Cool Intact Yes Yes	ad DE	Standard Rush	Time: ID #113 ctor -0.6°C	Turnaround Time: Thermometer ID #1 Correction Factor -0	(Injulais)	^	Sample Condition Cool Intact Wes Yes	1	000	Observed Temp. °C 0, 1 Corrected Temp. °C 0, 5	1017	Delivered By: (Circle One) Sampler - UPS - Bus - Ott
	B	3	2	200	1	C	v				Time:		
	All Results are emailed. Please provide Email address:	D W	ed. Pleas	are email	All Results	AND	00	SOR	Received By		Time: H2	A STATE OF THE STA	Relinquished By:
	Add'l Phone #:	□ No Add	□ Yes □	it: "	ent, its subsidiaries, sons or otherwise. Verbal Result:	Unernial damages, including without imitiation, dustriess interruptoes, loss of use, or loss of profits incurred by clif of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated rear Date: Received By:	s based upon	ess interruptors, in hether such claim	final, regardless of whe Received By:	by Cardinal,	nsequental damages, including note of services hereunder by C	sing out of or related to the performa y:	Service. In to event smill calculate the labore for incomental or consequential damages, including without immation, business merruptions, loss of loss, or loss of profits incurred by client, its subsidiaries, self-independent subsidiaries, self-independent subsidiaries, and including without immation, business merruptions, loss of loss, or loss of profits incurred by client, its subsidiaries, self-independent subsidiaries, and including without immation, business merruptions, loss of loss, or loss of profits incurred by client, its subsidiaries, self-independent subsidiaries, and including without immation, business merruptions, loss of loss, or loss of profits incurred by client, its subsidiaries, self-independent subsidiaries, and including without immation, business merruptions, loss of loss, or loss of profits incurred by client, its subsidiaries, self-independent subsidiaries, and including without immation, business merruptions, loss of loss, or loss of profits incurred by client, its subsidiaries, self-independent subsidiaries, and including without immation, business merruptions, loss of loss, or loss of profits incurred by client, its subsidiaries, self-independent subsidiaries, and including without immation, business merruptions, loss of loss, or loss of profits incurred by client, its subsidiaries, self-independent subsidiaries, and including without immation, business merruptions, loss of loss of profits incurred by calculations, and including without immation, business merruptions, loss of loss of profits incurred by calculations, and including without immation, business merruptions, loss of loss of profits incurred by calculations, and loss of loss of profits incurred by calculations, and loss of
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REQUEST	ANALYSIS RE	AN				BILL TO					MC	Campo ma	Company Name:
										393-24/6	FAX (5/5) 39	(5/5) 393-2326	



June 01, 2023

HADLIE GREEN

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: HARROUN RANCH #005

Enclosed are the results of analyses for samples received by the laboratory on 05/26/23 12:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Received: 05/26/2023 Reported: 06/01/2023

Project Name: HARROUN RANCH #005

Project Number: 03C2012

Project Location: BTA 32.28407,-104.00095

Sampling Date: 05/25/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 01 1' (H232699-01)

DTEV 0021D

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/26/2023	ND	1.98	98.8	2.00	1.43	
Toluene*	<0.050	0.050	05/26/2023	ND	2.06	103	2.00	1.84	
Ethylbenzene*	<0.050	0.050	05/26/2023	ND	1.96	98.0	2.00	2.49	
Total Xylenes*	<0.150	0.150	05/26/2023	ND	6.07	101	6.00	3.43	
Total BTEX	<0.300	0.300	05/26/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	05/26/2023	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/27/2023	ND	199	99.6	200	1.94	
DRO >C10-C28*	<10.0	10.0	05/27/2023	ND	197	98.6	200	0.855	
EXT DRO >C28-C36	<10.0	10.0	05/27/2023	ND					
Surrogate: 1-Chlorooctane	68.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	68.6	% 49.1-14	8						

Applyand By 1H /

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Celey D. Keene



Analytical Results For:

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

Received: 05/26/2023 Reported: 06/01/2023

Project Name: HARROUN RANCH #005

Project Number: 03C2012

Project Location: BTA 32.28407,-104.00095

mg/kg

Sampling Date: 05/25/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 02 1' (H232699-02)

BTEX 8021B

	9/	9	7	7: 5::.,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/26/2023	ND	1.98	98.8	2.00	1.43	
Toluene*	<0.050	0.050	05/26/2023	ND	2.06	103	2.00	1.84	
Ethylbenzene*	<0.050	0.050	05/26/2023	ND	1.96	98.0	2.00	2.49	
Total Xylenes*	<0.150	0.150	05/26/2023	ND	6.07	101	6.00	3.43	
Total BTEX	<0.300	0.300	05/26/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/26/2023	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/27/2023	ND	199	99.6	200	1.94	
DRO >C10-C28*	<10.0	10.0	05/27/2023	ND	197	98.6	200	0.855	
EXT DRO >C28-C36	<10.0	10.0	05/27/2023	ND					
Surrogate: 1-Chlorooctane	72.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	74.4	% 49.1-14	8						

Analyzed By: JH/

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Analytical Results For:

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

Received: 05/26/2023 Reported: 06/01/2023

Project Name: HARROUN RANCH #005

Project Number: 03C2012

Project Location: BTA 32.28407,-104.00095

ma/ka

Sampling Date: 05/25/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Sample ID: FS 03 1' (H232699-03)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/26/2023	ND	1.98	98.8	2.00	1.43	
Toluene*	<0.050	0.050	05/26/2023	ND	2.06	103	2.00	1.84	
Ethylbenzene*	<0.050	0.050	05/26/2023	ND	1.96	98.0	2.00	2.49	
Total Xylenes*	<0.150	0.150	05/26/2023	ND	6.07	101	6.00	3.43	
Total BTEX	<0.300	0.300	05/26/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/26/2023	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/27/2023	ND	199	99.6	200	1.94	
DRO >C10-C28*	<10.0	10.0	05/27/2023	ND	197	98.6	200	0.855	
EXT DRO >C28-C36	<10.0	10.0	05/27/2023	ND					
Surrogate: 1-Chlorooctane	64.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	64.2	% 49.1-14	8						

Analyzed By: 1H /

Cardinal Laboratories *=Accredited Analyte

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Analytical Results For:

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

Received: 05/26/2023 Reported: 06/01/2023

HARROUN RANCH #005

ma/ka

Project Name: HARROUI
Project Number: 03C2012

Project Location: BTA 32.28407,-104.00095

Sampling Date: 05/25/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 04 1' (H232699-04)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/26/2023	ND	1.98	98.8	2.00	1.43	
Toluene*	<0.050	0.050	05/26/2023	ND	2.06	103	2.00	1.84	
Ethylbenzene*	<0.050	0.050	05/26/2023	ND	1.96	98.0	2.00	2.49	
Total Xylenes*	<0.150	0.150	05/26/2023	ND	6.07	101	6.00	3.43	
Total BTEX	<0.300	0.300	05/26/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/26/2023	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/27/2023	ND	199	99.6	200	1.94	
DRO >C10-C28*	<10.0	10.0	05/27/2023	ND	197	98.6	200	0.855	
EXT DRO >C28-C36	<10.0	10.0	05/27/2023	ND					
Surrogate: 1-Chlorooctane	68.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	70.4	% 49.1-14	8						

Analyzed By: 1H /

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Sample Received By:

05/25/2023

Tamara Oldaker

Analytical Results For:

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

Received: 05/26/2023 Sampling Date:

Reported: 06/01/2023 Sampling Type: Soil
Project Name: HARROUN RANCH #005 Sampling Condition: Cool & Intact

Project Number: 03C2012

Project Location: BTA 32.28407,-104.00095

Sample ID: FS 05 1' (H232699-05)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/26/2023	ND	1.98	98.8	2.00	1.43	
Toluene*	<0.050	0.050	05/26/2023	ND	2.06	103	2.00	1.84	
Ethylbenzene*	<0.050	0.050	05/26/2023	ND	1.96	98.0	2.00	2.49	
Total Xylenes*	<0.150	0.150	05/26/2023	ND	6.07	101	6.00	3.43	
Total BTEX	<0.300	0.300	05/26/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13-	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	05/26/2023	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/27/2023	ND	199	99.6	200	1.94	
DRO >C10-C28*	<10.0	10.0	05/27/2023	ND	197	98.6	200	0.855	
EXT DRO >C28-C36	<10.0	10.0	05/27/2023	ND					
Surrogate: 1-Chlorooctane	64.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	63.3	% 49.1-14	8						

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Analytical Results For:

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

Received: 05/26/2023 Reported: 06/01/2023

Project Name: HARROUN RANCH #005

Project Number: 03C2012

Project Location: BTA 32.28407,-104.00095 Sampling Date: 05/25/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Sample ID: FS 06 1' (H232699-06)

BTEX 8021B	mg/	'kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/26/2023	ND	1.98	98.8	2.00	1.43	
Toluene*	<0.050	0.050	05/26/2023	ND	2.06	103	2.00	1.84	
Ethylbenzene*	<0.050	0.050	05/26/2023	ND	1.96	98.0	2.00	2.49	
Total Xylenes*	<0.150	0.150	05/26/2023	ND	6.07	101	6.00	3.43	
Total BTEX	<0.300	0.300	05/26/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	05/26/2023	ND	432	108	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/27/2023	ND	199	99.6	200	1.94	
DRO >C10-C28*	<10.0	10.0	05/27/2023	ND	197	98.6	200	0.855	
EXT DRO >C28-C36	<10.0	10.0	05/27/2023	ND					
Surrogate: 1-Chlorooctane	73.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	76.6	% 49.1-14	8						

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Analytical Results For:

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

Received: 05/26/2023 Reported: 06/01/2023

Project Name: HARROUN RANCH #005

Project Number: 03C2012

Project Location: BTA 32.28407,-104.00095 Sampling Date: 05/25/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Sample ID: FS 07 1' (H232699-07)

BTEX 8021B	mg/	'kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/26/2023	ND	1.98	98.8	2.00	1.43	
Toluene*	<0.050	0.050	05/26/2023	ND	2.06	103	2.00	1.84	
Ethylbenzene*	<0.050	0.050	05/26/2023	ND	1.96	98.0	2.00	2.49	
Total Xylenes*	<0.150	0.150	05/26/2023	ND	6.07	101	6.00	3.43	
Total BTEX	<0.300	0.300	05/26/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	05/26/2023	ND	432	108	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/27/2023	ND	199	99.6	200	1.94	
DRO >C10-C28*	<10.0	10.0	05/27/2023	ND	197	98.6	200	0.855	
EXT DRO >C28-C36	<10.0	10.0	05/27/2023	ND					
Surrogate: 1-Chlorooctane	65.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	64.9	% 49.1-14	8						

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Analytical Results For:

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

Received: 05/26/2023 Reported: 06/01/2023

Project Name: HARROUN RANCH #005

Project Number: 03C2012

Project Location: BTA 32.28407,-104.00095

ma/ka

Sampling Date: 05/25/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 08 1' (H232699-08)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/26/2023	ND	2.09	104	2.00	4.52	
Toluene*	<0.050	0.050	05/26/2023	ND	2.15	107	2.00	7.87	
Ethylbenzene*	<0.050	0.050	05/26/2023	ND	2.05	103	2.00	0.310	
Total Xylenes*	<0.150	0.150	05/26/2023	ND	5.99	99.8	6.00	0.159	
Total BTEX	<0.300	0.300	05/26/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	05/26/2023	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/27/2023	ND	199	99.6	200	1.94	
DRO >C10-C28*	<10.0	10.0	05/27/2023	ND	197	98.6	200	0.855	
EXT DRO >C28-C36	<10.0	10.0	05/27/2023	ND					
Surrogate: 1-Chlorooctane	84.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.9	% 49.1-14	8						

Applyzod By: 14

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Analytical Results For:

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

Received: 05/26/2023 Reported: 06/01/2023

Project Name: HARROUN RANCH #005

Project Number: 03C2012

Project Location: BTA 32.28407,-104.00095 Sampling Date: 05/25/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Sample ID: FS 09 1' (H232699-09)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/26/2023	ND	2.09	104	2.00	4.52	
Toluene*	<0.050	0.050	05/26/2023	ND	2.15	107	2.00	7.87	
Ethylbenzene*	<0.050	0.050	05/26/2023	ND	2.05	103	2.00	0.310	
Total Xylenes*	<0.150	0.150	05/26/2023	ND	5.99	99.8	6.00	0.159	
Total BTEX	<0.300	0.300	05/26/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.4	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/26/2023	ND	432	108	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/27/2023	ND	199	99.6	200	1.94	
DRO >C10-C28*	<10.0	10.0	05/27/2023	ND	197	98.6	200	0.855	
EXT DRO >C28-C36	<10.0	10.0	05/27/2023	ND					
Surrogate: 1-Chlorooctane	60.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	60.8	% 49.1-14	8						

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Analytical Results For:

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

Received: 05/26/2023 Reported: 06/01/2023

Project Name: HARROUN RANCH #005

Project Number: 03C2012

Project Location: BTA 32.28407,-104.00095

Sampling Date: 05/25/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 10 1' (H232699-10)

BTEX 8021B	mg,	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/26/2023	ND	2.09	104	2.00	4.52	
Toluene*	<0.050	0.050	05/26/2023	ND	2.15	107	2.00	7.87	
Ethylbenzene*	<0.050	0.050	05/26/2023	ND	2.05	103	2.00	0.310	
Total Xylenes*	<0.150	0.150	05/26/2023	ND	5.99	99.8	6.00	0.159	
Total BTEX	<0.300	0.300	05/26/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.7	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	05/26/2023	ND	432	108	400	3.77	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/27/2023	ND	199	99.6	200	1.94	
DRO >C10-C28*	10.4	10.0	05/27/2023	ND	197	98.6	200	0.855	
EXT DRO >C28-C36	<10.0	10.0	05/27/2023	ND					
Surrogate: 1-Chlorooctane	73.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	74.3	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

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

Received: 05/26/2023 Reported: 06/01/2023

HARROUN RANCH #005

ma/ka

Project Name: HARROUI
Project Number: 03C2012

Project Location: BTA 32.28407,-104.00095

Sampling Date: 05/25/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 11 1' (H232699-11)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/26/2023	ND	2.09	104	2.00	4.52	
Toluene*	<0.050	0.050	05/26/2023	ND	2.15	107	2.00	7.87	
Ethylbenzene*	<0.050	0.050	05/26/2023	ND	2.05	103	2.00	0.310	
Total Xylenes*	<0.150	0.150	05/26/2023	ND	5.99	99.8	6.00	0.159	
Total BTEX	<0.300	0.300	05/26/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	05/26/2023	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/27/2023	ND	199	99.6	200	1.94	
DRO >C10-C28*	<10.0	10.0	05/27/2023	ND	197	98.6	200	0.855	
EXT DRO >C28-C36	<10.0	10.0	05/27/2023	ND					
Surrogate: 1-Chlorooctane	76.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	76.6	% 49.1-14	8						

Applyzod By: 14

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Analytical Results For:

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

Received: 05/26/2023 Reported: 06/01/2023

Project Name: HARROUN RANCH #005

Project Number: 03C2012

Project Location: BTA 32.28407,-104.00095 Sampling Date: 05/25/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Sample ID: FS 12 1' (H232699-12)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/26/2023	ND	2.09	104	2.00	4.52	
Toluene*	<0.050	0.050	05/26/2023	ND	2.15	107	2.00	7.87	
Ethylbenzene*	<0.050	0.050	05/26/2023	ND	2.05	103	2.00	0.310	
Total Xylenes*	<0.150	0.150	05/26/2023	ND	5.99	99.8	6.00	0.159	
Total BTEX	<0.300	0.300	05/26/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 5	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/26/2023	ND	432	108	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/27/2023	ND	199	99.6	200	1.94	
DRO >C10-C28*	<10.0	10.0	05/27/2023	ND	197	98.6	200	0.855	
EXT DRO >C28-C36	<10.0	10.0	05/27/2023	ND					
Surrogate: 1-Chlorooctane	68.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	67.1	% 49.1-14	8						

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Analytical Results For:

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

Received: 05/26/2023 Reported: 06/01/2023

HARROUN RANCH #005

Project Name: Project Number: 03C2012

Project Location: BTA 32.28407,-104.00095 Sampling Date: 05/25/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Sample ID: FS 13 1' (H232699-13)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/26/2023	ND	2.09	104	2.00	4.52	
Toluene*	<0.050	0.050	05/26/2023	ND	2.15	107	2.00	7.87	
Ethylbenzene*	<0.050	0.050	05/26/2023	ND	2.05	103	2.00	0.310	
Total Xylenes*	<0.150	0.150	05/26/2023	ND	5.99	99.8	6.00	0.159	
Total BTEX	<0.300	0.300	05/26/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.1	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/26/2023	ND	400	100	400	7.69	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/27/2023	ND	199	99.6	200	1.94	
DRO >C10-C28*	<10.0	10.0	05/27/2023	ND	197	98.6	200	0.855	
EXT DRO >C28-C36	<10.0	10.0	05/27/2023	ND					
Surrogate: 1-Chlorooctane	73.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	72.7	% 49.1-14	8						

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Analytical Results For:

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

Received: 05/26/2023 Reported: 06/01/2023

Project Name: HARROUN RANCH #005

Project Number: 03C2012

Project Location: BTA 32.28407,-104.00095 Sampling Date: 05/25/2023

Sampling Type: Soil Sampling Condition: Cool & Intact

Sample Received By: Tamara Oldaker

Sample ID: FS 14 1' (H232699-14)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/26/2023	ND	2.09	104	2.00	4.52	
Toluene*	<0.050	0.050	05/26/2023	ND	2.15	107	2.00	7.87	
Ethylbenzene*	<0.050	0.050	05/26/2023	ND	2.05	103	2.00	0.310	
Total Xylenes*	<0.150	0.150	05/26/2023	ND	5.99	99.8	6.00	0.159	
Total BTEX	<0.300	0.300	05/26/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/26/2023	ND	400	100	400	7.69	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/27/2023	ND	199	99.6	200	1.94	
DRO >C10-C28*	<10.0	10.0	05/27/2023	ND	197	98.6	200	0.855	
EXT DRO >C28-C36	<10.0	10.0	05/27/2023	ND					
Surrogate: 1-Chlorooctane	71.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	71.0	% 49.1-14	8						

