



March 10, 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
Young #1 Tank Battery
Incident Number nAPP2231476257
Lea 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 Young #1 Tank Battery (Site). The purpose of the Site assessment, excavation, and soil sampling activities was to address impacts to soil resulting from a crude oil release at the Site. Based on the excavation activities and laboratory analytical results from the soil sampling events, BTA is submitting this *Closure Request*, describing remediation that has occurred and requesting closure for Incident Number nAPP2231476257.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit A, Section 11, Township 18 South, Range 32 East, in Lea County, New Mexico (32.76721°, -103.72983°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On November 10, 2022, failure of an oil tank resulted in the release of approximately 218 barrels (bbls) of crude within the earthen containment berm and into the adjacent pasture area. A vacuum truck was dispatched to the Site to recover free-standing fluids; approximately 100 bbls of crude oil were recovered. BTA reported the release immediately to the New Mexico Oil Conservation Division (NMOCD) via email on November 10, 2022 and submitted a *Release Notification Form C-141* (Form C-141) on November 21, 2022. The release was assigned Incident Number nAPP2231476257.

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 3 of the Form C-141, Site Assessment/Characterization. Potential Site receptors are identified on Figure 1.

Depth to groundwater at the Site is reasonably estimated to be between 51 feet and 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is United States Geological Survey (USGS) well 324512103455001, located approximately 2.2 miles southwest of the Site. The groundwater well has a reported depth to

BTA Oil Producers, LLC
Closure Report
Young #1 Tank Battery

groundwater of 85 feet bgs and a total depth of 100 feet bgs. Ground surface elevation at the groundwater well location is 3,879 feet above mean sea level (amsl), which is approximately 79 feet lower in elevation than the Site. All wells used for depth to groundwater determination are presented on Figure 1. The referenced well records are included in Attachment 1. All wells used for depth to groundwater determination are depicted on Figure 1.

The closest continuously flowing or significant watercourse to the Site is an intermittent riverine, located approximately 720 feet southeast 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 (low 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)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 10,000 mg/kg

A reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH was applied to the top 4 feet of the pasture area that was impacted by the release, per 19.15.29.13.D (1) NMAC for the top 4 feet of areas that will be reclaimed following remediation.

SITE ASSESSMENT ACTIVITIES AND ANALYTICAL RESULTS

On November 16, 2022, Ensolum personnel were at the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. Nine preliminary assessment soil samples (SS01 through SS09) were collected within and around the release extent at a depth of approximately 0.5 feet bgs to assess the release. The preliminary soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride utilizing Hach® chloride QuanTab® test strips. The release extent and preliminary soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation was completed during the Site visit and a photographic log is included in Appendix B.

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

Laboratory analytical results for preliminary soil samples SS01 through SS05, collected within the release extent, indicated TPH concentrations exceeded the Closure Criteria. Laboratory analytical results for preliminary soil samples SS06 through SS09, collected around the release extent, indicated all COC concentrations were compliant with the most stringent Table I Closure Criteria and laterally

BTA Oil Producers, LLC
Closure Report
Young #1 Tank Battery

defined the release extent. Based on laboratory analytical results for preliminary soil samples SS01 through SS05, excavation activities appeared to be warranted.

EXCAVATION ACTIVITIES AND ANALYTICAL RESULTS

Between December 1 and December 14, 2022, impacted soil was excavated as indicated by laboratory analytical results. Excavation activities were performed using a backhoe and transport vehicles. To direct excavation activities, soil was screened for VOCs and chloride. The excavation was completed to a maximum depth of 4.5 feet bgs. Photographic documentation of the excavation activities is included in Appendix B.

Following removal of the impacted soil, 5-point composite soil samples were collected every 200 square feet from the floor and sidewalls of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples FS01 through FS84 were collected from the floor of the excavation at a depth of 4 feet bgs. Composite soil samples SW01 through SW12 were collected from the sidewalls of the excavation at depths ranging from the ground surface to 4 feet bgs. The excavation soil samples were handled and analyzed following the same procedures as described above. Confirmation soil samples were submitted to Cardinal as well as Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico. The excavation extent and excavation soil sample locations are presented on Figure 3.

Laboratory analytical results for excavation samples FS01 through FS20, FS22 through FS30, FS33 through FS45, FS47, FS51 through FS55, FS57, FS59, FS61 through FS65, FS67, FS72 through FS75, FS77, FS82, and FS84 indicated all COC concentrations were compliant with the Site Closure Criteria and reclamation requirement. Additionally, laboratory analytical results for excavation samples SW01 through SW12 indicated all COC concentrations were compliant with the Site Closure Criteria and reclamation requirement.

Between December 22, 2022, and February 06, 2023, additional soil was removed in the vicinity of excavation confirmation floor soil samples FS21, FS31, FS32, FS46, FS48, FS49, FS50, FS56, FS58, FS60, FS66, FS68 through FS71, FS76, FS78 through FS81, and FS83 based on laboratory analytical results indicating COC concentrations above the Site Closure Criteria and/or reclamation requirements. Subsequent floor composite samples FS21A, FS31A, FS32A, FS46A, FS48A, FS49A, FS50A, FS56A, FS58A, FS60A, FS66A, FS68A through FS71A, FS76A, FS78A through FS81A, and FS83A were collected from the final excavation extent (maximum depth of 4.5 feet bgs).

Laboratory analytical results for the remaining composite floor soil samples indicated all COC concentrations were compliant with the most stringent Table I Closure Criteria. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Appendix C.

The excavation measured approximately 15,840 square feet in areal extent. A total of approximately 2,640 cubic yards of impacted soil was removed during excavation activities. The impacted soil was transported and properly disposed of at the R360 Facility in Hobbs, New Mexico.

CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the November 10, 2022, crude oil release. Laboratory analytical results for excavation soil samples, collected from the final excavation extent, indicated all COC concentrations were compliant with the Site Closure Criteria, reclamation requirement, and the most stringent Table I Closure Criteria. Based on the soil sample

BTA Oil Producers, LLC
Closure Report
Young #1 Tank Battery

analytical results, no further remediation appears to be required. BTA will backfill the excavation with material purchased locally and recontour the Site to match pre-existing site conditions and reseed utilizing a BLM-approved seed mixture.

BTA believes these remedial actions are protective of human health, the environment, and groundwater. As such, BTA respectfully requests closure for Incident Number nAPP2231476257. The required NMOCD notifications are included as Appendix D and the Final C-141 is included as Appendix E.

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

Sincerely,
Ensolum, LLC



Kelly Lowery, GIT
Project Manager



Tacoma Morrissey
Senior Geologist

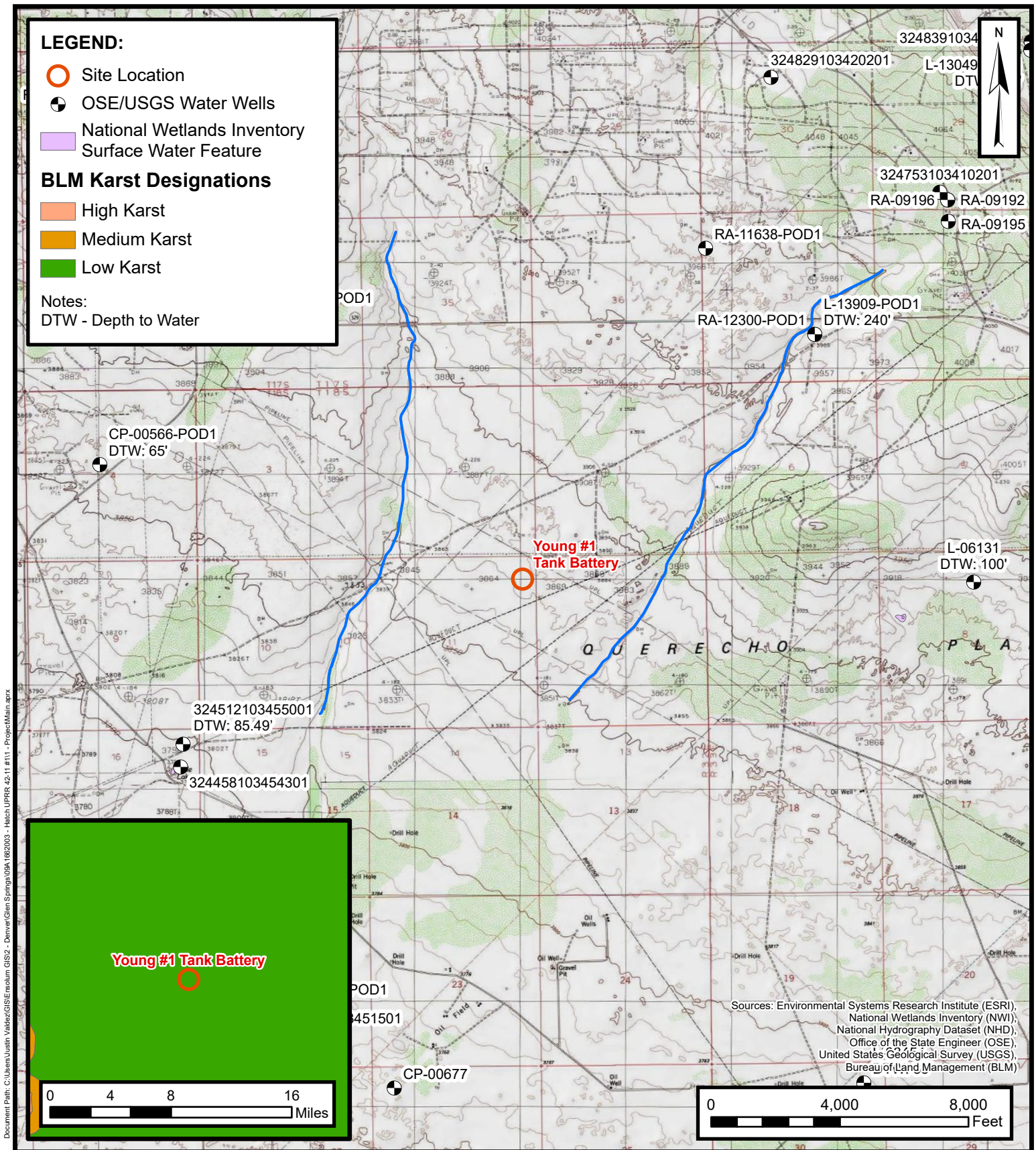
cc: Bob Hall, BTA Oil Producers, LLC
Bureau of Land Management

Appendices:

Figure 1	Site Location Map
Figure 2	Preliminary Soil Sample Locations
Figure 3	Excavation Soil Sample Locations
Table 1	Soil Sample Analytical Results
Appendix A	Referenced Well Records
Appendix B	Photographic Log
Appendix C	Laboratory Analytical Reports & Chain-of-Custody Documentation
Appendix D	NMOCD Notifications
Appendix E	Final C-141



FIGURES

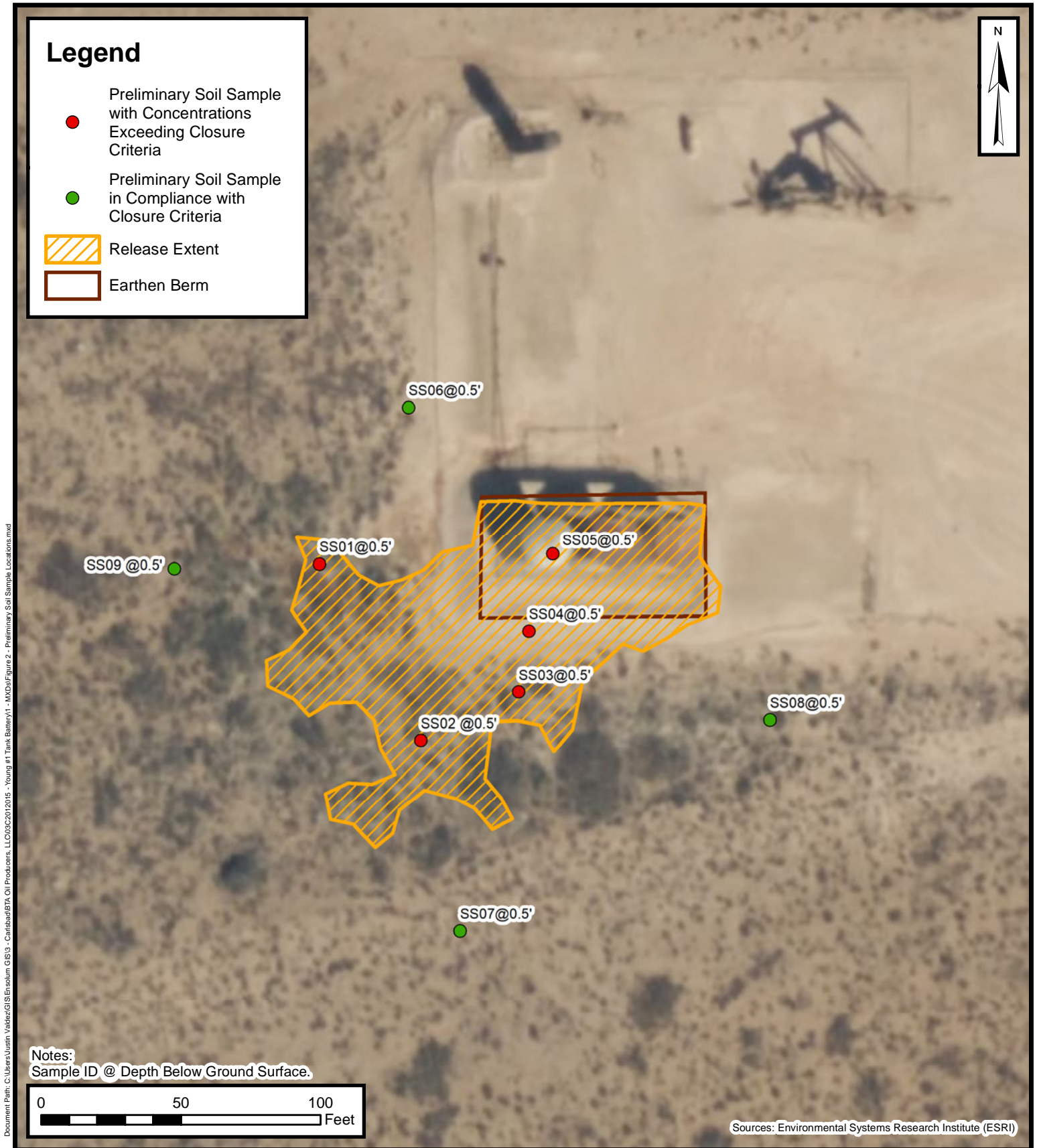


Site Receptor Map

BTA Oil Producers, LLC
Young #1 Tank Battery
nAPP2231476257
Unit A, Section 11, T18S, R32E
Lea County, New Mexico