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Analytical Results For:

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

Received: 05/26/2023 Reported: 06/01/2023

HARROUN RANCH #005

ma/ka

Project Name: HARROUI
Project Number: 03C2012

Project Location: BTA 32.28407,-104.00095

Sampling Date: 05/25/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 15 1' (H232699-15)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/26/2023	ND	2.09	104	2.00	4.52	
Toluene*	<0.050	0.050	05/26/2023	ND	2.15	107	2.00	7.87	
Ethylbenzene*	<0.050	0.050	05/26/2023	ND	2.05	103	2.00	0.310	
Total Xylenes*	<0.150	0.150	05/26/2023	ND	5.99	99.8	6.00	0.159	
Total BTEX	<0.300	0.300	05/26/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	05/26/2023	ND	400	100	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/27/2023	ND	199	99.6	200	1.94	
DRO >C10-C28*	<10.0	10.0	05/27/2023	ND	197	98.6	200	0.855	
EXT DRO >C28-C36	<10.0	10.0	05/27/2023	ND					
Surrogate: 1-Chlorooctane	56.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	54.0	% 49.1-14	8						

Applyzod By: 14

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Analytical Results For:

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

Received: 05/26/2023 Reported: 06/01/2023

Project Name: HARROUN RANCH #005

Project Number: 03C2012

Project Location: BTA 32.28407,-104.00095

ma/ka

Sampling Date: 05/25/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 16 1' (H232699-16)

RTFY 8021R

B1EX 8021B	mg	/ kg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/26/2023	ND	2.09	104	2.00	4.52	
Toluene*	<0.050	0.050	05/26/2023	ND	2.15	107	2.00	7.87	
Ethylbenzene*	<0.050	0.050	05/26/2023	ND	2.05	103	2.00	0.310	
Total Xylenes*	<0.150	0.150	05/26/2023	ND	5.99	99.8	6.00	0.159	
Total BTEX	<0.300	0.300	05/26/2023	ND					
Surrogate: 4-Bromofluorobenzene (F	PID 100	% 71.5-13	34						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	05/26/2023	ND	400	100	400	7.69	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/27/2023	ND	199	99.6	200	1.94	
DRO >C10-C28*	<10.0	10.0	05/27/2023	ND	197	98.6	200	0.855	
EXT DRO >C28-C36	<10.0	10.0	05/27/2023	ND					
Surrogate: 1-Chlorooctane	90.1	% 48.2-13	34						
Surrogate: 1-Chlorooctadecane	88.1	% 49.1-14	18						
C									

Applyzod By: 14

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Analytical Results For:

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

Received: 05/26/2023 Reported: 06/01/2023

Project Name: HARROUN RANCH #005

ma/ka

Project Number: 03C2012

Project Location: BTA 32.28407,-104.00095

Sampling Date: 05/25/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 17 1' (H232699-17)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/26/2023	ND	2.09	104	2.00	4.52	
Toluene*	<0.050	0.050	05/26/2023	ND	2.15	107	2.00	7.87	
Ethylbenzene*	<0.050	0.050	05/26/2023	ND	2.05	103	2.00	0.310	
Total Xylenes*	<0.150	0.150	05/26/2023	ND	5.99	99.8	6.00	0.159	
Total BTEX	<0.300	0.300	05/26/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	05/26/2023	ND	400	100	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/27/2023	ND	199	99.6	200	1.94	
DRO >C10-C28*	<10.0	10.0	05/27/2023	ND	197	98.6	200	0.855	
EXT DRO >C28-C36	<10.0	10.0	05/27/2023	ND					
Surrogate: 1-Chlorooctane	64.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	64.1	% 49.1-14	8						

Applyzod By: 14

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Analytical Results For:

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

Received: 05/26/2023 Reported: 06/01/2023

HARROUN RANCH #005

ma/ka

Project Name: HARROUI
Project Number: 03C2012

Project Location: BTA 32.28407,-104.00095

Sampling Date: 05/25/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 18 1' (H232699-18)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/26/2023	ND	2.09	104	2.00	4.52	
Toluene*	<0.050	0.050	05/26/2023	ND	2.15	107	2.00	7.87	
Ethylbenzene*	<0.050	0.050	05/26/2023	ND	2.05	103	2.00	0.310	
Total Xylenes*	<0.150	0.150	05/26/2023	ND	5.99	99.8	6.00	0.159	
Total BTEX	<0.300	0.300	05/26/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	05/26/2023	ND	400	100	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/27/2023	ND	180	90.2	200	7.56	
DRO >C10-C28*	<10.0	10.0	05/27/2023	ND	184	91.8	200	6.22	
EXT DRO >C28-C36	<10.0	10.0	05/27/2023	ND					
Surrogate: 1-Chlorooctane	79.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.6	% 49.1-14	8						

Applyzod By: 14

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Celey D. Keene



Analytical Results For:

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

Received: 05/26/2023 Reported: 06/01/2023

Project Name: HARROUN RANCH #005

Project Number: 03C2012

Project Location: BTA 32.28407,-104.00095 Sampling Date: 05/25/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Sample ID: FS 19 1' (H232699-19)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/27/2023	ND	2.09	104	2.00	4.52	
Toluene*	<0.050	0.050	05/27/2023	ND	2.15	107	2.00	7.87	
Ethylbenzene*	<0.050	0.050	05/27/2023	ND	2.05	103	2.00	0.310	
Total Xylenes*	<0.150	0.150	05/27/2023	ND	5.99	99.8	6.00	0.159	
Total BTEX	<0.300	0.300	05/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	05/26/2023	ND	400	100	400	7.69	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/27/2023	ND	180	90.2	200	7.56	
DRO >C10-C28*	<10.0	10.0	05/27/2023	ND	184	91.8	200	6.22	
EXT DRO >C28-C36	<10.0	10.0	05/27/2023	ND					
Surrogate: 1-Chlorooctane	82.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.7	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

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

Received: 05/26/2023 Reported: 06/01/2023

Project Name: HARROUN RANCH #005

Project Number: 03C2012

Project Location: BTA 32.28407,-104.00095 Sampling Date: 05/25/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Sample ID: FS 20 1' (H232699-20)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/27/2023	ND	2.09	104	2.00	4.52	
Toluene*	<0.050	0.050	05/27/2023	ND	2.15	107	2.00	7.87	
Ethylbenzene*	<0.050	0.050	05/27/2023	ND	2.05	103	2.00	0.310	
Total Xylenes*	<0.150	0.150	05/27/2023	ND	5.99	99.8	6.00	0.159	
Total BTEX	<0.300	0.300	05/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	05/26/2023	ND	400	100	400	7.69	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/27/2023	ND	180	90.2	200	7.56	
DRO >C10-C28*	<10.0	10.0	05/27/2023	ND	184	91.8	200	6.22	
EXT DRO >C28-C36	<10.0	10.0	05/27/2023	ND					
Surrogate: 1-Chlorooctane	70.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	72.9	% 49.1-14	8						

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Analytical Results For:

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

Received: 05/26/2023 Reported: 06/01/2023

Project Name: HARROUN RANCH #005

Project Number: 03C2012

Project Location: BTA 32.28407,-104.00095 Sampling Date: 05/25/2023

Sampling Type: Sampling Condition: Cool & Intact

Sample Received By: Tamara Oldaker

Soil

Sample ID: FS 21 1' (H232699-21)

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	05/27/2023	ND	2.09	104	2.00	4.52	
Toluene*	<0.050	0.050	05/27/2023	ND	2.15	107	2.00	7.87	
Ethylbenzene*	<0.050	0.050	05/27/2023	ND	2.05	103	2.00	0.310	
Total Xylenes*	<0.150	0.150	05/27/2023	ND	5.99	99.8	6.00	0.159	
Total BTEX	<0.300	0.300	05/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	05/26/2023	ND	400	100	400	7.69	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/27/2023	ND	180	90.2	200	7.56	
DRO >C10-C28*	<10.0	10.0	05/27/2023	ND	184	91.8	200	6.22	
EXT DRO >C28-C36	<10.0	10.0	05/27/2023	ND					
Surrogate: 1-Chlorooctane	53.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	55.9	% 49.1-14	8						

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Analytical Results For:

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

Received: 05/26/2023 Reported: 06/01/2023

Project Name: HARROUN RANCH #005

Project Number: 03C2012

Project Location: BTA 32.28407,-104.00095

ma/ka

Sampling Date: 05/25/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 22 1' (H232699-22)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/27/2023	ND	2.09	104	2.00	4.52	
Toluene*	<0.050	0.050	05/27/2023	ND	2.15	107	2.00	7.87	
Ethylbenzene*	<0.050	0.050	05/27/2023	ND	2.05	103	2.00	0.310	
Total Xylenes*	<0.150	0.150	05/27/2023	ND	5.99	99.8	6.00	0.159	
Total BTEX	<0.300	0.300	05/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	05/26/2023	ND	400	100	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/27/2023	ND	180	90.2	200	7.56	
DRO >C10-C28*	<10.0	10.0	05/27/2023	ND	184	91.8	200	6.22	
EXT DRO >C28-C36	<10.0	10.0	05/27/2023	ND					
Surrogate: 1-Chlorooctane	78.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	82.4	% 49.1-14	8						

Applyzod By: 14

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Analytical Results For:

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

Received: 05/26/2023 Reported: 06/01/2023

Project Name: HARROUN RANCH #005

Project Number: 03C2012

Project Location: BTA 32.28407,-104.00095 Sampling Date: 05/25/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Sample ID: FS 23 1' (H232699-23)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/27/2023	ND	2.09	104	2.00	4.52	
Toluene*	<0.050	0.050	05/27/2023	ND	2.15	107	2.00	7.87	
Ethylbenzene*	<0.050	0.050	05/27/2023	ND	2.05	103	2.00	0.310	
Total Xylenes*	<0.150	0.150	05/27/2023	ND	5.99	99.8	6.00	0.159	
Total BTEX	<0.300	0.300	05/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	05/26/2023	ND	400	100	400	7.69	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/27/2023	ND	180	90.2	200	7.56	
DRO >C10-C28*	<10.0	10.0	05/27/2023	ND	184	91.8	200	6.22	
EXT DRO >C28-C36	<10.0	10.0	05/27/2023	ND					
Surrogate: 1-Chlorooctane	78.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.7	% 49.1-14	8						

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Analytical Results For:

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

Received: 05/26/2023 Reported: 06/01/2023

Project Name: HARROUN RANCH #005

Project Number: 03C2012

Project Location: BTA 32.28407,-104.00095

mg/kg

Sampling Date: 05/25/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 24 1' (H232699-24)

BTEX 8021B

	9,	9	7	7 5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/27/2023	ND	2.09	104	2.00	4.52	
Toluene*	<0.050	0.050	05/27/2023	ND	2.15	107	2.00	7.87	
Ethylbenzene*	<0.050	0.050	05/27/2023	ND	2.05	103	2.00	0.310	
Total Xylenes*	<0.150	0.150	05/27/2023	ND	5.99	99.8	6.00	0.159	
Total BTEX	<0.300	0.300	05/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	05/26/2023	ND	400	100	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/27/2023	ND	180	90.2	200	7.56	
DRO >C10-C28*	<10.0	10.0	05/27/2023	ND	184	91.8	200	6.22	
EXT DRO >C28-C36	<10.0	10.0	05/27/2023	ND					
Surrogate: 1-Chlorooctane	84.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.4	% 49.1-14	8						

Analyzed By: JH

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Analytical Results For:

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

Received: 05/26/2023 Reported: 06/01/2023

Project Name: HARROUN RANCH #005

Project Number: 03C2012

Project Location: BTA 32.28407,-104.00095

ma/ka

Sampling Date: 05/25/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 25 1' (H232699-25)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/27/2023	ND	2.09	104	2.00	4.52	
Toluene*	<0.050	0.050	05/27/2023	ND	2.15	107	2.00	7.87	
Ethylbenzene*	<0.050	0.050	05/27/2023	ND	2.05	103	2.00	0.310	
Total Xylenes*	<0.150	0.150	05/27/2023	ND	5.99	99.8	6.00	0.159	
Total BTEX	<0.300	0.300	05/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	05/26/2023	ND	400	100	400	7.69	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/27/2023	ND	180	90.2	200	7.56	
DRO >C10-C28*	<10.0	10.0	05/27/2023	ND	184	91.8	200	6.22	
EXT DRO >C28-C36	<10.0	10.0	05/27/2023	ND					
Surrogate: 1-Chlorooctane	84.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.3	% 49.1-14	8						

Applyzod By: 14

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Analytical Results For:

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

Received: 05/26/2023 Reported: 06/01/2023

Project Name: HARROUN RANCH #005

Project Number: 03C2012

Project Location: BTA 32.28407,-104.00095

ma/ka

Sampling Date: 05/25/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 26 1' (H232699-26)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/27/2023	ND	2.09	104	2.00	4.52	
Toluene*	<0.050	0.050	05/27/2023	ND	2.15	107	2.00	7.87	
Ethylbenzene*	<0.050	0.050	05/27/2023	ND	2.05	103	2.00	0.310	
Total Xylenes*	<0.150	0.150	05/27/2023	ND	5.99	99.8	6.00	0.159	
Total BTEX	<0.300	0.300	05/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	05/26/2023	ND	400	100	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/27/2023	ND	180	90.2	200	7.56	
DRO >C10-C28*	<10.0	10.0	05/27/2023	ND	184	91.8	200	6.22	
EXT DRO >C28-C36	<10.0	10.0	05/27/2023	ND					
Surrogate: 1-Chlorooctane	82.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.0	% 49.1-14	8						

Applyzod By: 14

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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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Celeg D. Freene

Sampler - UPS - Bus - Other:

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

PG 1 of 3

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

	(010) 000-2020	טוטן טטט־בטבט ו הא (טוטן טטט־בידוט	0			ı	ı	ı	and the last of th		l	l			l					
Company Name:	Ensolum, LLC							B	BILL TO					ANA	ANALYSIS		EQ	REQUEST	٦	
Project Manager:	Hadlie Green				-	P.O. #:	*							77			_			
Address: 601 N.	601 N. Marienfeld St. STE 400	400			0	Company:	par	y:	BTA Oil				_							
City: Midland		State: TX	Zip:		79701	Attn:		Kevi	Kevin Jones								_			
e #:	432-557-8895	Fax #:			_	Address:	889		104 S Pecos St	St							_			
Project #: 03C2012	012	Project Owner:			0	City:		Midland	and											
Project Name: H	Harroun Ranch #005				10	State:		×	Zip: 79701	01			_				_		_	
×	32.28407, -104.00095)95			71	Phone #:	ne #		432-312-2203	3			_				_		_	
Sampler Name:	Kase Parker				-	Fax #:	#)				_		_	
FOR LAB USE ONLY			╝	\neg	MATRIX	P	RES	PRESERV.	/ SAMPLING	LING			500			_	_		_	
Lab I.D.	Sample I.D.	Sample Depth (feet)	S)RAB OR (C)OMP.	CONTAINERS	ROUNDWATER VASTEWATER DIL IL LUDGE	THER : CID/BASE:	20-20-20-20-20-20-20-20-20-20-20-20-20-2	THER:			BTEX	TPH	Chlorides 45							
1	FS01		0		S	$\overline{}$	-	\rightarrow	5/25/23	10:00	\times	×	×	Н		\dashv	H		Н	
2	FS02	_		-	-	_	_		-	10:05	_	-	1	_			_			
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U	FS04			-		_	-	-		10:15		_		_						
3	FS05					_	-	_		10:20	_	_								
6	FS06					_	-			10:25		_								
7.	FS07			-		_	_	-		10:30		_					-			
≈ v	FS08			_		_	_			10:35		_								
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10	FS10	<	-	4	<	_	-	-	V	10:45	V	y	W	_	\vdash	\vdash	H	L	L	
PLEASE NOTE: Liability and D analyses. All claims including t service. In no event shall Cardi	PLEASE NOTE: Lability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatboever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by claims.	lient's exclusive remedy for any ir cause whatsoever shall be do sequental damages, including v	/ claim semed without	aris d walv	ng whether based in contract or ed unless made in writing and re ation, business interruptions, los	tort, st scales s of us	d by C	limite ardina oss of	hall be limited to the amount paid by Cardinal within 30 days after e, or loss of profits incurred by di	by the client for the completion of the ent, its subsidiaria	e applio	able								
Relinquished By:)	Date: / 74/63	Re	cei	Received/By:		- 1	- 1		Verbal Result: ☐ Yes ☐ No Add'I Phone #: All Results are emailed. Please provide Email address:	sult:	☐ Yes emailed.	s 🗆 No	Add	Add'l Phone #: de Email addre	ne #:	"			
1/h	More	Time:		1.8	Manne					BJennings@enso	gs@e	nsolum.com	om h	green	@er	hgreen@ensolum.com	m.cc	Ä		
Relinquished By:	appli	Date: 36-23	Re	Ce	Received By:	1	(Id	El,	A STATE OF THE PROPERTY OF THE	REMARKS:										
Delivered By: (Circle One)		Observed Temp. *C	Y	1	Sample Condition	7	0	HEC	CHECKED BY:	Turnaround Time:	d Tim	ie:	Standard		Ba	cteria (only)	Samp	Bacteria (only) Sample Condition	tion

Le Yes Le Yes

(Initials)

nometer ID #113

Cool Intact

Observed Temp. °C
Corrected Temp. °C

Relinquished By:

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

aboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Py 2 of 3

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

	(010) 000-2020	0/0) 383-2326 FAX (0/0) 383-24/0	0						
Company Name:	Ensolum, LLC			BIL	BILL TO				ANALYSIS REQUEST
Project Manager:				P.O. #:		_			
Address: 601 N	601 N. Marienfeld St. STE 400	400		Company: B	BTA Oil				
City: Midland		State: TX 2	Zip: 79701	Attn: Kevin Jones	ones	_			
Phone #: 432-5	432-557-8895	Fax #:		Address: 104	104 S Pecos St				
Project #: 03C	03C2012	Project Owner:		City: Midland					
ame:	Harroun Ranch #005			State: TX Z	Zip: 79701				
Project Location:	32.28407, -104.00095	195		Phone #: 432	432-312-2203				
Sampler Name:	Kase Parker			Fax #:		_)	
FOR LAB USE ONLY			MATRIX	PRESERV.	SAMPLING	Ш		500	
Lab I.D.	Sample I.D.	Sample Depth	OR (C)OMP. AINERS IDWATER WATER	ASE:		X	4	orides 4	
4232699			# CO GRO WAS SOIL OIL	OTH ACID ICE /	DATE TIME	m B	TF	Cł	
//	FS11	1	C1 S	(5)	5/25/23 10:50	×	×	×	
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14	FS14				11:05	5			
3	FS15				11:10	0			
16	FS16				11:15	5			
77	FS17				11:20	0			
18	FS18				11:25	5			
19	FS19	,			/ 11:30	0			
20	FS20	V	V V		W 11:35	5 W	W	W	
EASE NOTE: Liability and alyses. All claims includin rivice. In no event shall Ca	PLEASE NOTE: Lability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatelease the deemed waited unless made in witing and received by Cardinal within 30 days after completion of the applicable controlled the controlled demands in the controlled by the claims of the controlled demands are controlled to the controlled demands and the controlled demands are controlled to the controlled demands and the controlled demands are controlled to the controlled demands and the controlled demands are controlled to the controlled demands and the controlled demands are controlled to the controlled demands and the controlled demands are controlled to the controlled demands and the controlled demands are controlled to the controlled demands and the controlled demands are controlled to the controlled demands are controlled to the controlled demands and the controlled demands are controlled to the controlled demands and the controlled demands are controlled to the controlled demands and the controlled demands are controlled to the controlled demands and the controlled demands are controlled to the controlled demands and the controlled demands are controlled to the controlled demands and the controlled demands are controlled to the controlled demands and the controlled demands are controlled to the controlled demands and the controlled demands are controlled to the controlled demands and the controlled demands are controlled to the controlled demands and the controlled demands are controlled to the controlled demands and the controlled demands are controlled to the controlled demands and the controlled demands are controlled to the controlled demands and the controlled demands are controlled to the controlled demands and the controlled demands are controlled to the controlled demands and the controlled demands are controlled to	itent's exclusive remedy for any roause whatsoever shall be de vequental damages, including w	claim arising whether based in controlled waived unless made in writing thout limitation, business interruption to a controlled to the state of the	act or fort, shall be limited to the amount p and received by Cardinal within 30 days at is, loss of use, or loss of profits incurred by irm is based upon any of the above stated	ne amount paid by the client for the n 30 days after completion of the sincurred by client, its subsidiarion bove stated research or otherwise	nt for the n of the applic xsidiaries, herwise	cable		
Relinquished By:	ned By: Date; Hu/13 Received/By:	Date: Hult3	Received By:		_	Verbal Result: □ All Results are email	□ Ye emailed	Yes ☐ No ed. Please pro	Yes ☐ No ☐ Add'! Phone #: ed. Please provide Email address:
1	The same of the sa	Time:	Monday		BJe	BJennings@ensolum.com	ensolum		hgreen@ensolum.com

Turnaround Time:

Standard

Bacteria (only) Sample Condition
Cool Intact Observed Temp. '

Yes Yes
No Corrected Temp.

Observed Temp. °C Corrected Temp, °C

Thermometer ID #113
Correction Factor -0.5°C

REMARKS:

Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

pg 3 of 3

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

Sampler - UPS - Bus - Other: Relinquished By Relinquished By PLEASE NOTE: Liability and Damages. Cardin analyses. All claims including those for neglige Sampler Name: Project Location: 32.28407, -104.00095 Project Name: Harroun Ranch #005 Project Manager: Project #: Phone #: Delivered By: (Circle One) Company Name: Address: FOR LAB USE ONLY Lab I.D. Midland 8888 432-557-8895 601 N. Marienfeld St. STE 400 03C2012 Kase Parker FS26 FS24 FS25 **FS23 FS22 FS21** Sample I.D. Hadlie Green Ensolum, LLC Corrected Temp. "C S, Observed Time: Date: /74/23 Sample Depth Fax #: Project Owner: State: (feet) shall be dee X (G)RAB OR (C)OMP Zip: Received By V → # CONTAINERS 79701 GROUNDWATER whether based it contract or fort, shall be limited to the amount paid by the client for the unless made in writing and received by Cardinal within 30 days after completion of the ap Sample Conditio WASTEWATER No. MATRIX SOIL S OIL SLUDGE OTHER State: City: P.O. #: Fax #: Attn: Phone #: Address: Company: ACID/BASE PRESERV (Initials) CHECKEDBY Kevin Jones ICE / COOL Midland X OTHER BILL TO 104 S Pecos St 432-312-2203 Zip: BTA Oil 5/25/23 DATE SAMPLING 79701 Verbal Result:

Yes

No | Add'l Phone #:

All Results are emailed. Please provide Email address: Correction Factor -0.5°C 11:40 Thermometer ID #113 Turnaround Time: REMARKS: Verbal Result: 11:55 12:00 11:50 11:45 TIME BJennings@ensolum.com 12:05 BTEX TPH Standard Chlorides 4500 hgreen@ensolum.com ANALYSIS Bacteria (only) Sample Condition
Cool Intact Observed Temp. °C

Yes Yes
No Corrected Temp. °C REQUEST

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



June 09, 2023

HADLIE GREEN

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: HARROUN RANCH #005

Enclosed are the results of analyses for samples received by the laboratory on 05/30/23 13:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accredited certif.html.

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

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

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

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

Method EPA 552.2 Total Haloacetic Acids (HAA-5)

Celey D. Keene

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

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705 Project: HARROUN RANCH #005

Project Number: 03C2012034 Project Manager: HADLIE GREEN

Fax To:

Reported: 09-Jun-23 16:31

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS10A 3.0'	H232725-01	Soil	26-May-23 09:35	30-May-23 13:30

06/09/23 - Client changed the sample ID (see COC). This is the revised report and will replace the one sent on 06/02/23.

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine



Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705 Project: HARROUN RANCH #005

Project Number: 03C2012034

Project Manager: HADLIE GREEN

Fax To:

Reported: 09-Jun-23 16:31

SS10A 3.0' H232725-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Inorganic Compounds										
Chloride	240		16.0	mg/kg	4	3053010	AC	31-May-23	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	3053012	JH/	30-May-23	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	3053012	JH/	30-May-23	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	3053012	JH/	30-May-23	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	3053012	JH/	30-May-23	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	3053012	JH/	30-May-23	8021B	
Surrogate: 4-Bromofluorobenzene (PII	0)		111 %	71.5	-134	3053012	JH/	30-May-23	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	3053014	MS	30-May-23	8015B	
DRO >C10-C28*	16.8		10.0	mg/kg	1	3053014	MS	30-May-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3053014	MS	30-May-23	8015B	
Surrogate: 1-Chlorooctane			113 %	48.2	-134	3053014	MS	30-May-23	8015B	
Surrogate: 1-Chlorooctadecane			111 %	49.1	-148	3053014	MS	30-May-23	8015B	

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Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705 Project: HARROUN RANCH #005

Project Number: 03C2012034

Project Manager: HADLIE GREEN

Fax To:

Reported: 09-Jun-23 16:31

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3053010 - 1:4 DI Water										
Blank (3053010-BLK1)				Prepared &	Analyzed:	30-May-23	i			
Chloride	ND	16.0	mg/kg							
LCS (3053010-BS1)				Prepared &	Analyzed:	30-May-23	i			
Chloride	432	16.0	mg/kg	400		108	80-120			
LCS Dup (3053010-BSD1)				Prepared &	z Analyzed:	30-May-23	ı			
Chloride	432	16.0	mg/kg	400		108	80-120	0.00	20	

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Celey D. Keens



%REC

Analytical Results For:

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

Surrogate: 4-Bromofluorobenzene (PID)

Project: HARROUN RANCH #005

Project Number: 03C2012034

Project Manager: HADLIE GREEN

Spike

Source

104

71.5-134

Fax To:

Reported: 09-Jun-23 16:31

RPD

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Reporting

0.0521

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 3053012 - Volatiles										
Blank (3053012-BLK1)				Prepared &	z Analyzed:	30-May-2	3			
Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0542		mg/kg	0.0500		108	71.5-134			
LCS (3053012-BS1)				Prepared &	z Analyzed:	30-May-2	3			
Benzene	2.14	0.050	mg/kg	2.00		107	81.4-118			
Toluene	2.23	0.050	mg/kg	2.00		112	88.7-121			
Ethylbenzene	2.13	0.050	mg/kg	2.00		106	86.1-120			
m,p-Xylene	4.45	0.100	mg/kg	4.00		111	88.2-124			
o-Xylene	2.13	0.050	mg/kg	2.00		106	84.9-118			
Total Xylenes	6.58	0.150	mg/kg	6.00		110	87.3-122			
Surrogate: 4-Bromofluorobenzene (PID)	0.0529		mg/kg	0.0500		106	71.5-134			
LCS Dup (3053012-BSD1)				Prepared &	. Analyzed:	30-May-2	3			
Benzene	1.82	0.050	mg/kg	2.00		91.1	81.4-118	15.9	15.8	QR-0
Toluene	1.87	0.050	mg/kg	2.00		93.6	88.7-121	17.6	15.9	QR-0
Ethylbenzene	1.83	0.050	mg/kg	2.00		91.6	86.1-120	14.9	16	
m,p-Xylene	3.86	0.100	mg/kg	4.00		96.6	88.2-124	14.2	16.2	
o-Xylene	1.85	0.050	mg/kg	2.00		92.5	84.9-118	14.0	16.7	
Total Xylenes	5.71	0.150	mg/kg	6.00		95.2	87.3-122	14.1	16.3	

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mg/kg

0.0500

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Celey D. Keens



%REC

Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705 Project: HARROUN RANCH #005

Spike

Source

Project Number: 03C2012034

Project Manager: HADLIE GREEN

Fax To:

Reported: 09-Jun-23 16:31

RPD

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Reporting

		reporting		opine	Source		, or the		141 25	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 3053014 - General Prep - Organics										
Blank (3053014-BLK1)				Prepared &	& Analyzed:	30-May-2	3			
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	38.0		mg/kg	49.6		76.7	48.2-134			
Surrogate: 1-Chlorooctadecane	39.9		mg/kg	50.0		79.8	49.1-148			
LCS (3053014-BS1)				Prepared &	& Analyzed:	30-May-22	3			
GRO C6-C10	186	10.0	mg/kg	200		92.8	78.5-124			
DRO >C10-C28	164	10.0	mg/kg	200		81.8	72.5-126			
Total TPH C6-C28	349	10.0	mg/kg	400		87.3	77.6-123			
Surrogate: 1-Chlorooctane	41.2		mg/kg	49.6		83.1	48.2-134			
Surrogate: 1-Chlorooctadecane	44.9		mg/kg	50.0		89.7	49.1-148			
LCS Dup (3053014-BSD1)				Prepared &	& Analyzed:	30-May-2	3			
GRO C6-C10	177	10.0	mg/kg	200		88.3	78.5-124	5.05	17.7	
DRO >C10-C28	157	10.0	mg/kg	200		78.4	72.5-126	4.33	21	
Total TPH C6-C28	333	10.0	mg/kg	400		83.3	77.6-123	4.71	18.5	
Surrogate: 1-Chlorooctane	40.4		mg/kg	49.6		81.5	48.2-134			
Surrogate: 1-Chlorooctadecane	44.5		mg/kg	50.0		88.9	49.1-148			

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Celey D. Keene



Notes and Definitions

QR-04 The RPD for the BS/BSD was outside of historical limits.

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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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 7 of 8

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



	(5/5) 393-2326 F.	FAX (5/5) 393-24/6	24/0				
Company Name: Ensolum, LLC	Ensolum, LLC			BILL TO	TO SHEET SHE	ANALYSIS KEWUESI	
Project Manager: Hadlie Green	: Hadlie Green			P.O. #:			_
Address: 601 N	Address: 601 N Marienfeld Street, Suite 400	ite 400		Company: BTA Oil			
City: Midland		State: TX	Zip: 79701	Attn: Kevin Jones		_	
Phone #: 432-557-8895	7-8895	Fax #:		Address: 104 S Pecos St	St		
Project #: 03C2012034	12034	Project Owner:	97.	City: Midland			
Project Name: H	Project Name: Harroun Ranch #005			State: TX Zip: 79701			
Project Location	Project Location: 32.28407,-104.00095	Ö		Phone #: 432-312-2203			
Sampler Name:	Sampler Name: Peter Van Patten			Fax #:			
FOR LAB USE ONLY				PRESERV. SAMPLING			
Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OI # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	TPH BTEX Chiorid		
HOOLING	RICKA	3.0.	- #	V 526-23	935 X X X		
PLEASE NOTE: Liability and Dami analyses. All claims including those	d Damages. Cardinal's liability and o ig those for negligence and any othe	dent's exclusive remedy for cause whatsever shall t	r any claim arising whether based in co se deemed waived unless made in writi	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remody for any claim arrang whether based in contract or fort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed valved upless made in writing and received by Cardinal within 30 days after completion of the applicable	d by the client for the completion of the applicable		
affliates or successors arising Relinquished By:	ors arising out of or related to the performan	ce of services hereunder b	of services hereunder by Cardinal, regardless of whether such Date: Received By:	affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Relinquished By: Verbal Results Verbal	ilt: 🗆 Yes	Q'No Add'I Phone #:	
as his	The same of the sa	11me: 1549	\$ 50 X	reigneed	hgreene ensiled. Please provide Er	Please provide Email address:	
Relinquished By:	n	Date:	Received By:		sed c	3,42 SPIDC	hauses To
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June 09, 2023

HADLIE GREEN

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: HARROUN RANCH #005

Enclosed are the results of analyses for samples received by the laboratory on 05/30/23 13:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

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

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

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

Method SM 9223-B Total Coliform and E. coli (Colilert MMO-MUG)

Method EPA 524.2 Regulated VOCs and Total Trihalomethanes (TTHM)

Method EPA 552.2 Total Haloacetic Acids (HAA-5)

Celey D. Keene

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

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705 Project: HARROUN RANCH #005

Project Number: 03C2012034 Project Manager: HADLIE GREEN

Fax To:

Reported: 09-Jun-23 16:39

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS08B 4.0'	H232727-01	Soil	26-May-23 09:20	30-May-23 13:30

06/09/23 - Client changed the sample ID (see COC). This is the revised report and will replace the one sent on 06/02/23.

Cardinal Laboratories *=Accredited Analyte

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

Celeg D. Keene



Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705 Project: HARROUN RANCH #005

Project Number: 03C2012034

Project Manager: HADLIE GREEN

Fax To:

Reported: 09-Jun-23 16:39

SS08B 4.0' H232727-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	592		16.0	mg/kg	4	3053010	AC	31-May-23	4500-Cl-B	
Volatile Organic Compounds I	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	3053012	JH/	30-May-23	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	3053012	JH/	30-May-23	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	3053012	JH/	30-May-23	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	3053012	JH/	30-May-23	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	3053012	JH/	30-May-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID))		109 %	71.5	-134	3053012	JH/	30-May-23	8021B	
Petroleum Hydrocarbons by C	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	3053014	MS	30-May-23	8015B	
DRO >C10-C28*	11.9		10.0	mg/kg	1	3053014	MS	30-May-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3053014	MS	30-May-23	8015B	
Surrogate: 1-Chlorooctane			120 %	48.2	-134	3053014	MS	30-May-23	8015B	
Surrogate: 1-Chlorooctadecane			121 %	49.1-	-148	3053014	MS	30-May-23	8015B	

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Celey D. Keine



Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705 Project: HARROUN RANCH #005

Project Number: 03C2012034

Project Manager: HADLIE GREEN

Fax To:

Reported: 09-Jun-23 16:39

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Analyte	Result	LIIIII	Oillis	Level	Kesuit	/0KEC	LIIIIIIS	KrD	LIIIII	notes
Batch 3053010 - 1:4 DI Water										
Blank (3053010-BLK1)				Prepared &	Analyzed:	30-May-23				
Chloride	ND	16.0	mg/kg							
LCS (3053010-BS1)				Prepared &	Analyzed:	30-May-23				
Chloride	432	16.0	mg/kg	400		108	80-120			
LCS Dup (3053010-BSD1)				Prepared &	Analyzed:	30-May-23				
Chloride	432	16.0	mg/kg	400		108	80-120	0.00	20	

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Celey D. Keene



%REC

Limits

Analytical Results For:

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

Analyte

Project: HARROUN RANCH #005

Project Number: 03C2012034

Spike

Level

Source

Result

%REC

09-Jun-23 16:39

RPD

Reported:

RPD

Limit

Notes

Project Manager: HADLIE GREEN

Fax To:

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Units

Reporting

Limit

Result

Blank (3053012-BLK1)				Prepared & Analy	yzed: 30-May-2	3
Benzene	ND	0.050	mg/kg			
Toluene	ND	0.050	mg/kg			
Ethylbenzene	ND	0.050	mg/kg			
Total Xylenes	ND	0.150	mg/kg			
Total BTEX	ND	0.300	mg/kg			
Surrogate: 4-Bromofluorobenzene (PID)	0.0542		mg/kg	0.0500	108	71.5-134
LCS (3053012-BS1)				Prepared & Analy	yzed: 30-May-2	3
Benzene	2.14	0.050	mg/kg	2.00	107	81.4-118
Toluene	2.23	0.050	mg/kg	2.00	112	88.7-121
Ethylbenzene	2.13	0.050	mg/kg	2.00	106	86.1-120
m,p-Xylene	4.45	0.100	mg/kg	4.00	111	88.2-124
o-Xylene	2.13	0.050	mg/kg	2.00	106	84.9-118