FIGURE
1

ENSOLUM
Environmental, Engineering and
Hydrogeologic Consultants



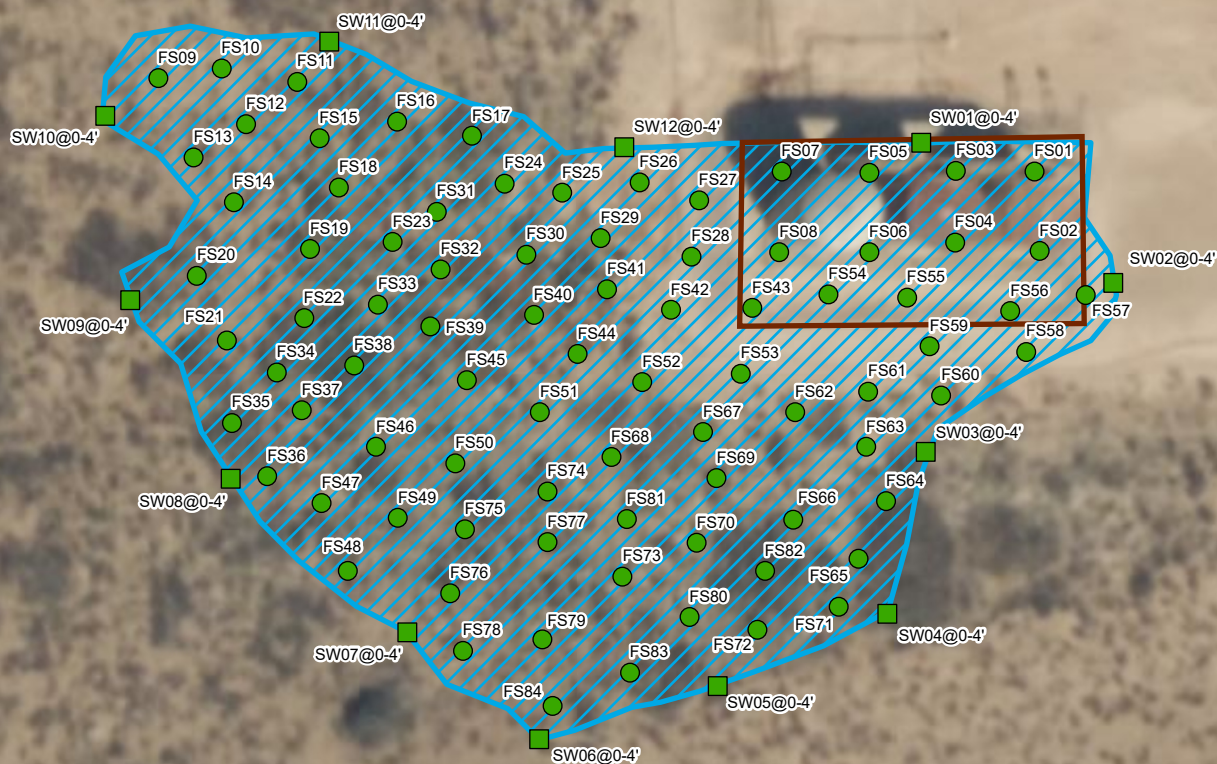
Preliminary Soil Sample Locations

BTA Oil Producers, LLC
Young #1 Tank Battery
nAPP2231476257
Unit A, Section 11, T18S, R32E
Lea County, New Mexico

FIGURE
2

Legend

- Excavation Base Sample in Compliance with Closure Criteria
- Excavation Sidewall Sample in Compliance with Closure Criteria
- ▭ Earthen Berm
- ▨ Excavation Extent



Notes:
 Sample ID @ Depth Below Ground Surface.
 Grey text indicate sample was removed during excavation activities.

0 50 100
 Feet

Sources: Environmental Systems Research Institute (ESRI)



Excavation Soil Sample Locations

BTA Oil Producers, LLC
 Young #1 Tank Battery
 nAPP2231476257
 Section 11, T18S, R32E
 Lea County, New Mexico

FIGURE
3



TABLES



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 Young #1 Tank Battery
 BTA Oil Producers, LLC
 Lea County, New Mexico

Sample I.D.	Sample Date	Sample 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	1,000	2,500	10,000
Preliminary Soil Samples										
SS01	11/16/2022	0.5	111	2,760	22,400	64,400	13,700	64,400	78,100	48.0*
SS02	11/16/2022	0.5	32.5	1,710	10,000	33,300	6,060	33,300	39,360	48.0*
SS03	11/16/2022	0.5	63.2	1,510	10,900	24,200	4,370	24,200	28,570	32.0*
SS04	11/16/2022	0.5	91.0	1,980	12,600	60,000	11,900	60,000	71,900	192
SS05	11/16/2022	0.5	411	4,770	55,300	116,000	21,200	116,000	137,200	848
SS06	11/16/2022	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
SS07	11/16/2022	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS08	11/16/2022	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS09	11/16/2022	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
Excavation Floor Soil Samples										
FS01	12/01/2022	4	<0.002	<0.004	<50.0	<50.0	<50.0	<50.0	<50.0	27.8
FS02	12/01/2022	4	<0.001	<0.003	<49.9	<49.9	<49.9	<49.9	<49.9	55.5
FS03	12/01/2022	4	<0.001	<0.003	<49.9	<49.9	<49.9	<49.9	<49.9	696
FS04	12/01/2022	4	<0.002	<0.003	<50.0	<50.0	<50.0	<50.0	<50.0	570
FS05	12/01/2022	4	<0.002	<0.004	<50.0	<50.0	<50.0	<50.0	<50.0	932
FS06	12/01/2022	4	<0.002	<0.004	<50.0	<50.0	<50.0	<50.0	<50.0	183
FS07	12/12/2022	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS08	12/12/2022	4	<0.050	<0.300	<10.0	16.5	<10.0	16.5	16.5	512
FS09	12/12/2022	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS10	12/12/2022	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS11	12/12/2022	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS12	12/12/2022	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS13	12/12/2022	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS14	12/12/2022	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS15	12/12/2022	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS16	12/12/2022	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS17	12/12/2022	4	<0.050	<0.300	<10.0	48.8	16.4	48.8	65.2	32.0
FS18	12/12/2022	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS19	12/12/2022	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS20	12/12/2022	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS21	12/12/2022	4	<0.050	1.79	101	5,860	1,440	5,961	7,401	64.0
FS21A	12/22/2022	4.5	<0.050	<0.300	<10.0	26.6	<10.0	26.6	26.6	32.0



TABLE 1
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 Young #1 Tank Battery
 BTA Oil Producers, LLC
 Lea County, New Mexico

Sample I.D.	Sample Date	Sample 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	1,000	2,500	10,000
FS22	12/12/2022	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS23	12/12/2022	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS24	12/12/2022	4	<0.050	<0.300	<10.0	73.6	10.8	73.6	84.4	48.0
FS25	12/12/2022	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
FS26	12/12/2022	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS27	12/12/2022	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS28	12/12/2022	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS29	12/12/2022	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS30	12/12/2022	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS31	12/12/2022	4	<0.050	<0.300	<10.0	243	59.8	243	302.8	256
FS31A	02/06/2023	4.5	<0.050	<0.300	<10.0	26.5	<10.0	26.5	26.5	96.0
FS32	12/12/2022	4	<0.050	0.326	<10.0	312	65.6	312	378	320
FS32A	02/06/2023	4.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS33	12/12/2022	4	<0.050	<0.300	<10.0	41.5	15.8	41.5	57.3	192
FS34	12/12/2022	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS35	12/12/2022	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS36	12/12/2022	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
FS37	12/12/2022	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS38	12/12/2022	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS39	12/12/2022	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS40	12/12/2022	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS41	12/14/2022	4	<0.050	<0.300	<10.0	64.7	10.6	64.7	75.3	464
FS42	12/14/2022	4	<0.050	<0.300	<10.0	15.3	<10.0	15.3	15.3	32.0
FS43	12/14/2022	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS44	12/14/2022	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
FS45	12/14/2022	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
FS46	12/14/2022	4	<0.050	<0.300	<10.0	909	204	909	1,113	304
FS46A	02/06/2023	4.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS47	12/14/2022	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
FS48	12/14/2022	4	<0.050	2.75	134	1,280	192	1,414	1,606	<16.0
FS48A	12/22/2022	4.5	<0.050	<0.300	<10.0	31.0	<10.0	31.0	31.0	16.0
FS49	12/14/2022	4	<0.050	<0.300	<10.0	84.8	21.9	84.8	107	464
FS49A	02/06/2023	4.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0