Surrogate: 4-Bromofluorobenzene (PID)	0.0529		mg/kg	0.0500	106	71.5-134			
LCS Dup (3053012-BSD1)				Prepared & Anal	yzed: 30-May-2	3			
Benzene	1.82	0.050	mg/kg	2.00	91.1	81.4-118	15.9	15.8	QR-04
Toluene	1.87	0.050	mg/kg	2.00	93.6	88.7-121	17.6	15.9	QR-04
Ethylbenzene	1.83	0.050	mg/kg	2.00	91.6	86.1-120	14.9	16	
m,p-Xylene	3.86	0.100	mg/kg	4.00	96.6	88.2-124	14.2	16.2	
o-Xylene	1.85	0.050	mg/kg	2.00	92.5	84.9-118	14.0	16.7	
Total Xylenes	5.71	0.150	mg/kg	6.00	95.2	87.3-122	14.1	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0521		mg/kg	0.0500	104	71.5-134			

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Celey D. Keine



%REC

Analytical Results For:

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

Surrogate: 1-Chlorooctadecane

Project: HARROUN RANCH #005

Project Number: 03C2012034

Project Manager: HADLIE GREEN

Spike

50.0

88.9

49.1-148

Source

Fax To:

Reported: 09-Jun-23 16:39

RPD

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Reporting

44.5

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 3053014 - General Prep - Organics										
Blank (3053014-BLK1)				Prepared &	Analyzed:	30-May-2	3			
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	38.0		mg/kg	49.6		76.7	48.2-134			
Surrogate: 1-Chlorooctadecane	39.9		mg/kg	50.0		79.8	49.1-148			
LCS (3053014-BS1)				Prepared &	Analyzed:	30-May-2	3			
GRO C6-C10	186	10.0	mg/kg	200		92.8	78.5-124			
DRO >C10-C28	164	10.0	mg/kg	200		81.8	72.5-126			
Total TPH C6-C28	349	10.0	mg/kg	400		87.3	77.6-123			
Surrogate: 1-Chlorooctane	41.2		mg/kg	49.6		83.1	48.2-134			
Surrogate: 1-Chlorooctadecane	44.9		mg/kg	50.0		89.7	49.1-148			
LCS Dup (3053014-BSD1)				Prepared &	Analyzed:	30-May-2	3			
GRO C6-C10	177	10.0	mg/kg	200		88.3	78.5-124	5.05	17.7	
DRO >C10-C28	157	10.0	mg/kg	200		78.4	72.5-126	4.33	21	
Total TPH C6-C28	333	10.0	mg/kg	400		83.3	77.6-123	4.71	18.5	
Surrogate: 1-Chlorooctane	40.4		mg/kg	49.6		81.5	48.2-134			

mg/kg

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Celeg D. Keine



Notes and Definitions

QR-04 The RPD for the BS/BSD was outside of historical limits.

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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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

Page 7 of 8

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

ANALYSIS REQUES! Company: BTA Oil Alth: Keyin Jones Address: 104 S Peccos St City: Midland State: TX Zip: 79701 Phone #: 432:312:2203 Fax #: PRESERVI SAMPLING PRESERVI SAMPLIN	O-manus Mamas	7						111111111111111111111111111111111111111	-	_
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Yes Who Add'l Phone #: Yes Who Add'l Phone #: Ant 34: Standard Bacteria (only) Sample Condition % Standard Cool Intact Observed Temp. °C Standard Observed Temp. °C	Address: 601 N	Marienfeld Street, S	uite 400		Company: BTA Oil					_
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Tes Wo Add'l Phone #: Wes Provide Email address: Who Add'l Phone #: Siled. Please provide Email address: Who Add'l Phone #: Standard Bacteria (only) Sample Condition Cool Indact Cool Indact Observed Temp. °C Standard Proved Temp. °C Standard Proved Temp. °C Standard Proved Temp. °C	Phone #: 432-55	7-8895	Fax#:		Address: 104 S Pecos	St				
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X X X X X X X X X X X X X X X X X X X	Project Location	: 32.28407,-104.000	95		Phone #: 432-312-2203					
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Time: Date: Received By: Received By: Received By: Remarks: Temp. 'CAD Sample Condition CHECKED BY: Cool Intact Cool Inta	Relinquished By:	out of or related to the performan	ce of services hereunder by C Date:	ardinal, regardless of whether such daim Received By:	is based upon any of the above stated re-	7	No No	Add'l Phone #:		┙
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Corrected Temp. C. 4 Sample Condition CHECKED BY: Turnaround Time: Standard & Bacteria (only) Sample Condition CHECKED BY: Turnaround Time: Standard & Bacteria (only) Sample Condition CHECKED BY: Turnaround Time: Standard & Bacteria (only) Sample Condition CHECKED BY: Turnaround Time: Standard & Bacteria (only) Sample Condition CHECKED BY: Turnaround Time: Standard & Bacteria (only) Sample Condition CHECKED BY: Turnaround Time: Standard & Bacteria (only) Sample Condition CHECKED BY: Turnaround Time: Standard & Bacteria (only) Sample Condition CHECKED BY: Turnaround Time: Standard & Bacteria (only) Sample Condition CHECKED BY: Turnaround Time: Standard & Bacteria (only) Sample Condition CHECKED BY: Turnaround Time: Standard & Bacteria (only) Sample Condition CHECKED BY: Turnaround Time: Standard & Bacteria (only) Sample Condition CHECKED BY: Turnaround Time: Standard & Bacteria (only) Sample Condition CHECKED BY: Turnaround Time: Standard & Bacteria (only) Sample Condition CHECKED BY: Turnaround Time: Standard & Bacteria (only) Sample Condition CHECKED BY: Turnaround Time: Standard & Bacteria (only) Sample Condition CHECKED BY: Turnaround Time: Standard & Bacteria (only) Sample Condition CHECKED BY: Turnaround Time: Standard & Bacteria (only) Sample Condition CHECKED BY: Turnaround Time: Standard & Bacteria (only) Sample Condition CHECKED BY: Turnaround Time: Standard & Bacteria (only) Sample Condition CHECKED BY: Turnaround Time: Standard & Bacteria (only) Sample Condition CHECKED BY: Turnaround Time: Standard & Bacteria (only) Sample Condition CHECKED BY: Turnaround Time: Standard & Bacteria (only) Sample Condition CHECKED BY: Turnaround Time: Standard & Bacteria (only) Sample Condition CHECKED BY: Turnaround Time: Standard & Bacteria (only) Sample Condition CHECKED BY: Turnaround Time: Standard & Bacteria (only) Sample Condition CHECKED BY: Turnaround Time: Standard & Bacteria (only) Sample Checked BY: Turnaround Time: Standard & Bacteria (only) Sample Checked BY: Turnaround Time: Standard & Bacteria (only) S	Relinquished By		Date: Time:	Received By:	(0:	HANK 3	0	Todianses	10
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	Sampler - UPS - E		orrected Temp. %	No No	8	Thermometer ID #1		□ Yes □ Yes	Corrected Temp, °C)



June 09, 2023

HADLIE GREEN

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: HARROUN RANCH #005

Enclosed are the results of analyses for samples received by the laboratory on 05/30/23 13:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

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

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

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

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

Method EPA 552.2 Total Haloacetic Acids (HAA-5)

Celey D. Keene

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

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705 Project: HARROUN RANCH #005

Project Number: 03C2012034 Project Manager: HADLIE GREEN

Fax To:

Reported: 09-Jun-23 16:43

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS08A 2.0'	H232728-01	Soil	26-May-23 09:10	30-May-23 13:30

06/09/23 - Client changed the sample ID (see COC). This is the revised report and will replace the one sent on 06/02/23.

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Keine



Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705 Project: HARROUN RANCH #005

Project Number: 03C2012034

Project Manager: HADLIE GREEN

Fax To:

Reported: 09-Jun-23 16:43

SS08A 2.0' H232728-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	96.0		16.0	mg/kg	4	3053010	AC	31-May-23	4500-Cl-B	
Volatile Organic Compound	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	3053012	JH/	30-May-23	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	3053012	JH/	30-May-23	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	3053012	JH/	30-May-23	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	3053012	JH/	30-May-23	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	3053012	JH/	30-May-23	8021B	
Surrogate: 4-Bromofluorobenzene (P.	ID)		109 %	71.5	-134	3053012	JH/	30-May-23	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0	•	10.0	mg/kg	1	3053014	MS	30-May-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3053014	MS	30-May-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3053014	MS	30-May-23	8015B	
Surrogate: 1-Chlorooctane			121 %	48.2	-134	3053014	MS	30-May-23	8015B	
Surrogate: 1-Chlorooctadecane			120 %	49.1	-148	3053014	MS	30-May-23	8015B	

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705 Project: HARROUN RANCH #005

Project Number: 03C2012034

Project Manager: HADLIE GREEN

Fax To:

Reported: 09-Jun-23 16:43

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3053010 - 1:4 DI Water										
Blank (3053010-BLK1)				Prepared &	Analyzed:	30-May-23	i			
Chloride	ND	16.0	mg/kg							
LCS (3053010-BS1)				Prepared &	Analyzed:	30-May-23	i			
Chloride	432	16.0	mg/kg	400		108	80-120			
LCS Dup (3053010-BSD1)				Prepared &	z Analyzed:	30-May-23	i			
Chloride	432	16.0	mg/kg	400		108	80-120	0.00	20	

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Celey D. Keene



%REC

71.5-134

104

Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705 Project: HARROUN RANCH #005

Project Number: 03C2012034

Spike

Source

Project Manager: HADLIE GREEN

Fax To:

Reported: 09-Jun-23 16:43

RPD

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Reporting

0.0521

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 3053012 - Volatiles										
Blank (3053012-BLK1)				Prepared &	Analyzed:	30-May-2	3			
Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0542		mg/kg	0.0500		108	71.5-134			
LCS (3053012-BS1)				Prepared &	Analyzed:	30-May-2	3			
Benzene	2.14	0.050	mg/kg	2.00		107	81.4-118			
Toluene	2.23	0.050	mg/kg	2.00		112	88.7-121			
Ethylbenzene	2.13	0.050	mg/kg	2.00		106	86.1-120			
m,p-Xylene	4.45	0.100	mg/kg	4.00		111	88.2-124			
o-Xylene	2.13	0.050	mg/kg	2.00		106	84.9-118			
Total Xylenes	6.58	0.150	mg/kg	6.00		110	87.3-122			
Surrogate: 4-Bromofluorobenzene (PID)	0.0529		mg/kg	0.0500		106	71.5-134			
LCS Dup (3053012-BSD1)				Prepared &	: Analyzed:	30-May-2	3			
Benzene	1.82	0.050	mg/kg	2.00		91.1	81.4-118	15.9	15.8	QR-0
Toluene	1.87	0.050	mg/kg	2.00		93.6	88.7-121	17.6	15.9	QR-0
Ethylbenzene	1.83	0.050	mg/kg	2.00		91.6	86.1-120	14.9	16	
m,p-Xylene	3.86	0.100	mg/kg	4.00		96.6	88.2-124	14.2	16.2	
o-Xylene	1.85	0.050	mg/kg	2.00		92.5	84.9-118	14.0	16.7	
Total Xylenes	5.71	0.150	mg/kg	6.00		95.2	87.3-122	14.1	16.3	

Cardinal Laboratories *=Accredited Analyte

mg/kg

0.0500

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Celey D. Keene

Surrogate: 4-Bromofluorobenzene (PID)

Celey D. Keene, Lab Director/Quality Manager



%REC

Analytical Results For:

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

Surrogate: 1-Chlorooctadecane

Project: HARROUN RANCH #005

Project Number: 03C2012034

Spike

50.0

88.9

49.1-148

Project Manager: HADLIE GREEN

Source

Fax To:

Reported: 09-Jun-23 16:43

RPD

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Reporting

44.5

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 3053014 - General Prep - Organics										
Blank (3053014-BLK1)				Prepared &	& Analyzed:	30-May-2	3			
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	38.0		mg/kg	49.6		76.7	48.2-134			
Surrogate: 1-Chlorooctadecane	39.9		mg/kg	50.0		79.8	49.1-148			
LCS (3053014-BS1)				Prepared &	& Analyzed:	30-May-2	3			
GRO C6-C10	186	10.0	mg/kg	200		92.8	78.5-124			
DRO >C10-C28	164	10.0	mg/kg	200		81.8	72.5-126			
Total TPH C6-C28	349	10.0	mg/kg	400		87.3	77.6-123			
Surrogate: 1-Chlorooctane	41.2		mg/kg	49.6		83.1	48.2-134			
Surrogate: 1-Chlorooctadecane	44.9		mg/kg	50.0		89.7	49.1-148			
LCS Dup (3053014-BSD1)				Prepared &	& Analyzed:	30-May-2	3			
GRO C6-C10	177	10.0	mg/kg	200		88.3	78.5-124	5.05	17.7	
DRO >C10-C28	157	10.0	mg/kg	200		78.4	72.5-126	4.33	21	
Total TPH C6-C28	333	10.0	mg/kg	400		83.3	77.6-123	4.71	18.5	
Surrogate: 1-Chlorooctane	40.4		mg/kg	49.6		81.5	48.2-134			

mg/kg

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Celey D. Keine



Notes and Definitions

QR-04 The RPD for the BS/BSD was outside of historical limits.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

Insufficient time to reach temperature.

** Samples not received at proper temperature of 6°C or below.

- 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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Celey D. Keene

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

Observed Temp.

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



(575) 393-232	(575) 393-2326 FAX (575) 393-2476			
Company Name: Ensolum, LLC		BILL TO	ANALYSIS	REQUEST
Project Manager: Hadlie Green		P.O. #:		
Address: 601 N Marienfeld Street, Suite 400	t, Suite 400	Company: BTA Oil		
City: Midland	State: TX Zip: 79701	Attn: Kevin Jones		
Phone #: 432-557-8895	Fax #:	Address: 104 S Pecos St		
Project #: 03C2012034	Project Owner:	City: Midland		
Project Name: Harroun Ranch #005	05	State: TX Zip: 79701		
Project Location: 32.28407,-104.00095	00095	Phone #: 432-312-2203		
Sampler Name: Peter Van Patten		Fax #:		
FOR LAB USE ONLY	Depth (C)OMP.	PRE	t x rides	
SS SELECTION *	(G)RAB (G)# CONTAGROUND WASTEV SOIL	OTHER: ACID/BA ICE / CO OTHER: DATE	THE BT	
MOSBA	20' CII	18 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	N X X	
PLEASE NOTE: Liability and Damages, Cardinal's liabil analyses. All claims including those for negligence and service. In no event shall Cardinal be liable for incidental	PLEASE NOTE: Lability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. At claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries,	ntract or tort, shall be limited to the amount paid ig and received by Cardinal within 30 days after o tons, loss of use, or loss of profits incurred by cit	y the client for the ompletion of the applicable nt, its subsidiaties,	
affiliates or successors arising out of or related to the perfor Relinquished By:	Time: Ti	celved By:	ilt: Yes	ess:
Relinquished By:		C	TOMP WITH STATE	To July

CHECKED BY:

Turnaround Time: Thermometer ID #113 Correction Factor -0.5°C

Standard

Bacteria (only) Sample Condition
Cool Intact Observed Temp. °C
| Yes | Yes
| No | No Corrected Temp. °C



June 09, 2023

HADLIE GREEN

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: HARROUN RANCH #005

Enclosed are the results of analyses for samples received by the laboratory on 05/30/23 13:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

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

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

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

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

Method EPA 552.2 Total Haloacetic Acids (HAA-5)

Celey D. Keene

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

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705 Project: HARROUN RANCH #005

Project Number: 03C2012034 Project Manager: HADLIE GREEN

Fax To:

Reported: 09-Jun-23 16:46

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS07A 1.0'	H232729-01	Soil	26-May-23 09:00	30-May-23 13:30

06/09/23 - Client changed the sample ID (see COC). This is the revised report and will replace the one sent on 06/02/23.

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Celey D. Keine



Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705 Project: HARROUN RANCH #005

Project Number: 03C2012034

Project Manager: HADLIE GREEN

Fax To:

Reported: 09-Jun-23 16:46

SS07A 1.0' H232729-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	64.0		16.0	mg/kg	4	3053010	AC	31-May-23	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	3053012	JH/	30-May-23	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	3053012	JH/	30-May-23	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	3053012	JH/	30-May-23	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	3053012	JH/	30-May-23	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	3053012	JH/	30-May-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID))		108 %	71.5	-134	3053012	JH/	30-May-23	8021B	
Petroleum Hydrocarbons by C	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	3053014	MS	30-May-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3053014	MS	30-May-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3053014	MS	30-May-23	8015B	
Surrogate: 1-Chlorooctane			121 %	48.2	-134	3053014	MS	30-May-23	8015B	
Surrogate: 1-Chlorooctadecane			120 %	49.1	-148	3053014	MS	30-May-23	8015B	

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Celey D. Keene



Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705 Project: HARROUN RANCH #005

Project Number: 03C2012034

Project Manager: HADLIE GREEN

Fax To:

Reported: 09-Jun-23 16:46

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3053010 - 1:4 DI Water										
Blank (3053010-BLK1)				Prepared &	Analyzed:	30-May-23	i			
Chloride	ND	16.0	mg/kg							
LCS (3053010-BS1)				Prepared &	z Analyzed:	30-May-23	;			
Chloride	432	16.0	mg/kg	400		108	80-120			
LCS Dup (3053010-BSD1)				Prepared &	z Analyzed:	30-May-23	i			
Chloride	432	16.0	mg/kg	400		108	80-120	0.00	20	

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Celey D. Keene



%REC

Limits

RPD

Analytical Results For:

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

Analyte

o-Xylene

Total Xylenes

Surrogate: 4-Bromofluorobenzene (PID)

Project: HARROUN RANCH #005

Project Number: 03C2012034

Project Manager: HADLIE GREEN

Spike

Level

Source

Result

%REC

92.5

104

84.9-118

87.3-122

71.5-134

14.0

16.7

16.3

Fax To:

Reported: 09-Jun-23 16:46

RPD

Limit

Notes

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Units

Reporting

Limit

Result

1.85

5.71

0.0521

0.050

0.150

mg/kg

mg/kg

mg/kg

2.00

6.00

0.0500

Maryte	Result	Limit	Omts	Level	Result	70ICLC	Liiiito	KI D	Limit	110103
Batch 3053012 - Volatiles										
Blank (3053012-BLK1)				Prepared &	Analyzed:	30-May-2	3			
Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0542		mg/kg	0.0500		108	71.5-134			
LCS (3053012-BS1)				Prepared &	Analyzed:	30-May-2	3			
Benzene	2.14	0.050	mg/kg	2.00		107	81.4-118			
Toluene	2.23	0.050	mg/kg	2.00		112	88.7-121			
Ethylbenzene	2.13	0.050	mg/kg	2.00		106	86.1-120			
m,p-Xylene	4.45	0.100	mg/kg	4.00		111	88.2-124			
o-Xylene	2.13	0.050	mg/kg	2.00		106	84.9-118			
Total Xylenes	6.58	0.150	mg/kg	6.00		110	87.3-122			
Surrogate: 4-Bromofluorobenzene (PID)	0.0529		mg/kg	0.0500		106	71.5-134			
LCS Dup (3053012-BSD1)				Prepared &	Analyzed:	30-May-2	3			
Benzene	1.82	0.050	mg/kg	2.00		91.1	81.4-118	15.9	15.8	QR-04
Toluene	1.87	0.050	mg/kg	2.00		93.6	88.7-121	17.6	15.9	QR-0
Ethylbenzene	1.83	0.050	mg/kg	2.00		91.6	86.1-120	14.9	16	
m,p-Xylene	3.86	0.100	mg/kg	4.00		96.6	88.2-124	14.2	16.2	

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



%REC

Analytical Results For:

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

Surrogate: 1-Chlorooctadecane

Project: HARROUN RANCH #005

Spike

50.0

88.9

49.1-148

Source

Project Number: 03C2012034

Project Manager: HADLIE GREEN

Fax To:

Reported: 09-Jun-23 16:46

RPD

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Reporting

44.5

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 3053014 - General Prep - Organics										
Blank (3053014-BLK1)				Prepared &	& Analyzed:	30-May-2	3			
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	38.0		mg/kg	49.6		76.7	48.2-134			
Surrogate: 1-Chlorooctadecane	39.9		mg/kg	50.0		79.8	49.1-148			
LCS (3053014-BS1)				Prepared &	& Analyzed:	30-May-2	3			
GRO C6-C10	186	10.0	mg/kg	200		92.8	78.5-124			
DRO >C10-C28	164	10.0	mg/kg	200		81.8	72.5-126			
Total TPH C6-C28	349	10.0	mg/kg	400		87.3	77.6-123			
Surrogate: 1-Chlorooctane	41.2		mg/kg	49.6		83.1	48.2-134			
Surrogate: 1-Chlorooctadecane	44.9		mg/kg	50.0		89.7	49.1-148			
LCS Dup (3053014-BSD1)				Prepared &	& Analyzed:	30-May-2	3			
GRO C6-C10	177	10.0	mg/kg	200		88.3	78.5-124	5.05	17.7	
DRO >C10-C28	157	10.0	mg/kg	200		78.4	72.5-126	4.33	21	
Total TPH C6-C28	333	10.0	mg/kg	400		83.3	77.6-123	4.71	18.5	
Surrogate: 1-Chlorooctane	40.4		mg/kg	49.6		81.5	48.2-134			

mg/kg

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

QR-04 The RPD for the BS/BSD was outside of historical limits.

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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Celey D. Keene

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Laboratories

101 East Marland, Hobbs, NM, 8824

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

Project Manager Halling LLC		BILL TO	
- Open Mariager: Hadile Green		P.O.#:	ANALTSIS REQUEST
Address: 601 N Marienfeld Street, Suite 400	Suite 400	Company: BTA Oil	
City: Midland	State: TX Zip: 79701	Attn: Kevin Jones	
Phone #: 432-557-8895	Fax#:	Address: 104 S Pecos St	
Project #: 03C2012034	Project Owner:	City: Midland	
Project Name: Harroun Ranch #005		State: TX Zin. 70704	
Project Location: 32.28407,-104.00095	095	Dhone # 400 240 0000	
Sampler Name: Peter Van Patten		rnone #: 432-312-2203	
FOR LAB USE ONLY		Fax #:	
	C)OMP. RS	PRESERV. SAMPLING	
Lab I.D. Sample I.D. #233739 \$5	(G)RAB OR (C) # CONTAINERS GROUNDWATE WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: CE/COOL OTHER:	
8407A	- #	OACO DAIE IME	
LEASE NOTE: Liability and Damages. Cardinal's liability and cl malyses. All daims including those for	PLEASE NOTE: Lability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or local shall be a small as a small shall be a small as a small shall be a		
service. In no event shall Cardinal be liable for incidental or consumitations or successors arising out of or related to the performance Relinquished By:	service. In no event shall Cardinal be liable to incigrance and any other cause whatbnever shall be deemed walved unless made in wifing and received by Cardinal be liable to incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by Cardinal within 30 days after compeliation of the applicable for successors arising out of or related to the performance of services hereunder by Cardinal, repartitiess of whether such claim is based upon any of the albeing stated research or office and the second or office and the seco	v. v.v., vanue et minde to the amount paid by the client for the freehind by Cardinal within 30 days after completion of the applicable one of use, or foss of profits incurred by client, its subsidiaries, is based upon any of the above stated presence or offencials.	
and an	Time: 520 DOOD ON 1	All Results are emailed.	Please provide Email address:
voinquisited by:	Date: Received By:	REMARKS: * UST	Short judinizing I Downso
	Observed Temp. C. Sample Condition	CHECKED BY: T	6 0
FURMINOUS R S.Z 10/07/Z)	Corrected Temp. 5. 4. Yes Tres Ino I No I No	Correction Factor -0.5°C	Cool Intact
			I NO CALLED



June 09, 2023

HADLIE GREEN

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: HARROUN RANCH #005

Enclosed are the results of analyses for samples received by the laboratory on 05/30/23 13:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

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

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

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

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

Method EPA 552.2 Total Haloacetic Acids (HAA-5)

Celey D. Keene

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

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705 Project: HARROUN RANCH #005

Project Number: 03C2012034 Project Manager: HADLIE GREEN

Fax To:

Reported: 09-Jun-23 16:51

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS11 1.0'	H232730-01	Soil	26-May-23 09:45	30-May-23 13:30
SS11A 2.0'	H232730-02	Soil	26-May-23 09:50	30-May-23 13:30

06/09/23 - Client changed the sample ID (see COC). This is the revised report and will replace the one sent on 06/02/23.

Cardinal Laboratories *=Accredited Analyte

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

Celeg D. Keine



Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705 Project: HARROUN RANCH #005

Project Number: 03C2012034

Project Manager: HADLIE GREEN

Fax To:

Reported: 09-Jun-23 16:51

SS11 1.0' H232730-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	128		16.0	mg/kg	4	3053010	AC	31-May-23	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	< 0.050		0.050	mg/kg	50	3053012	JH/	30-May-23	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	3053012	JH/	30-May-23	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	3053012	JH/	30-May-23	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	3053012	JH/	30-May-23	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	3053012	JH/	30-May-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			106 %	71.5	-134	3053012	JH/	30-May-23	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	3053014	MS	30-May-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3053014	MS	30-May-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3053014	MS	30-May-23	8015B	
Surrogate: 1-Chlorooctane			102 %	48.2	-134	3053014	MS	30-May-23	8015B	
Surrogate: 1-Chlorooctadecane			102 %	49.1	-148	3053014	MS	30-May-23	8015B	

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705 Project: HARROUN RANCH #005

Project Number: 03C2012034 Project Manager: HADLIE GREEN

Fax To:

Reported: 09-Jun-23 16:51

SS11A 2.0' H232730-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	224		16.0	mg/kg	4	3053010	AC	31-May-23	4500-Cl-B	
Volatile Organic Compounds	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	3053012	JH/	30-May-23	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	3053012	JH/	30-May-23	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	3053012	JH/	30-May-23	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	3053012	JH/	30-May-23	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	3053012	JH/	30-May-23	8021B	
Surrogate: 4-Bromofluorobenzene (PI.	D)		106 %	71.5	-134	3053012	JH/	30-May-23	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	3053014	MS	30-May-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3053014	MS	30-May-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3053014	MS	30-May-23	8015B	
Surrogate: 1-Chlorooctane			115 %	48.2	-134	3053014	MS	30-May-23	8015B	
Surrogate: 1-Chlorooctadecane			116 %	49.1	-148	3053014	MS	30-May-23	8015B	

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705 Project: HARROUN RANCH #005

Project Number: 03C2012034

Project Manager: HADLIE GREEN

Fax To:

Reported: 09-Jun-23 16:51

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3053010 - 1:4 DI Water										
Blank (3053010-BLK1)				Prepared &	Analyzed:	30-May-23	i			
Chloride	ND	16.0	mg/kg							
LCS (3053010-BS1)				Prepared &	Analyzed:	30-May-23	i			
Chloride	432	16.0	mg/kg	400		108	80-120			
LCS Dup (3053010-BSD1)				Prepared &	z Analyzed:	30-May-23	i			
Chloride	432	16.0	mg/kg	400		108	80-120	0.00	20	

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Celey D. Keene



%REC

Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705 Project: HARROUN RANCH #005

Spike

Source

Project Number: 03C2012034

Project Manager: HADLIE GREEN

Fax To:

Reported: 09-Jun-23 16:51

RPD

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Reporting

0.0521

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 3053012 - Volatiles										
Blank (3053012-BLK1)				Prepared &	z Analyzed:	30-May-2	3			
Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0542		mg/kg	0.0500		108	71.5-134			
LCS (3053012-BS1)				Prepared &	Analyzed:	30-May-2	3			
Benzene	2.14	0.050	mg/kg	2.00		107	81.4-118			
Toluene	2.23	0.050	mg/kg	2.00		112	88.7-121			
Ethylbenzene	2.13	0.050	mg/kg	2.00		106	86.1-120			
m,p-Xylene	4.45	0.100	mg/kg	4.00		111	88.2-124			
o-Xylene	2.13	0.050	mg/kg	2.00		106	84.9-118			
Total Xylenes	6.58	0.150	mg/kg	6.00		110	87.3-122			
Surrogate: 4-Bromofluorobenzene (PID)	0.0529		mg/kg	0.0500		106	71.5-134			
LCS Dup (3053012-BSD1)				Prepared &	Analyzed:	30-May-2	3			
Benzene	1.82	0.050	mg/kg	2.00		91.1	81.4-118	15.9	15.8	QR-04
Toluene	1.87	0.050	mg/kg	2.00		93.6	88.7-121	17.6	15.9	QR-04
Ethylbenzene	1.83	0.050	mg/kg	2.00		91.6	86.1-120	14.9	16	
m,p-Xylene	3.86	0.100	mg/kg	4.00		96.6	88.2-124	14.2	16.2	
o-Xylene	1.85	0.050	mg/kg	2.00		92.5	84.9-118	14.0	16.7	
Total Xylenes	5.71	0.150	mg/kg	6.00		95.2	87.3-122	14.1	16.3	

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mg/kg

0.0500

104

71 5-134

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Celey D. Keine

Surrogate: 4-Bromofluorobenzene (PID)



%REC

Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705 Project: HARROUN RANCH #005

Project Number: 03C2012034

Spike

Source

Project Manager: HADLIE GREEN

Fax To:

Reported: 09-Jun-23 16:51

RPD

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Reporting

		reporting		opine	Source		, or the		141 25	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 3053014 - General Prep - Organics										
Blank (3053014-BLK1)				Prepared &	& Analyzed:	30-May-2	3			
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	38.0		mg/kg	49.6		76.7	48.2-134			
Surrogate: 1-Chlorooctadecane	39.9		mg/kg	50.0		79.8	49.1-148			
LCS (3053014-BS1)				Prepared &	& Analyzed:	30-May-22	3			
GRO C6-C10	186	10.0	mg/kg	200		92.8	78.5-124			
DRO >C10-C28	164	10.0	mg/kg	200		81.8	72.5-126			
Total TPH C6-C28	349	10.0	mg/kg	400		87.3	77.6-123			
Surrogate: 1-Chlorooctane	41.2		mg/kg	49.6		83.1	48.2-134			
Surrogate: 1-Chlorooctadecane	44.9		mg/kg	50.0		89.7	49.1-148			
LCS Dup (3053014-BSD1)				Prepared &	& Analyzed:	30-May-2	3			
GRO C6-C10	177	10.0	mg/kg	200		88.3	78.5-124	5.05	17.7	
DRO >C10-C28	157	10.0	mg/kg	200		78.4	72.5-126	4.33	21	
Total TPH C6-C28	333	10.0	mg/kg	400		83.3	77.6-123	4.71	18.5	
Surrogate: 1-Chlorooctane	40.4		mg/kg	49.6		81.5	48.2-134			
Surrogate: 1-Chlorooctadecane	44.5		mg/kg	50.0		88.9	49.1-148			

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine



Notes and Definitions

QR-04 The RPD for the BS/BSD was outside of historical limits.

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

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

Celey D. Keene

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



101 East Marland, Hobbs, NM 88240

	Sampler - UPS - Bus - Other: Corrected	Delivered By: (Circle One) Observed	Time:	李	Relinquished By; Date	g out of or related to the performance	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims including those for profilesons and any other course whether based analysis. All claims including those for profilesons and any other course whether based analysis.				55	2 THINA	- X=X	M833730 S5	Lab I.D. * Sample I.D.		FOR LAB USE ONLY	Sampler Name: Peter Van Pater	Project Location: 37.28407 -104	Project Name: Harroun Kanch	H	Phone #: 432-557-8895 Fax #:		Address: GOI N. Macrontold St.	
ON DIN	- 1	Observed Temp. °C/ n.4) Sample Condition	e: Received by:	05.6	200	unuse writes rever shall be userned waived unless made in writing and quental damages, including without limitation, business interruptions, is of services hereunder by Cardinal, regardless. "whether such claim is	usive remedy for any claim arising whether based in contract					2.0' C '	-	# CC	UNDW	ATER	MATRIX		1.00095	#805	Project Owner:	X #:	State: [X Zip: 7970]	st, Swite 400	
7	(mitials)	CHECKED BY:	0	ney		ss made in writing and received by Cardinal within 30 days after usinnss interruptions, loss of use, or loss of profits incurred by cliu "whether such claim is based upon any of the above stated rear	or tort, shall be limited to the amount paid				8	~ 5.20cz	25.25	OTH ACID ICE /	ER : //BASE COOL ER :	4	PRESERV. SAMPLING	Fax #:	Phone #: 432-312-2203	State: TX Zip: 79701	city: Midlant	Address: DH S. PRWS	Attn: Kevin Jones	company: BTAO.	
Correction Factor -0.6°C	Thermometer ID	Turnaround Time:	TEMP	hgrene	Verbal Result:	completion of the applic ant, its subsidiaries, ions or otherwise.	by the client for the	_	_			× 056	X 5HC	TIME	Pt	+	LING		2203	10		25 \$	8	, ,	
-0.6°C		ie: Standard	NO JOHN	ensolu	□ Yes □	cable				÷.		×	X	P	TE		18	S							_
□ Nc □ No Corrected Temp. °C		Bacteria (only) S	Dr. We	hgreeneersour, we	No Ard'l Phone #:	9.																	145		



June 02, 2023

HADLIE GREEN

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: HARROUN RANCH #005

Enclosed are the results of analyses for samples received by the laboratory on 05/30/23 13:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keene

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Received: 05/30/2023 Reported: 06/02/2023

Project Name: HARROUN RANCH #005

03C2012034

Project Location: BTA 32.28407,-104.00095

Sampling Date: 05/26/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 27 1.0' (H232731-01)

Project Number:

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/30/2023	ND	2.14	107	2.00	15.9	
Toluene*	<0.050	0.050	05/30/2023	ND	2.23	112	2.00	17.6	
Ethylbenzene*	<0.050	0.050	05/30/2023	ND	2.13	106	2.00	14.9	
Total Xylenes*	<0.150	0.150	05/30/2023	ND	6.58	110	6.00	14.1	
Total BTEX	<0.300	0.300	05/30/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	05/31/2023	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2023	ND	186	92.8	200	5.05	
DRO >C10-C28*	41.9	10.0	05/30/2023	ND	164	81.8	200	4.33	
EXT DRO >C28-C36	<10.0	10.0	05/30/2023	ND					
Surrogate: 1-Chlorooctane	120	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	124	% 49.1-14	8						

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Analytical Results For:

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

Received: 05/30/2023 Reported: 06/02/2023

Project Name: HARROUN RANCH #005

Project Number: 03C2012034

Project Location: BTA 32.28407,-104.00095 Sampling Date: 05/26/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Shalyn Rodriguez

Sample ID: FS 28 1.0' (H232731-02)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/30/2023	ND	2.14	107	2.00	15.9	
Toluene*	<0.050	0.050	05/30/2023	ND	2.23	112	2.00	17.6	
Ethylbenzene*	<0.050	0.050	05/30/2023	ND	2.13	106	2.00	14.9	
Total Xylenes*	<0.150	0.150	05/30/2023	ND	6.58	110	6.00	14.1	
Total BTEX	<0.300	0.300	05/30/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/31/2023	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2023	ND	186	92.8	200	5.05	
DRO >C10-C28*	120	10.0	05/30/2023	ND	164	81.8	200	4.33	
EXT DRO >C28-C36	<10.0	10.0	05/30/2023	ND					
Surrogate: 1-Chlorooctane	101 5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105	% 49.1-14	8						