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Sample I.D.	Sample Date	Sample 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	1,000	2,500	10,000
FS50	12/14/2022	4	<0.050	<0.300	<10.0	137	27.7	137	165	800
FS50A	02/06/2023	4.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
FS51	12/14/2022	4	<0.050	<0.300	<10.0	57.7	12.1	57.7	69.8	464
FS52	12/14/2022	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS53	12/14/2022	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS54	12/14/2022	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
FS55	12/14/2022	4	<0.050	<0.300	<10.0	69.9	11.3	69.9	81.2	32.0
FS56	12/14/2022	4	<0.050	<0.300	<10.0	983	249	983	1,232	320
FS56A	02/06/2023	4.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS57	12/14/2022	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
FS58	12/14/2022	4	<0.050	<0.300	<10.0	162	23.7	162	186	48.0
FS58A	02/06/2023	4.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS59	12/14/2022	4	<0.050	<0.300	<10.0	95.5	<10.0	95.5	95.5	464
FS60	12/14/2022	4	<0.050	<0.300	<10.0	77.2	<10.0	77.2	77.2	912
FS60A	02/06/2023	4.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS61	12/14/2022	4	<0.050	<0.300	<10.0	94.8	<10.0	94.8	94.8	208
FS62	12/14/2022	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
FS63	12/14/2022	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS64	12/14/2022	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS65	12/14/2022	4	<0.050	<0.300	<10.0	15.9	<10.0	15.9	15.9	32.0
FS66	12/14/2022	4	<0.050	<0.300	<10.0	1,090	337	1,090	1,427	336
FS66A	12/22/2022	4.5	<0.050	<0.300	<10.0	10.5	<10.0	10.5	10.5	48.0
FS67	12/14/2022	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS68	12/14/2022	4	<0.050	<0.300	17.9	766	138	784	922	48.0
FS68A	02/06/2023	4.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS69	12/14/2022	4	<0.050	<0.300	<10.0	186	32.7	186	219	416
FS69A	02/06/2023	4.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS70	12/14/2022	4	<0.050	<0.300	<10.0	58.4	<10.0	58.4	58.4	992
FS70A	02/06/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS71	12/14/2022	4	<0.050	<0.300	<10.0	116	20.9	116	136.9	240
FS71A	02/06/2023	4.5	<0.050	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS72	12/14/2022	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS73	12/14/2022	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 Young #1 Tank Battery
 BTA Oil Producers, LLC
 Lea County, New Mexico

Sample I.D.	Sample Date	Sample 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	1,000	2,500	10,000
FS74	12/14/2022	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS75	12/14/2022	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS76	12/14/2022	4	<0.050	<0.300	<10.0	875	303	875	1,178	272
FS76A	02/06/2023	4.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS77	12/14/2022	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS78	12/14/2022	4	<0.050	<0.300	<10.0	101	<10.0	101	101	32.0
FS78A	02/06/2023	4.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS79	12/14/2022	4	<0.050	<0.300	<10.0	105	<10.0	105	105	352
FS79A	02/06/2023	4.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS80	12/14/2022	4	<0.050	<0.300	<10.0	32.3	<10.0	32.3	32.3	864
FS80A	02/06/2023	4.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS81	12/14/2022	4	<0.050	<0.300	<10.0	186	26.1	186	212.1	384
FS81A	02/06/2023	4.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS82	12/14/2022	4	<0.050	<0.300	<10.0	77.0	<10.0	77.0	77.0	272
FS83	12/01/2022	4	<0.00198	<0.00396	<49.8	238	147	385	385	137
FS83A	02/06/2023	4.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS84	12/01/2022	4	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	32.0



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 Young #1 Tank Battery
 BTA Oil Producers, LLC
 Lea County, New Mexico

Sample I.D.	Sample Date	Sample 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	1,000	2,500	10,000
Excavation Sidewall Soil Samples										
SW01	12/02/2022	0 - 4	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	71.8*
SW02	12/02/2022	0 - 4	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	28.4*
SW03	12/09/2022	0 - 4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0*
SW04	12/09/2022	0 - 4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0*
SW05	12/09/2022	0 - 4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0*
SW06	12/09/2022	0 - 4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0*
SW07	12/09/2022	0 - 4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0*
SW08	12/02/2022	0 - 4	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	20.3*
SW09	12/02/2022	0 - 4	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	11.3*
SW10	12/02/2022	0 - 4	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	15.9*
SW11	12/09/2022	0 - 4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0*
SW12	12/09/2022	0 - 4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0*

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or reclamation standard where applicable.

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

* indicates sample was collected in area to be reclaimed after remediation is complete; reclamation requirement for chloride in the top 4 feet is 600 mg/kg and total TPH is 100 mg/kg.

Gray text represents samples that have been excavated.



APPENDIX A

Referenced Well Records

Lea County, New Mexico
Latitude 32°45'12", Longitude 103°45'50" NAD27
Land-surface elevation 3,800 feet above NAVD88
The depth of the well is 100 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 formats

[Table of data](#)

[Tab-separated data](#)

[Graph of data](#)

[Reselect period](#)

Date	Time	Water-level date-time accuracy	Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	Status	Method of measurement	Measuring agency	Source of measurement	Water-level approval status
1991-09-06		D	62610		3710.28	NGVD29	P	Z			A
1991-09-06		D	62611		3711.85	NAVD88	P	Z			A
1991-09-06		D	72019	88.15			P	Z			A
1991-09-14		D	62610		3711.28	NGVD29	P	Z			A
1991-09-14		D	62611		3712.85	NAVD88	P	Z			A
1991-09-14		D	72019	87.15			P	Z			A
1991-09-20		D	62610		3711.78	NGVD29	P	Z			A
1991-09-20		D	62611		3713.35	NAVD88	P	Z			A
1991-09-20		D	72019	86.65			P	Z			A
1991-09-25		D	62610		3712.27	NGVD29	P	Z			A
1991-09-25		D	62611		3713.84	NAVD88	P	Z			A
1991-09-25		D	72019	86.16			P	Z			A
1991-09-30		D	62610		3712.76	NGVD29	P	Z			A
1991-09-30		D	62611		3714.33	NAVD88	P	Z			A
1991-09-30		D	72019	85.67			P	Z			A
1991-10-17		D	62610		3713.84	NGVD29	1	Z			A
1991-10-17		D	62611		3715.41	NAVD88	1	Z			A
Released to Imaging: 3/20/2023 10:00:44 AM		D	72019	84.59			1	Z			A



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
	CP 00566 POD1	4	4	1	04	18S	32E	614960	3627280*

Driller License:	46	Driller Company:	ABBOTT BROTHERS COMPANY	
Driller Name:	ABBOTT, MURRELL			
Drill Start Date:	06/01/1977	Drill Finish Date:	06/03/1977	Plug Date:
Log File Date:	06/13/1977	PCW Rcv Date:		Source: Shallow
Pump Type:		Pipe Discharge Size:		Estimated Yield:
Casing Size:	6.63	Depth Well:	133 feet	Depth Water: 65 feet

Water Bearing Stratifications:	Top	Bottom	Description
	65	133	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	65	133

*UTM location was derived from PLSS - see Help

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.

11/23/22 9:27 AM

POINT OF DIVERSION SUMMARY



APPENDIX B

Photographic Log

**Photographic Log**

BTA Oil Producers, LLC

Young #1 Tank Battery

Incident Number nAPP2231476257



Photograph: 1 Date: 11/16/2022
 Description: Photo of Site during initial assessment.
 View: Northeast



Photograph: 2 Date: 11/16/2022
 Description: Photo of Site during initial assessment.
 View: Southwest



Photograph: 3 Date: 12/12/2022
 Description: Photo of Site during excavation.
 View: Southwest



Photograph: 4 Date: 2/6/2023
 Description: Additional soil sampling activities.
 View: Northeast



APPENDIX C

Laboratory Analytical Reports



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

November 29, 2022

HADLIE GREEN

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: YOUNG #1

Enclosed are the results of analyses for samples received by the laboratory on 11/21/22 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/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 11/21/2022
Reported: 11/29/2022
Project Name: YOUNG #1
Project Number: NONE GIVEN
Project Location: BTA

Sampling Date: 11/16/2022
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SS01 (H225477-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	111	5.00	11/23/2022	ND	2.02	101	2.00	0.726	
Toluene*	947	5.00	11/23/2022	ND	2.17	108	2.00	0.705	
Ethylbenzene*	536	5.00	11/23/2022	ND	2.11	106	2.00	1.57	
Total Xylenes*	1170	15.0	11/23/2022	ND	6.43	107	6.00	2.47	
Total BTX	2760	30.0	11/23/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/22/2022	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	22400	100	11/22/2022	ND	203	102	200	3.02	
DRO >C10-C28*	64400	100	11/22/2022	ND	215	108	200	3.73	
EXT DRO >C28-C36	13700	100	11/22/2022	ND					

Surrogate: 1-Chlorooctane 901 % 45.3-161

Surrogate: 1-Chlorooctadecane 1370 % 46.3-178

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 11/21/2022
Reported: 11/29/2022
Project Name: YOUNG #1
Project Number: NONE GIVEN
Project Location: BTA

Sampling Date: 11/16/2022
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SS02 (H225477-02)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	32.5	5.00	11/23/2022	ND	2.02	101	2.00	0.726	
Toluene*	481	5.00	11/23/2022	ND	2.17	108	2.00	0.705	
Ethylbenzene*	364	5.00	11/23/2022	ND	2.11	106	2.00	1.57	
Total Xylenes*	832	15.0	11/23/2022	ND	6.43	107	6.00	2.47	
Total BTEX	1710	30.0	11/23/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/22/2022	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	10000	100	11/22/2022	ND	203	102	200	3.02		
DRO >C10-C28*	33300	100	11/22/2022	ND	215	108	200	3.73		
EXT DRO >C28-C36	6060	100	11/22/2022	ND						

Surrogate: 1-Chlorooctane 527 % 45.3-161

Surrogate: 1-Chlorooctadecane 656 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 11/21/2022
Reported: 11/29/2022
Project Name: YOUNG #1
Project Number: NONE GIVEN
Project Location: BTA

Sampling Date: 11/16/2022
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SS03 (H225477-03)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	63.2	5.00	11/23/2022	ND	2.02	101	2.00	0.726	
Toluene*	503	5.00	11/23/2022	ND	2.17	108	2.00	0.705	
Ethylbenzene*	292	5.00	11/23/2022	ND	2.11	106	2.00	1.57	
Total Xylenes*	656	15.0	11/23/2022	ND	6.43	107	6.00	2.47	
Total BTEX	1510	30.0	11/23/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/22/2022	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	10900	100	11/22/2022	ND	203	102	200	3.02	
DRO >C10-C28*	24200	100	11/22/2022	ND	215	108	200	3.73	
EXT DRO >C28-C36	4370	100	11/22/2022	ND					