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Analytical Results For:

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

Received: 05/30/2023 Reported: 06/02/2023

HARROUN RANCH #005

Project Name: HARROUN R. Project Number: 03C2012034

Project Location: BTA 32.28407,-104.00095

Sampling Date: 05/26/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 29 1.0' (H232731-03)

Analyte	Result								
	. 100010	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/30/2023	ND	2.14	107	2.00	15.9	
Toluene*	<0.050	0.050	05/30/2023	ND	2.23	112	2.00	17.6	
Ethylbenzene*	<0.050	0.050	05/30/2023	ND	2.13	106	2.00	14.9	
Total Xylenes*	<0.150	0.150	05/30/2023	ND	6.58	110	6.00	14.1	
Total BTEX	<0.300	0.300	05/30/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/31/2023	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2023	ND	186	92.8	200	5.05	
DRO >C10-C28*	99.3	10.0	05/30/2023	ND	164	81.8	200	4.33	
EXT DRO >C28-C36	<10.0	10.0	05/30/2023	ND					
Surrogate: 1-Chlorooctane	98.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104 9	% 49.1-14	8						

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Analytical Results For:

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

Received: 05/30/2023 Reported: 06/02/2023

HARROUN RANCH #005

Project Name: HARROUN R. Project Number: 03C2012034

Project Location: BTA 32.28407,-104.00095

Sampling Date: 05/26/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 30 1.0' (H232731-04)

BTEX 8021B	mg	/kg	Analyze	ed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/30/2023	ND	2.14	107	2.00	15.9	
Toluene*	<0.050	0.050	05/30/2023	ND	2.23	112	2.00	17.6	
Ethylbenzene*	< 0.050	0.050	05/30/2023	ND	2.13	106	2.00	14.9	
Total Xylenes*	<0.150	0.150	05/30/2023	ND	6.58	110	6.00	14.1	
Total BTEX	<0.300	0.300	05/30/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	05/31/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2023	ND	221	111	200	9.69	
DRO >C10-C28*	81.0	10.0	05/30/2023	ND	189	94.7	200	4.38	
EXT DRO >C28-C36	<10.0	10.0	05/30/2023	ND					
Surrogate: 1-Chlorooctane	73.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	78.7	% 49.1-14	8						

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Analytical Results For:

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

Received: 05/30/2023 Reported: 06/02/2023

Project Name: HARROUN RANCH #005 Project Number: 03C2012034

Project Location: BTA 32.28407,-104.00095 Sampling Date: 05/26/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Shalyn Rodriguez

Sample ID: FS 31 1.0' (H232731-05)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/30/2023	ND	2.14	107	2.00	15.9	
Toluene*	<0.050	0.050	05/30/2023	ND	2.23	112	2.00	17.6	
Ethylbenzene*	<0.050	0.050	05/30/2023	ND	2.13	106	2.00	14.9	
Total Xylenes*	<0.150	0.150	05/30/2023	ND	6.58	110	6.00	14.1	
Total BTEX	<0.300	0.300	05/30/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	05/31/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2023	ND	221	111	200	9.69	
DRO >C10-C28*	<10.0	10.0	05/30/2023	ND	189	94.7	200	4.38	
EXT DRO >C28-C36	<10.0	10.0	05/30/2023	ND					
Surrogate: 1-Chlorooctane	86.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.3	% 49.1-14	8						

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Analytical Results For:

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

Received: 05/30/2023 Reported: 06/02/2023

HARROUN RANCH #005

Project Name: Project Number: 03C2012034

Project Location: BTA 32.28407,-104.00095 Sampling Date: 05/26/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Shalyn Rodriguez

Sample ID: FS 32 1.0' (H232731-06)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/30/2023	ND	2.11	106	2.00	4.71	
Toluene*	<0.050	0.050	05/30/2023	ND	2.12	106	2.00	5.92	
Ethylbenzene*	<0.050	0.050	05/30/2023	ND	2.17	109	2.00	5.47	
Total Xylenes*	<0.150	0.150	05/30/2023	ND	6.35	106	6.00	5.98	
Total BTEX	<0.300	0.300	05/30/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.6	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	05/31/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2023	ND	221	111	200	9.69	
DRO >C10-C28*	22.4	10.0	05/30/2023	ND	189	94.7	200	4.38	
EXT DRO >C28-C36	<10.0	10.0	05/30/2023	ND					
Surrogate: 1-Chlorooctane	89.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.5	% 49.1-14	8						

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Analytical Results For:

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

Received: 05/30/2023 Reported: 06/02/2023

Project Name: HARROUN RANCH #005 Project Number: 03C2012034

Project Location: BTA 32.28407,-104.00095

Sampling Date: 05/26/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 33 1.0' (H232731-07)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/30/2023	ND	2.11	106	2.00	4.71	
Toluene*	<0.050	0.050	05/30/2023	ND	2.12	106	2.00	5.92	
Ethylbenzene*	<0.050	0.050	05/30/2023	ND	2.17	109	2.00	5.47	
Total Xylenes*	<0.150	0.150	05/30/2023	ND	6.35	106	6.00	5.98	
Total BTEX	<0.300	0.300	05/30/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.2	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	05/31/2023	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2023	ND	221	111	200	9.69	
DRO >C10-C28*	12.4	10.0	05/30/2023	ND	189	94.7	200	4.38	
EXT DRO >C28-C36	<10.0	10.0	05/30/2023	ND					
Surrogate: 1-Chlorooctane	76.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	79.7	% 49.1-14	8						

Applyzod By: MC

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Analytical Results For:

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

Received: 05/30/2023 Reported: 06/02/2023

Project Name: HARROUN RANCH #005 Project Number: 03C2012034

Project Location: BTA 32.28407,-104.00095

Sampling Date: 05/26/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 34 1.0' (H232731-08)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/30/2023	ND	2.11	106	2.00	4.71	
Toluene*	<0.050	0.050	05/30/2023	ND	2.12	106	2.00	5.92	
Ethylbenzene*	<0.050	0.050	05/30/2023	ND	2.17	109	2.00	5.47	
Total Xylenes*	<0.150	0.150	05/30/2023	ND	6.35	106	6.00	5.98	
Total BTEX	<0.300	0.300	05/30/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.1	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	05/31/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2023	ND	221	111	200	9.69	
DRO >C10-C28*	16.4	10.0	05/30/2023	ND	189	94.7	200	4.38	
EXT DRO >C28-C36	<10.0	10.0	05/30/2023	ND					
Surrogate: 1-Chlorooctane	82.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.6	% 49.1-14	18						

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Analytical Results For:

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

Received: 05/30/2023 Reported: 06/02/2023

Project Name: HARROUN RANCH #005

Project Number: 03C2012034

Project Location: BTA 32.28407,-104.00095

Sampling Date: 05/26/2023
Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 35 1.0' (H232731-09)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/30/2023	ND	2.11	106	2.00	4.71	
Toluene*	<0.050	0.050	05/30/2023	ND	2.12	106	2.00	5.92	
Ethylbenzene*	<0.050	0.050	05/30/2023	ND	2.17	109	2.00	5.47	
Total Xylenes*	<0.150	0.150	05/30/2023	ND	6.35	106	6.00	5.98	
Total BTEX	<0.300	0.300	05/30/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.4	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	05/31/2023	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2023	ND	221	111	200	9.69	
DRO >C10-C28*	28.9	10.0	05/30/2023	ND	189	94.7	200	4.38	
EXT DRO >C28-C36	<10.0	10.0	05/30/2023	ND					
Surrogate: 1-Chlorooctane	88.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.2	% 49.1-14	8						

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Analytical Results For:

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

Received: 05/30/2023 Reported: 06/02/2023

Project Name: HARROUN RANCH #005

Project Number: 03C2012034 Project Location: BTA 32.28407,-104.00095 Sampling Date: 05/26/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Shalyn Rodriguez

Sample ID: FS 36 1.0' (H232731-10)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/30/2023	ND	2.11	106	2.00	4.71	
Toluene*	<0.050	0.050	05/30/2023	ND	2.12	106	2.00	5.92	
Ethylbenzene*	<0.050	0.050	05/30/2023	ND	2.17	109	2.00	5.47	
Total Xylenes*	<0.150	0.150	05/30/2023	ND	6.35	106	6.00	5.98	
Total BTEX	<0.300	0.300	05/30/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.3	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	05/31/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2023	ND	221	111	200	9.69	
DRO >C10-C28*	<10.0	10.0	05/30/2023	ND	189	94.7	200	4.38	
EXT DRO >C28-C36	<10.0	10.0	05/30/2023	ND					
Surrogate: 1-Chlorooctane	94.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.9	% 49.1-14	8						

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Analytical Results For:

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

Received: 05/30/2023 Reported: 06/02/2023

Project Name: HARROUN RANCH #005 Project Number: 03C2012034

Project Location: BTA 32.28407,-104.00095

Sampling Date: 05/26/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 37 1.0' (H232731-11)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/30/2023	ND	2.11	106	2.00	4.71	
Toluene*	<0.050	0.050	05/30/2023	ND	2.12	106	2.00	5.92	
Ethylbenzene*	<0.050	0.050	05/30/2023	ND	2.17	109	2.00	5.47	
Total Xylenes*	<0.150	0.150	05/30/2023	ND	6.35	106	6.00	5.98	
Total BTEX	<0.300	0.300	05/30/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	05/31/2023	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2023	ND	221	111	200	9.69	
DRO >C10-C28*	12.9	10.0	05/30/2023	ND	189	94.7	200	4.38	
EXT DRO >C28-C36	<10.0	10.0	05/30/2023	ND					
Surrogate: 1-Chlorooctane	88.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.9	% 49.1-14	8						

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Analytical Results For:

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

Received: 05/30/2023 Reported: 06/02/2023

Project Name: HARROUN RANCH #005
Project Number: 03C2012034

Project Location: BTA 32.28407,-104.00095

Sampling Date: 05/26/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 38 1.0' (H232731-12)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/30/2023	ND	2.11	106	2.00	4.71	
Toluene*	<0.050	0.050	05/30/2023	ND	2.12	106	2.00	5.92	
Ethylbenzene*	<0.050	0.050	05/30/2023	ND	2.17	109	2.00	5.47	
Total Xylenes*	<0.150	0.150	05/30/2023	ND	6.35	106	6.00	5.98	
Total BTEX	<0.300	0.300	05/30/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.7	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	05/31/2023	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2023	ND	221	111	200	9.69	
DRO >C10-C28*	11.8	10.0	05/30/2023	ND	189	94.7	200	4.38	
EXT DRO >C28-C36	<10.0	10.0	05/30/2023	ND					
Surrogate: 1-Chlorooctane	86.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.7	% 49.1-14	8						

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Analytical Results For:

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

Received: 05/30/2023 Reported: 06/02/2023

HARROUN RANCH #005

Project Name: Project Number: 03C2012034

Project Location: BTA 32.28407,-104.00095 Sampling Date: 05/26/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Shalyn Rodriguez

Sample ID: FS 39 1.0' (H232731-13)

BTEX 8021B	mg/	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2023	ND	2.11	106	2.00	4.71	
Toluene*	<0.050	0.050	05/31/2023	ND	2.12	106	2.00	5.92	
Ethylbenzene*	<0.050	0.050	05/31/2023	ND	2.17	109	2.00	5.47	
Total Xylenes*	<0.150	0.150	05/31/2023	ND	6.35	106	6.00	5.98	
Total BTEX	<0.300	0.300	05/31/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 5	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	05/31/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2023	ND	221	111	200	9.69	
DRO >C10-C28*	14.6	10.0	05/30/2023	ND	189	94.7	200	4.38	
EXT DRO >C28-C36	<10.0	10.0	05/30/2023	ND					
Surrogate: 1-Chlorooctane	90.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.5	% 49.1-14	8						

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Analytical Results For:

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

Received: 05/30/2023 Reported: 06/02/2023

Project Name: HARROUN RANCH #005 Project Number: 03C2012034

Project Location: BTA 32.28407,-104.00095

Sampling Date: 05/26/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 40 1.0' (H232731-14)

RTFY 8021R

B1EX 8021B	mg/	кg	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2023	ND	2.11	106	2.00	4.71	
Toluene*	<0.050	0.050	05/31/2023	ND	2.12	106	2.00	5.92	
Ethylbenzene*	<0.050	0.050	05/31/2023	ND	2.17	109	2.00	5.47	
Total Xylenes*	<0.150	0.150	05/31/2023	ND	6.35	106	6.00	5.98	
Total BTEX	<0.300	0.300	05/31/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	05/31/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2023	ND	221	111	200	9.69	
DRO >C10-C28*	114	10.0	05/30/2023	ND	189	94.7	200	4.38	
EXT DRO >C28-C36	<10.0	10.0	05/30/2023	ND					
Surrogate: 1-Chlorooctane	97.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106	% 49.1-14	8						

Applyzod By: MC

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Analytical Results For:

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

Received: 05/30/2023 Reported: 06/02/2023

Project Name: HARROUN RANCH #005

Project Location: BTA 32.28407,-104.00095

03C2012034

Sampling Date: 05/26/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 41 1.0' (H232731-15)

Project Number:

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2023	ND	2.11	106	2.00	4.71	
Toluene*	<0.050	0.050	05/31/2023	ND	2.12	106	2.00	5.92	
Ethylbenzene*	<0.050	0.050	05/31/2023	ND	2.17	109	2.00	5.47	
Total Xylenes*	<0.150	0.150	05/31/2023	ND	6.35	106	6.00	5.98	
Total BTEX	<0.300	0.300	05/31/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	05/31/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2023	ND	221	111	200	9.69	
DRO >C10-C28*	228	10.0	05/30/2023	ND	189	94.7	200	4.38	
EXT DRO >C28-C36	14.1	10.0	05/30/2023	ND					
Surrogate: 1-Chlorooctane	96.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106	% 49.1-14	8						

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Analytical Results For:

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

Received: 05/30/2023 Reported: 06/02/2023

HARROUN RANCH #005

Project Name: HARROUN R. Project Number: 03C2012034

Project Location: BTA 32.28407,-104.00095

Sampling Date: 05/30/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 42 1.0' (H232731-16)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2023	ND	2.11	106	2.00	4.71	
Toluene*	<0.050	0.050	05/31/2023	ND	2.12	106	2.00	5.92	
Ethylbenzene*	<0.050	0.050	05/31/2023	ND	2.17	109	2.00	5.47	
Total Xylenes*	<0.150	0.150	05/31/2023	ND	6.35	106	6.00	5.98	
Total BTEX	<0.300	0.300	05/31/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	05/31/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2023	ND	221	111	200	9.69	
DRO >C10-C28*	<10.0	10.0	05/30/2023	ND	189	94.7	200	4.38	
EXT DRO >C28-C36	<10.0	10.0	05/30/2023	ND					
Surrogate: 1-Chlorooctane	87.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.8	% 49.1-14	8						

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Analytical Results For:

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

Received: 05/30/2023 Reported: 06/02/2023

Project Name: HARROUN RANCH #005

Project Location: BTA 32.28407,-104.00095

03C2012034

mg/kg

Sampling Date: 05/30/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 43 1.0' (H232731-17)

Project Number:

BTEX 8021B

	9,	9	7	7: : : :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2023	ND	2.11	106	2.00	4.71	
Toluene*	<0.050	0.050	05/31/2023	ND	2.12	106	2.00	5.92	
Ethylbenzene*	<0.050	0.050	05/31/2023	ND	2.17	109	2.00	5.47	
Total Xylenes*	<0.150	0.150	05/31/2023	ND	6.35	106	6.00	5.98	
Total BTEX	<0.300	0.300	05/31/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.1	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	05/31/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2023	ND	221	111	200	9.69	
DRO >C10-C28*	<10.0	10.0	05/30/2023	ND	189	94.7	200	4.38	
EXT DRO >C28-C36	<10.0	10.0	05/30/2023	ND					
Surrogate: 1-Chlorooctane	90.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.3	% 49.1-14	8						

Analyzed By: MS

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Analytical Results For:

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

Received: 05/30/2023 Reported: 06/02/2023

Project Name: HARROUN RANCH #005

Project Number: 03C2012034

Project Location: BTA 32.28407,-104.00095 Sampling Date: 05/30/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Shalyn Rodriguez

Sample ID: FS 44 1.0' (H232731-18)

BTEX 8021B	mg/	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2023	ND	2.11	106	2.00	4.71	
Toluene*	<0.050	0.050	05/31/2023	ND	2.12	106	2.00	5.92	
Ethylbenzene*	<0.050	0.050	05/31/2023	ND	2.17	109	2.00	5.47	
Total Xylenes*	<0.150	0.150	05/31/2023	ND	6.35	106	6.00	5.98	
Total BTEX	<0.300	0.300	05/31/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	05/31/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2023	ND	221	111	200	9.69	
DRO >C10-C28*	<10.0	10.0	05/30/2023	ND	189	94.7	200	4.38	
EXT DRO >C28-C36	<10.0	10.0	05/30/2023	ND					
Surrogate: 1-Chlorooctane	53.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	55.6	% 49.1-14	8						

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Analytical Results For:

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

Received: 05/30/2023 Reported: 06/02/2023

Project Name: HARROUN RANCH #005

Project Number: 03C2012034

Project Location: BTA 32.28407,-104.00095

Sampling Date: 05/30/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 45 1.0' (H232731-19)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2023	ND	2.11	106	2.00	4.71	
Toluene*	<0.050	0.050	05/31/2023	ND	2.12	106	2.00	5.92	
Ethylbenzene*	<0.050	0.050	05/31/2023	ND	2.17	109	2.00	5.47	
Total Xylenes*	<0.150	0.150	05/31/2023	ND	6.35	106	6.00	5.98	
Total BTEX	<0.300	0.300	05/31/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.8	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	05/31/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2023	ND	221	111	200	9.69	
DRO >C10-C28*	<10.0	10.0	05/30/2023	ND	189	94.7	200	4.38	
EXT DRO >C28-C36	<10.0	10.0	05/30/2023	ND					
Surrogate: 1-Chlorooctane	83.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.3	% 49.1-14	8						