Surrogate: 1-Chlorooctane 457 % 45.3-161

Surrogate: 1-Chlorooctadecane 470 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 11/21/2022
Reported: 11/29/2022
Project Name: YOUNG #1
Project Number: NONE GIVEN
Project Location: BTA

Sampling Date: 11/16/2022
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SS04 (H225477-04)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	91.1	5.00	11/23/2022	ND	2.02	101	2.00	0.726	
Toluene*	684	5.00	11/23/2022	ND	2.17	108	2.00	0.705	
Ethylbenzene*	383	5.00	11/23/2022	ND	2.11	106	2.00	1.57	
Total Xylenes*	823	15.0	11/23/2022	ND	6.43	107	6.00	2.47	
Total BTEX	1980	30.0	11/23/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	11/22/2022	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	12600	100	11/22/2022	ND	203	102	200	3.02	
DRO >C10-C28*	60000	100	11/22/2022	ND	215	108	200	3.73	
EXT DRO >C28-C36	11900	100	11/22/2022	ND					

Surrogate: 1-Chlorooctane 676 % 45.3-161

Surrogate: 1-Chlorooctadecane 1250 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 11/21/2022
Reported: 11/29/2022
Project Name: YOUNG #1
Project Number: NONE GIVEN
Project Location: BTA

Sampling Date: 11/16/2022
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SS05 (H225477-05)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	411	20.0	11/23/2022	ND	2.02	101	2.00	0.726	
Toluene*	2000	20.0	11/23/2022	ND	2.17	108	2.00	0.705	
Ethylbenzene*	865	20.0	11/23/2022	ND	2.11	106	2.00	1.57	
Total Xylenes*	1490	60.0	11/23/2022	ND	6.43	107	6.00	2.47	
Total BTEX	4770	120	11/23/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.8 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	848	16.0	11/22/2022	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	55300	100	11/22/2022	ND	203	102	200	3.02	
DRO >C10-C28*	116000	100	11/22/2022	ND	215	108	200	3.73	
EXT DRO >C28-C36	21200	100	11/22/2022	ND					

Surrogate: 1-Chlorooctane 1780 % 45.3-161

Surrogate: 1-Chlorooctadecane 2360 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 11/21/2022
Reported: 11/29/2022
Project Name: YOUNG #1
Project Number: NONE GIVEN
Project Location: BTA

Sampling Date: 11/16/2022
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SS06 (H225477-06)

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	11/29/2022	ND	1.77	88.5	2.00	10.8		
Toluene*	<0.050	0.050	11/29/2022	ND	1.87	93.7	2.00	9.79		
Ethylbenzene*	<0.050	0.050	11/29/2022	ND	1.83	91.7	2.00	10.7		
Total Xylenes*	<0.150	0.150	11/29/2022	ND	5.59	93.1	6.00	9.77		
Total BTEx	<0.300	0.300	11/29/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	11/22/2022	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2022	ND	203	102	200	3.02	
DRO >C10-C28*	<10.0	10.0	11/22/2022	ND	215	108	200	3.73	
EXT DRO >C28-C36	<10.0	10.0	11/22/2022	ND					

Surrogate: 1-Chlorooctane 94.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 92.2 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 11/21/2022
Reported: 11/29/2022
Project Name: YOUNG #1
Project Number: NONE GIVEN
Project Location: BTA

Sampling Date: 11/16/2022
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SS07 (H225477-07)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/22/2022	ND	1.77	88.5	2.00	10.8		
Toluene*	0.078	0.050	11/22/2022	ND	1.87	93.7	2.00	9.79		
Ethylbenzene*	<0.050	0.050	11/22/2022	ND	1.83	91.7	2.00	10.7		
Total Xylenes*	<0.150	0.150	11/22/2022	ND	5.59	93.1	6.00	9.77		
Total BTEX	<0.300	0.300	11/22/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 87.2 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	11/22/2022	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2022	ND	203	102	200	3.02	
DRO >C10-C28*	<10.0	10.0	11/22/2022	ND	215	108	200	3.73	
EXT DRO >C28-C36	<10.0	10.0	11/22/2022	ND					

Surrogate: 1-Chlorooctane 85.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 85.9 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 11/21/2022
Reported: 11/29/2022
Project Name: YOUNG #1
Project Number: NONE GIVEN
Project Location: BTA

Sampling Date: 11/16/2022
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SS08 (H225477-08)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/22/2022	ND	1.77	88.5	2.00	10.8		
Toluene*	<0.050	0.050	11/22/2022	ND	1.87	93.7	2.00	9.79		
Ethylbenzene*	<0.050	0.050	11/22/2022	ND	1.83	91.7	2.00	10.7		
Total Xylenes*	<0.150	0.150	11/22/2022	ND	5.59	93.1	6.00	9.77		
Total BTEx	<0.300	0.300	11/22/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 86.9 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/22/2022	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2022	ND	203	102	200	3.02	
DRO >C10-C28*	<10.0	10.0	11/22/2022	ND	215	108	200	3.73	
EXT DRO >C28-C36	<10.0	10.0	11/22/2022	ND					

Surrogate: 1-Chlorooctane 85.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 85.9 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 11/21/2022
Reported: 11/29/2022
Project Name: YOUNG #1
Project Number: NONE GIVEN
Project Location: BTA

Sampling Date: 11/16/2022
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SS09 (H225477-09)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/22/2022	ND	1.77	88.5	2.00	10.8		
Toluene*	<0.050	0.050	11/22/2022	ND	1.87	93.7	2.00	9.79		
Ethylbenzene*	<0.050	0.050	11/22/2022	ND	1.83	91.7	2.00	10.7		
Total Xylenes*	<0.150	0.150	11/22/2022	ND	5.59	93.1	6.00	9.77		
Total BTEx	<0.300	0.300	11/22/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 88.8 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/22/2022	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2022	ND	203	102	200	3.02	
DRO >C10-C28*	<10.0	10.0	11/22/2022	ND	215	108	200	3.73	
EXT DRO >C28-C36	<10.0	10.0	11/22/2022	ND					