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Sample Received By:

05/30/2023

Shalyn Rodriguez

Analytical Results For:

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

Received: 05/30/2023 Sampling Date:

Reported: 06/02/2023 Sampling Type: Soil Project Name: HARROUN RANCH #005 Sampling Condition: Cool & Intact

Project Number: 03C2012034

Project Location: BTA 32.28407,-104.00095

Sample ID: FS 46 1.0' (H232731-20)

BTEX 8021B	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2023	ND	2.11	106	2.00	4.71	
Toluene*	<0.050	0.050	05/31/2023	ND	2.12	106	2.00	5.92	
Ethylbenzene*	<0.050	0.050	05/31/2023	ND	2.17	109	2.00	5.47	
Total Xylenes*	<0.150	0.150	05/31/2023	ND	6.35	106	6.00	5.98	
Total BTEX	<0.300	0.300	05/31/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.3	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	05/31/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2023	ND	221	111	200	9.69	
DRO >C10-C28*	<10.0	10.0	05/30/2023	ND	189	94.7	200	4.38	
EXT DRO >C28-C36	<10.0	10.0	05/30/2023	ND					
Surrogate: 1-Chlorooctane	84.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.4	% 49.1-14	8						

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05/30/2023

Analytical Results For:

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

Received: 05/30/2023 Sampling Date:

Reported: 06/02/2023 Sampling Type: Soil Project Name: HARROUN RANCH #005 Sampling Condition:

Cool & Intact Sample Received By: Project Number: 03C2012034 Shalyn Rodriguez

Project Location: BTA 32.28407,-104.00095

Sample ID: FS 47 1.0' (H232731-21)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2023	ND	2.11	106	2.00	4.71	
Toluene*	<0.050	0.050	05/31/2023	ND	2.12	106	2.00	5.92	
Ethylbenzene*	<0.050	0.050	05/31/2023	ND	2.17	109	2.00	5.47	
Total Xylenes*	<0.150	0.150	05/31/2023	ND	6.35	106	6.00	5.98	
Total BTEX	<0.300	0.300	05/31/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 5	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	05/31/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2023	ND	221	111	200	9.69	
DRO >C10-C28*	<10.0	10.0	05/30/2023	ND	189	94.7	200	4.38	
EXT DRO >C28-C36	<10.0	10.0	05/30/2023	ND					
Surrogate: 1-Chlorooctane	87.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.7	% 49.1-14	8						

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Analytical Results For:

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

Received: 05/30/2023 Reported: 06/02/2023

Project Name: HARROUN RANCH #005

Project Number: 03C2012034

Project Location: BTA 32.28407,-104.00095

Sampling Date: 05/30/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 48 1.0' (H232731-22)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2023	ND	2.11	106	2.00	4.71	
Toluene*	<0.050	0.050	05/31/2023	ND	2.12	106	2.00	5.92	
Ethylbenzene*	<0.050	0.050	05/31/2023	ND	2.17	109	2.00	5.47	
Total Xylenes*	<0.150	0.150	05/31/2023	ND	6.35	106	6.00	5.98	
Total BTEX	<0.300	0.300	05/31/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	05/31/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2023	ND	221	111	200	9.69	
DRO >C10-C28*	<10.0	10.0	05/30/2023	ND	189	94.7	200	4.38	
EXT DRO >C28-C36	<10.0	10.0	05/30/2023	ND					
Surrogate: 1-Chlorooctane	85.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.0	% 49.1-14	8						

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Analytical Results For:

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

Received: 05/30/2023 Reported: 06/02/2023

HARROUN RANCH #005

Project Name: HARROUN R. Project Number: 03C2012034

Project Location: BTA 32.28407,-104.00095

Sampling Date: 05/30/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 49 1.0' (H232731-23)

RTFY 8021R

31EX 8021B	mg	/ Kg	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2023	ND	2.11	106	2.00	4.71	
oluene*	<0.050	0.050	05/31/2023	ND	2.12	106	2.00	5.92	
thylbenzene*	<0.050	0.050	05/31/2023	ND	2.17	109	2.00	5.47	
otal Xylenes*	<0.150	0.150	05/31/2023	ND	6.35	106	6.00	5.98	
otal BTEX	<0.300	0.300	05/31/2023	ND					
Surrogate: 4-Bromofluorobenzene (P.	ID 99.4	% 71.5-13	34						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	05/31/2023	ND	416	104	400	0.00	
PH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2023	ND	221	111	200	9.69	
DRO >C10-C28*	<10.0	10.0	05/30/2023	ND	189	94.7	200	4.38	
EXT DRO >C28-C36	<10.0	10.0	05/30/2023	ND					
Surrogate: 1-Chlorooctane	67.4	% 48.2-13	34						
Surrogate: 1-Chlorooctadecane	70.1	% 49.1-14	18						
Č									

Applyzod By: MC

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Analytical Results For:

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

Received: 05/30/2023 Reported: 06/02/2023

Project Name: HARROUN RANCH #005 Project Number: 03C2012034

Project Location: BTA 32.28407,-104.00095

Sampling Date: 05/30/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 50 1.0' (H232731-24)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2023	ND	2.11	106	2.00	4.71	
Toluene*	<0.050	0.050	05/31/2023	ND	2.12	106	2.00	5.92	
Ethylbenzene*	<0.050	0.050	05/31/2023	ND	2.17	109	2.00	5.47	
Total Xylenes*	<0.150	0.150	05/31/2023	ND	6.35	106	6.00	5.98	
Total BTEX	<0.300	0.300	05/31/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.6	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	05/31/2023	ND	448	112	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2023	ND	202	101	200	4.72	
DRO >C10-C28*	<10.0	10.0	05/30/2023	ND	191	95.3	200	4.25	
EXT DRO >C28-C36	<10.0	10.0	05/30/2023	ND					
Surrogate: 1-Chlorooctane	107	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	111 9	% 49.1-14	8						

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Analytical Results For:

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

Received: 05/30/2023 Reported: 06/02/2023

Project Name: HARROUN RANCH #005

Project Number: 03C2012034

Project Location: BTA 32.28407,-104.00095

Sampling Date: 05/30/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 51 1.0' (H232731-25)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2023	ND	2.11	106	2.00	4.71	
Toluene*	<0.050	0.050	05/31/2023	ND	2.12	106	2.00	5.92	
Ethylbenzene*	<0.050	0.050	05/31/2023	ND	2.17	109	2.00	5.47	
Total Xylenes*	<0.150	0.150	05/31/2023	ND	6.35	106	6.00	5.98	
Total BTEX	<0.300	0.300	05/31/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.6	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	05/31/2023	ND	448	112	400	3.64	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2023	ND	202	101	200	4.72	
DRO >C10-C28*	<10.0	10.0	05/30/2023	ND	191	95.3	200	4.25	
EXT DRO >C28-C36	<10.0	10.0	05/30/2023	ND					
Surrogate: 1-Chlorooctane	107	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	109	% 49.1-14	8						

Applyzod By: MC

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05/30/2023

Soil

Analytical Results For:

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

Received: 05/30/2023 Sampling Date: Reported: 06/02/2023 Sampling Type:

Project Name: HARROUN RANCH #005 Sampling Condition: Cool & Intact
Project Number: 03C2012034 Sample Received By: Shalyn Rodriguez

Project Location: BTA 32.28407,-104.00095

Sample ID: FS 52 1.0' (H232731-26)

BTEX 8021B	mg	/kg	Analyze	ed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2023	ND	2.02	101	2.00	1.67	
Toluene*	<0.050	0.050	05/31/2023	ND	2.10	105	2.00	2.58	
Ethylbenzene*	<0.050	0.050	05/31/2023	ND	2.00	100	2.00	2.23	
Total Xylenes*	<0.150	0.150	05/31/2023	ND	6.17	103	6.00	1.24	
Total BTEX	<0.300	0.300	05/31/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	05/31/2023	ND	448	112	400	3.64	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2023	ND	202	101	200	4.72	
DRO >C10-C28*	<10.0	10.0	05/30/2023	ND	191	95.3	200	4.25	
EXT DRO >C28-C36	<10.0	10.0	05/30/2023	ND					
Surrogate: 1-Chlorooctane	86.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.4	% 49.1-14	8						

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Analytical Results For:

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

Received: 05/30/2023 Reported: 06/02/2023

Project Name: HARROUN RANCH #005

Project Number: 03C2012034

Project Location: BTA 32.28407,-104.00095

Sampling Date: 05/30/2023

Sampling Type: Soil
Sampling Condition: Cool

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 53 1.0' (H232731-27)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	a By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2023	ND	2.02	101	2.00	1.67	
Toluene*	<0.050	0.050	05/31/2023	ND	2.10	105	2.00	2.58	
Ethylbenzene*	<0.050	0.050	05/31/2023	ND	2.00	100	2.00	2.23	
Total Xylenes*	<0.150	0.150	05/31/2023	ND	6.17	103	6.00	1.24	
Total BTEX	<0.300	0.300	05/31/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	05/31/2023	ND	448	112	400	3.64	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2023	ND	202	101	200	4.72	
DRO >C10-C28*	<10.0	10.0	05/30/2023	ND	191	95.3	200	4.25	
EXT DRO >C28-C36	<10.0	10.0	05/30/2023	ND					
Surrogate: 1-Chlorooctane	109	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	114	% 49.1-14	8						

Analyzed By: 1H /

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Celey D. Keene



Analytical Results For:

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

Received: 05/30/2023 Reported: 06/02/2023

Project Name: HARROUN RANCH #005

Project Number: 03C2012034

Project Location: BTA 32.28407,-104.00095 Sampling Date: 05/30/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Shalyn Rodriguez

Sample ID: FS 54 1.0' (H232731-28)

BTEX 8021B	mg/	'kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2023	ND	2.02	101	2.00	1.67	
Toluene*	<0.050	0.050	05/31/2023	ND	2.10	105	2.00	2.58	
Ethylbenzene*	<0.050	0.050	05/31/2023	ND	2.00	100	2.00	2.23	
Total Xylenes*	<0.150	0.150	05/31/2023	ND	6.17	103	6.00	1.24	
Total BTEX	<0.300	0.300	05/31/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 5	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	05/31/2023	ND	448	112	400	3.64	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2023	ND	202	101	200	4.72	
DRO >C10-C28*	<10.0	10.0	05/30/2023	ND	191	95.3	200	4.25	
EXT DRO >C28-C36	<10.0	10.0	05/30/2023	ND					
Surrogate: 1-Chlorooctane	108 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	113 9	% 49.1-14	8						

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Celey D. Keene



Notes and Definitions

QR-04 The RPD for the BS/BSD was outside of historical limits.

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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Celeg D. Freene

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

CARDINAL Laboratories 101 East Marland, Hobbs, NM 8824

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

rroject Manager: Hadile Green	3		P.O. #:			ANALTOIS	KEQUEST
Address: 601 N Marienfeld Street, Suite 400	eet, Suite 400		Company: BTA Oil		_	_	
City: Midland	State: TX	Zip: 79701	Attn: Kevin Jones		_	_	
Phone #: 432-557-8895	Fax #:		Address: 404 C Door	2		_	
Project #: 03C2012034	Project Owner:	a	City: Midland	350	_		
Project Name: Harroun Ranch #005	72.2.		State: TY 7::: 707	2			
Project Location: 32.28407,-104.00095	4.00095		Dhone #. 432 242 222				
Sampler Name: Peter Van Patten	8		Friorie #: 432-312-2203	3			
FOR LAB USE ONLY	en		Fax #:		_		_
AND PART ONE OWEL		MATRIX	PRESERV. SAM	SAMPLING			
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PLEASE NOTE: Liability and Damages. Cardinal's liability	ly and clerify exclusive remarks for any		\ \ \ \ \ \				
analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in votinat or lord, shall be limited to the amount paid by the client for the service. In no event shall Cardinat be liable for inclaimal or consequental damages, including without limitation, business interruptions, loss of use or loss of the or collect in a new completion of the applicable of successors attiting out of or celeved to a new consequental damages, including without limitation, business interruptions, loss of use or loss of the collection of the applicable.	iny other cause whatsoever shall be deemed or consequental damages, including without	trined waived unless made in writing and reci throat waived unless made in writing and reci thout limitation, business interruptions, loss o	rt, shall be limited to the amount paid elved by Cardinal within 30 days after of loss of bridge incurred by all the control of use. Or loss of bridge incurred by all the control of use.	by the client for the completion of the applicable			
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Delivered By: (Circle One)	Observed Temp. *C	Sample Condition				2/8	
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

(0:0)	2000 1700 (010) 011		DI . 1110			ANAI YSIS	SIS REQUEST	T	_
Company Name: Ensolum, LLC	LLC		DILL IV		-				1
Project Manager: Hadlie Green	een		T.O. #:						_
Address: 601 N Marienfeld Street, Suite 400	Street, Suite 400		company. wire on					_	
City: Midland	State: TX Zi	Zip: 79701	Attn: Kevin Jones				_		
Phone #: 432-557-8895	Fax#:		Address: 104 S Pecos St	-		_			
Project #: 03C2012034	Project Owner:		City: Midland			_		_	_
Project Name: Harroun Ranch #005	ich #005	7	State: TX Zip: 79701			3		_	
Project Location: 32.28407,-104.00095	-104.00095		Phone #: 432-312-2203			_	_		
Sampler Name: Peter Van Patten	atten		Fax#:			_	_		_
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PLEASE NOTE: Lublity and Damages. Cardinal's lia analyses. All claims including those for negligence an service. In no event shall Cardinal be liable for incider	bility and client's exclusive rem d any other cause whatsoever tail or consequental damages.	aim arising whether based in contract or ned waived unless made it writing and re out limitation, business interruptions, los	ecty for any claim arrang whether based in contract or lost, shall be limited to the amount place of the contract or lost, shall be desirred within 30 days after completion of the a shall be desirred within 30 days after completion of the a shall be desirred within 30 days after completion of the including without limitation, business interruptions, loss of use, or loss at godits increased by client, dis suborbairies including without limitation, business interruptions, loss of use, or loss at godits increased by client, dis suborbairies.	plic by the control of the applica y client, its subsidiaries.	ble				
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Delivered by: (Circle One)	7	Cool Intact		Thermometer ID #113	i i	_		Observed remp. C	
Sampler - UPS - Bus - Other:	Corrected Temp.	T No I Yes	7	Correction Factor -0.5°C	-0.5°C		□ No □ No Co	Corrected Temp, °C	

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

CARDINAL Laboratories 101 East Marland, Hobbs, NM 8824

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

Company Nam	company Name: Ensolum, LLC			DII 1					
Project Manag	Project Manager: Hadlie Green			P.O. #:	0	+	1	ANALYSIS REQUEST	ST
Address: 601 N	Address: 601 N Marienfeld Street, Suite 400	t, Suite 400		Company: BTA Oil		_			
City: Midland		State: TX	Zip: 79701	Attn: Kevin Jones			_		
Phone #: 432-557-8895	57-8895	Fax#:		Address: 104 S Pecos St	ne St				
Project #: 03C2012034	012034	Project Owner:	er:	City: Midland		_			
Project Name:	Project Name: Harroun Ranch #005	3777		State: TX Zip: 79701	701				
Project Locatio	Project Location: 32.28407,-104.00095	0095		432	003	_			
Sampler Name:	Sampler Name: Peter Van Patten			Fax #:					
FOR LAB USE ONLY			MATRIX	SERV.	SAMPLING				
Lab I.D.	Sample I.D.	Depth (feet)	AB OR (C)OMP NTAINERS JNDWATER TEWATER	R: BASE:	24	FEX	lovides		
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000	1664	4		(005	×	*		
PLEASE NOTE: Liability and analyses. All claims including service. In no event shall Care	Damages, Cardinal's liability ar those for negligence and any of	nd clients exclusive remedy for a other cause whatsoever shall be	PLEASE NOTE: Lability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatboewer shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the analyses.	or fort, shall be limited to the amount p	aid by the client for the				
Relinquished By	ates or successors arising out of or related to the perform	nance of services hereunder by C	affiliates or successors arising out of or related to the performance of services hereunder by Clorina, regardless of whether such daim is based upon any of the above stated reasons or otherwise. Relinquished By:	oss of use, or loss of profits incurred by s based upon any of the above stated r	client, its subsidiaries, reasons or otherwise,	The state of the s	\		
De Ci	南	5-30-23 Time: 1330	Spooleign	4	Verbal Result: 2 Ye All Results are emailed.		erbal Result: Yes P'No Add' Results are emailed. Please provide Emailed. Please pro	Please provide Email address:	
		Time:	Received By:	(REMARKS:	MICH	th 8:34:	3:4:	
Delivered By: (Circle One)		Observed Temp. C	m l) 유	Turnaround Time:		Standard	Bacteria (only) Sample	Condition
Sampler - UPS - Bus - Other		Corrected Temp.	The Cool Intact	Sanitials)	Thermometer ID #113		Rush	Cool Intact	Observed Temp. °C
TOO DAY	3.2 10/07/21	† Cardinal ca	-	ros Plassa amail ala	Correction Factor	2.60		Nc No Corre	Corrected Temp, °C



June 27, 2023

HADLIE GREEN

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: HARROUN RANCH #005

Enclosed are the results of analyses for samples received by the laboratory on 06/23/23 9:29.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Wite Sough

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,

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Received: 06/23/2023 Reported: 06/27/2023

Project Name: HARROUN RANCH #005

Project Number: 03C2012034

Project Location: BTA 32.28407,-104.00095

Sampling Date: 06/21/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SS 10 1.0 (H233251-01)

DTEV 0021D

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/23/2023	ND	2.28	114	2.00	2.09	
Toluene*	<0.050	0.050	06/23/2023	ND	2.23	112	2.00	2.59	
Ethylbenzene*	<0.050	0.050	06/23/2023	ND	2.11	105	2.00	1.07	
Total Xylenes*	<0.150	0.150	06/23/2023	ND	6.48	108	6.00	0.241	
Total BTEX	<0.300	0.300	06/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	06/23/2023	ND	400	100	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/23/2023	ND	173	86.4	200	0.328	
DRO >C10-C28*	<10.0	10.0	06/23/2023	ND	163	81.6	200	0.0809	
EXT DRO >C28-C36	<10.0	10.0	06/23/2023	ND					
Surrogate: 1-Chlorooctane	80.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	74.8	% 49.1-14	8						

Analyzed By MC

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Analytical Results For:

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

Received: 06/23/2023 Sampling Date: 06/21/2023

Reported: 06/27/2023 Sampling Type: Soil
Project Name: HARROUN RANCH #005 Sampling Condition: Coo

Project Name: HARROUN RANCH #005 Sampling Condition: Cool & Intact
Project Number: 03C2012034 Sample Received By: Shalyn Rodriguez

Project Location: BTA 32.28407,-104.00095

Sample ID: FS 28A 1.25 (H233251-02)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/24/2023	ND	2.32	116	2.00	9.06	
Toluene*	<0.050	0.050	06/24/2023	ND	2.25	113	2.00	8.28	
Ethylbenzene*	<0.050	0.050	06/24/2023	ND	2.19	109	2.00	7.07	
Total Xylenes*	<0.150	0.150	06/24/2023	ND	6.59	110	6.00	6.62	
Total BTEX	<0.300	0.300	06/24/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	06/23/2023	ND	400	100	400	7.69	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/23/2023	ND	173	86.4	200	0.328	
DRO >C10-C28*	<10.0	10.0	06/23/2023	ND	163	81.6	200	0.0809	
EXT DRO >C28-C36	<10.0	10.0	06/23/2023	ND					
Surrogate: 1-Chlorooctane	90.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.7	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Mile Sough



Analytical Results For:

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

Received: 06/23/2023 Reported: 06/27/2023

Project Name: HARROUN RANCH #005

Project Number: 03C2012034

Project Location: BTA 32.28407,-104.00095

Sampling Date: 06/21/2023

Sampling Type: Soil
Sampling Condition: Cool & Intact

Sample Received By: Shalyn Rodriguez

Sample ID: FS 40A 1.25 (H233251-03)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/24/2023	ND	2.32	116	2.00	9.06	
Toluene*	<0.050	0.050	06/24/2023	ND	2.25	113	2.00	8.28	
Ethylbenzene*	<0.050	0.050	06/24/2023	ND	2.19	109	2.00	7.07	
Total Xylenes*	<0.150	0.150	06/24/2023	ND	6.59	110	6.00	6.62	
Total BTEX	<0.300	0.300	06/24/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	06/23/2023	ND	400	100	400	7.69	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/23/2023	ND	173	86.4	200	0.328	
DRO >C10-C28*	<10.0	10.0	06/23/2023	ND	163	81.6	200	0.0809	
EXT DRO >C28-C36	<10.0	10.0	06/23/2023	ND					
Surrogate: 1-Chlorooctane	98.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.4	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Me Sough



Analytical Results For:

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

 Received:
 06/23/2023
 Sampling Date:
 06/21/2023

 Reported:
 06/27/2023
 Sampling Type:
 Soil

Project Name: HARROUN RANCH #005 Sampling Condition: Cool & Intact
Project Number: 03C2012034 Sample Received By: Shalyn Rodriguez

Project Location: BTA 32.28407,-104.00095

Sample ID: FS 41A 1.25 (H233251-04)

BTEX 8021B	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/24/2023	ND	2.32	116	2.00	9.06	
Toluene*	<0.050	0.050	06/24/2023	ND	2.25	113	2.00	8.28	
Ethylbenzene*	<0.050	0.050	06/24/2023	ND	2.19	109	2.00	7.07	
Total Xylenes*	<0.150	0.150	06/24/2023	ND	6.59	110	6.00	6.62	
Total BTEX	<0.300	0.300	06/24/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	06/23/2023	ND	400	100	400	7.69	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/23/2023	ND	173	86.4	200	0.328	
DRO >C10-C28*	<10.0	10.0	06/23/2023	ND	163	81.6	200	0.0809	
EXT DRO >C28-C36	<10.0	10.0	06/23/2023	ND					
Surrogate: 1-Chlorooctane	92.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.8	% 49.1-14	8						

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

Mile Sough



Notes and Definitions

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

(010) 0002-000	1010/000			
Company Name: Ensolum, LLC		BILL TO		ANALTSIS REGUES!
Project Manager: Hadlie Green		P.O. #:		
Address: 601 N Marienfeld Street, Suite 400	uite 400	Company: BTA Oil		
City: Midland	State: TX Zip: 79701	701 Attn: Kelton Beaird		
Phone #: 432-557-8895	Fax#:	Address: 104 S Pecos St	s St	
Project #: 03C2012034	Project Owner:	City: Midland		
Project Name: Harroun Ranch #005		State: TX Zip: 79701	01	
Project Location: 32.28407,-104.00095	95	Phone #: 432-312-2203	33	
Sampler Name: Peter Van Patten		1		
FOR LAB USE ONLY	MP.	MATRIX	des	
Lab I.D. Sample I.D.	(feet) (G)RAB OR (C)ON # CONTAINERS	GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:		BTEX
	1.0	C2-12-9	935 ~ ~	< <
2 F540A	1.25 61	< <	<	<
	1.25 (1	< < < < < < < < < < < < < < < < < < <	> > Shb	\<
		The contract of the contract o		
PLEASE NOTE: Labilty and Damages. Cardinal's liability and analyses. All claims including those for negligence and any or analyses. All claims including those for negligence and any or	d client's exclusive remedy for any claim aris ther cause whatboeyer shall be deemed wai- prosperuental damages, including without limi	PLEASE NOTE: Labity and Damages. Cardina's liability and client's exclusive remedy for any daim arising whether based in contract or tort, shall be limited to the ambunipated by the client for the paper of the pap	paid by the client for the after completion of the applicable by elent, its subsidiaries,	
Relinquished By:	Time: 905	Received By: MOUCS	re emaile	Verbal Result: Pres PNo Add"Phone #: All Results are emailed. Please provide Email address: hoven @ Choolum. Com, trocrissey bensolum com
Relinquished By:		Received By: 0	REMARKS:	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Corrected Temp. C. 4:	Sample Condition CHECKED BY: Cool Intact (Initials)	Turnaround Time: Thermometer ID #113 Correction Factor -0.5°C	Standard



APPENDIX E

NMOCD Notifications

From: Enviro, OCD, EMNRD

To: Hadlie Green

Cc: Bratcher, Michael, EMNRD; Hamlet, Robert, EMNRD

Subject: RE: [EXTERNAL] BTA - Sampling Notification - Week of 05/22/2023

Date: Friday, May 19, 2023 1:25:29 PM

Attachments: image005.jpg image006.png

image007.png image008.png image009.png

[**EXTERNAL EMAIL**]

Hadlie,

Please be aware that notification requirements are **two business days**, per rule. You may proceed on your schedule. This, and all correspondence, should be included in the closure report to insure inclusion in the project file.

JH

Jocelyn Harimon • Environmental Specialist

Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov

http://www.emnrd.nm.gov



From: Hadlie Green hgreen@ensolum.com>
Sent: Thursday, May 18, 2023 11:37 AM

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

Cc: Tacoma Morrissey <tmorrissey@ensolum.com>; Nathan Sirgo <nsirgo@btaoil.com>; Kevin Jones (kjones@btaoil.com) <kjones@btaoil.com>; Kelton Beaird <KBeaird@btaoil.com>

Subject: [EXTERNAL] BTA - Sampling Notification - Week of 05/22/2023

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

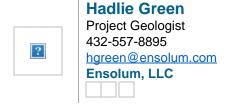
All,

BTA anticipates collecting confirmation samples at the following locations the week of May 22, 2023.

- Harroun Ranch #005 / nAPP2200455573
 - Sampling Date: 5/23/2023 @ 9:00 AM MST

- Harroun East Tank Battery / nAPP2204151142
 - Sampling Date: 5/22/2023 @ 9:00 AM MST
- Harroun East Tank Battery / nAPP2202845563
 - Sampling Date: 5/22/2023 @ 9:00 AM MST
- Mesa Dolphin CTB / nAPP2313555368
 - Sampling Date: 5/25/2023 @ 9:00 AM MST
- Mesa 2H Production Facility / nAPP2115531696
 - Sampling Date: 5/25/2023 @ 9:00 AM MST
- Rojo 20 21 Tank Batery / nAPP2123554329
 - Sampling Date: 5/26/2023 @ 9:00 AM MST
- Rojo 38 41 Tank Battery / nAPP2123555001
 - Sampling Date: 5/26/2023 @ 9:00 AM MST
- Mesa 8105 JV-P 004H / nOY1831160155 /nCH1903550822 / nRM2004549559
 - Sampling Date: 5/24-24/2023 @ 9:00 AM MST

Thank you,



From: Enviro, OCD, EMNRD

To: Hadlie Green; Bratcher, Michael, EMNRD

Cc: Bratcher, Michael, EMNRD; Velez, Nelson, EMNRD

Subject: RE: [EXTERNAL] BTA - Sampling Notification - Week of 06/19/2023

Date: Friday, June 16, 2023 2:39:46 PM

Attachments: image005.jpg

image006.png image007.png image008.png image009.png

[**EXTERNAL EMAIL**]

Hadlie,

Please be aware that notification requirements are **two business days**, per rule. You may proceed on your schedule. This, and all correspondence, should be included in the closure report to ensure inclusion in the project file.

JH

Jocelyn Harimon • Environmental Specialist

Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov

http://www.emnrd.nm.gov



From: Hadlie Green <hgreen@ensolum.com>

Sent: Friday, June 16, 2023 10:54 AM

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

Cc: Tacoma Morrissey <tmorrissey@ensolum.com>; Kelton Beaird <KBeaird@btaoil.com>

Subject: [EXTERNAL] BTA - Sampling Notification - Week of 06/19/2023

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

All,

BTA anticipates collecting confirmation samples at the following locations the week of June 19, 2023.

Mesa 30 31 Tank Battery / nAPP2106930621

- Sampling Date: 6/19/2023 @ 9:00 AM MST
- Mesa 8105 JVP #3 Produced Water Line / nRM2016045357
 - Sampling Date: 6/19-20/2023 @ 9:00 AM MST
- Mesa #16H Flowline / nAPP2123156473
 - Sampling Date: 6/21-22/2023 @ 9:00 AM MST
- Harroun Ranch #005 / nAPP2200455573
 - Sampling Date: 6/21/2023 @ 9:00 AM MST

Thank you,



Hadlie Green

Project Geologist 432-557-8895 hgreen@ensolum.com Ensolum, LLC



APPENDIX F

Final C-141

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

State of New Mexico **Energy Minerals and Natural** Resources Department

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

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

Incident ID	nAPP2200455573
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: BTA Oil Producers, LLC	OGRID: 260297
Contact Name: Bob Hall	Contact Telephone: 432-682-3753
Contact email: bhall@btaoil.com	Incident # (assigned by OCD) nAPP2200455573
Contact mailing address: 104 S. Pecos St., Midland, TX 79701	

Location of Release Source

Latitude: 32.28407 Longitude: -104.00095

(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Harroun Ranch #005	Site Type: Well Pad
	API# (if applicable) Nearest well: Harroun Ranch #5 API #30-015-46976

Unit Letter	Section	Township	Range	County
Р	20	23S	29E	Eddy

Surface Owner	☐ State	▼ Federal	Tribal	Private (Name:)

Nature and Volume of Release

Material	(s) Released (Select all that apply and attach calculations or specific	justification for the volumes provided below)
Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
Produced Water	Volume Released (bbls) 953 BBL	Volume Recovered (bbls) 900 BBL
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	⊠ Yes □ No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Course of Dologo	· · · · · · · · · · · · · · · · · · ·	

Cause of Release

Valve frozen on a sand trap tank caused the tank to overflow and spill on the pad in the vicinity of the well. Recovered 900 BW. Site has been scraped down to rock at depths ranging from 2" to 6" deep across the pad and generated about 80 cubic yards of impacted caliche for disposal. Initial lab samples taken after the scrape are at 600 PPM Chlorides. (Spill calculation spreadsheet attached.)

Received by OCD: 9/28/2023 2:02:28 PM State of New Mexico
Page 2 Oil Conservation Division

	PageH59eof 1	60
ID	nAPP2200455573	

Incident ID	nAPP2200455573
District RP	
Facility ID	
Application ID	

***	TOTAL CONTROL OF THE	
Was this a major release as defined by	If YES, for what reason(s) does the responsible party consider this a major release?	
19.15.29.7(A) NMAC?	Release exceeded volume of 25 barrels.	
M Van D Na		
⊠ Yes □ No		
If VES was immediate n	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	
ii 123, was iiiiiiediate ii	once given to the OCD: By whom: To whom: when and by what means (phone, eman, etc):	
Via filing NOR docum 1/4/2022.	nent on NMOCD Permitting Portal that was assigned Incident ID # nAPP2200455573 on	
	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 rele	ease has been stopped.	
The impacted area ha	as been secured to protect human health and the environment.	
Released materials ha	ave been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
All free liquids and re	ecoverable materials have been removed and managed appropriately.	
If all the actions describe	d above have not been undertaken, explain why:	
has begun, please attach	AC the responsible party may commence remediation immediately after discovery of a release. If remediation a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
	ormation given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and	
	required to report and/or file certain release notifications and perform corrective actions for releases which may endanger ment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have	
failed to adequately investig	gate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In 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.	it a C-141 report does not reneve the operator of responsibility for compliance with any other rederal, state, or local laws	
Duinted Manage Bob Hol	II. Tide. Environmental Manager	
Printed Name: Bob Hall Title: Environmental Manager		
Signature: Date: 1/21/2021		
	T. 1 422 CO2 2752	
email: bhall@btaoil.c	Telephone: 432-682-3753	
OCD Only		
	1/04/2020	
Received by: Ramona	Marcus Date: 1/24/2022	

Location Harroun Ranch 5

API#

Spill Date 1/3/2022

Spill Dimensions

ENTER - Length of Spill 173 feet
ENTER - Width of Spill 173 feet
ENTER - Saturation Depth of Spill 4 inches

ENTER - Porosity Factor 0.03 decimal

Oil Cut - Well Test / Vessel Throughput or Contents

 Oil
 0.01

 Water
 99.99

 Calculated Oil Cut
 0.0001

Volume Recovered in Truck / Containment

ENTER - Recovered Oil 0 BBL
ENTER - Recovered Water 900 BBL

Calculated Values calculated

Release of Oil in Soil - Unrecovered 0 BBL
Release of Water in Soil - Unrecovered 53 BBL
Unrecovered Total Release 53 BBL

Calculated Values calculated

Total Release of Oil 0 BBL
Total Release of Water 953 BBL
Total Release 953 BBL

Types of Soil	Porosity Factor
Gravel	0.25
Sand	0.20
Clay/silt/sand Mix	0.15
Clay	0.05
Caliche	0.03
Unknown	0.25

(Length X Width X Depth X 1 ft/12 in) X Porosity 5.615 ft³ / BBL X Oil Cut (or Water Cut)

Harroun Ranch #5 NAPP2200455573





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

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

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

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

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

CONDITIONS

Action 74204

CONDITIONS

Operator:	OGRID:
BTA OIL PRODUCERS, LLC	260297
104 S Pecos	Action Number:
Midland, TX 79701	74204
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By		Condition Date
rmarcus	None	1/24/2022

Page 163 of 166
State of New Mexico

Incident ID	nAPP2200455573
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

 $This information \ must be provided \ to \ the \ appropriate \ district \ of fice \ no \ later \ than \ 90 \ days \ after \ the \ release \ discovery \ date.$

What is the shallowest depth to groundwater beneath the area affected by the release?	<50 (ft bgs)	
Did this release impact groundwater or surface water?	☐ Yes ⊠ No	
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ⊠ No	
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ⊠ No	
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ No	
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ⊠ No	
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ⊠ No	
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ⊠ No	
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ⊠ No	
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ⊠ No	
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ⊠ No	
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ⊠ No	
Did the release impact areas not on an exploration, development, production, or storage site?		
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.		
Characterization Report Checklist: Each of the following items must be included in the report.		
 \infty Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring well \infty Field data 	ls.	
☐ Data table of soil contaminant concentration data		
 ☑ Depth to water determination ☑ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release 		
Boring or excavation logs		
Photographs including date and GIS information		
☐ Topographic/Aerial maps		
☐ Laboratory data including chain of custody		

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

Received by OCD: 9/28/2023 2:02:28 PM Form C-141 State of New Mexico Oil Conservation Division Page 4

	Page 164 of 1	60
ID	nAPP2200455573	

Incident ID	nAPP2200455573
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		
Printed Name:Kelton_Beaird	Title: _Environmental Manager	
Printed Name:Kelton_Beaird	Date:09/28/2023	
email:KBeaird@btaoil.com	Telephone:432-312-2203	
OCD Only		
Received by:	Date:	

Page 165 of 166

	1 1180 100 0) 1
Incident ID	nAPP2200455573
District RP	
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

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

☐ A scaled site and sampling diagram as described in 19.15.29.1	1 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate ODG	C District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or file certai may endanger public health or the environment. The acceptance of	ntions. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in
Printed Name:Kelton Beaird	Title:Environmental Manager
Signature:	Date:09/28/2023
email:KBeaird@btaoil.com	Telephone:432-312-2203
OCD Only	
Received by:	Date:
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.
Closure Approved by:	Date:
Printed Name:	Title:

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Phone: (575) 393-6161 Fax: (575) 393-0720

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

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

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

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

CONDITIONS

Action 270258

CONDITIONS

Operator:	OGRID:
BTA OIL PRODUCERS, LLC	260297
104 S Pecos	Action Number:
Midland, TX 79701	270258
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	Remediation closure approved.	3/18/2024
amaxwell	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	3/18/2024