Surrogate: 1-Chlorooctane 92.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 93.5 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Ensolvum LLC</u>		P.O. #:		BILL TO		ANALYSIS REQUEST													
Project Manager: <u>Hadley Green</u>		Company: <u>BTA Oil</u>																	
Address: <u>8330 LBJ Freeway, Ste. B830</u>		Attn: <u>Bob Hall</u>																	
City: <u>Dallas</u>		Address: <u>104 S Leas St.</u>																	
State: <u>TX</u> Zip: <u>75243</u>																			
Phone #: <u>432-557-8895</u> Fax #:		City: <u>Midland</u>																	
Project #: _____		State: <u>TX</u> Zip: <u>79701</u>																	
Project Name: <u>Young #1</u>		Phone #: <u>432-312-2203</u>																	
Project Location: _____		Fax #:																	
Sampler Name: <u>Connor Whitman</u>																			
FOR LAB USE ONLY																			
Lab I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX				PRESERV.		SAMPLING							
Sample I.D.																			
1 <u>HA25477</u>		1		1		GROUNDWATER						DATE		TIME		BTEX			
2 <u>SS01</u>		1		1		WASTEWATER						11/16/22		9:30		TPH			
3 <u>SS02</u>		1		1		SOIL								9:35					
4 <u>SS03</u>		1		1		OIL								9:40					
5 <u>SS04</u>		1		1		SLUDGE								9:45					
6 <u>SS05</u>		1		1		OTHER :								10:30					
7 <u>SS06</u>		1		1		ACID/BASE:								10:55					
8 <u>SS07</u>		1		1		ICE / COOL								11:05					
9 <u>SS08</u>		1		1		OTHER :								11:10					
10 <u>SS09</u>		1		1										11:15		Chloride			
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Relinquished By: <u>Carlin</u>		Date: <u>11/16/22</u>		Received By: <u>Booker</u>		REMARKS: <u>Hydrogen sulfide</u>													
Relinquished By: _____		Date: _____		Received By: _____		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:													
Delivered By: (Circle One)		Observed Temp. °C: <u>-0.3</u>		Sample Condition		CHECKED BY: <u>(initials)</u>		Turnaround Time: <input type="checkbox"/> Standard <input type="checkbox"/> Rush <input type="checkbox"/> Bacteria (only) <input type="checkbox"/> Sample Condition											
Sampler - UPS - Bus - Other:		Corrected Temp. °C: <u>0.9</u>		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				Thermometer ID #113 <input type="checkbox"/> Cool <input type="checkbox"/> Intact <input type="checkbox"/> Observed Temp. °C											
				<input type="checkbox"/> Yes <input type="checkbox"/> No				Correction Factor -0.5°C <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Corrected Temp. °C											

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

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

December 20, 2022

HADLIE GREEN

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: YOUNG #1

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

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

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

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

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

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

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220Project: YOUNG #1
Project Number: 03C2012015
Project Manager: HADLIE GREEN
Fax To:Reported:
20-Dec-22 15:51

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SW 03 0-4'	H225840-01	Soil	09-Dec-22 09:35	12-Dec-22 12:07
SW 04 0-4'	H225840-02	Soil	09-Dec-22 09:40	12-Dec-22 12:07
SW 05 0-4'	H225840-03	Soil	09-Dec-22 09:45	12-Dec-22 12:07
SW 06 0-4'	H225840-04	Soil	09-Dec-22 09:50	12-Dec-22 12:07
SW 07 0-4'	H225840-05	Soil	09-Dec-22 09:55	12-Dec-22 12:07
SW 11 0-4'	H225840-06	Soil	09-Dec-22 10:00	12-Dec-22 12:07
SW 12 0-4'	H225840-07	Soil	09-Dec-22 10:05	12-Dec-22 12:07

12/20/22 - Client changed sample IDs (see COC). This is the revised report and will replace the one sent on 12/15/22.

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: YOUNG #1
Project Number: 03C2012015
Project Manager: HADLIE GREEN
Fax To:

Reported:
20-Dec-22 15:51

SW 03 0-4'
H225840-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	16.0		16.0	mg/kg	4	2121301	AC	13-Dec-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2121223	JH/	12-Dec-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2121223	JH/	12-Dec-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2121223	JH/	12-Dec-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2121223	JH/	12-Dec-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2121223	JH/	12-Dec-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			109 %	69.9-140		2121223	JH/	12-Dec-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2121230	MS	13-Dec-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2121230	MS	13-Dec-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2121230	MS	13-Dec-22	8015B	

Surrogate: 1-Chlorooctane			87.8 %	45.3-161		2121230	MS	13-Dec-22	8015B	
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Surrogate: 1-Chlorooctadecane			93.2 %	46.3-178		2121230	MS	13-Dec-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: YOUNG #1
Project Number: 03C2012015
Project Manager: HADLIE GREEN
Fax To:

Reported:
20-Dec-22 15:51

SW 04 0-4'
H225840-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	80.0		16.0	mg/kg	4	2121306	GM	15-Dec-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2121234	JH	13-Dec-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2121234	JH	13-Dec-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2121234	JH	13-Dec-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2121234	JH	13-Dec-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2121234	JH	13-Dec-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			105 %	69.9-140		2121234	JH	13-Dec-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2121230	MS	13-Dec-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2121230	MS	13-Dec-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2121230	MS	13-Dec-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			92.9 %	45.3-161		2121230	MS	13-Dec-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			98.6 %	46.3-178		2121230	MS	13-Dec-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: YOUNG #1
Project Number: 03C2012015
Project Manager: HADLIE GREEN
Fax To:

Reported:
20-Dec-22 15:51

SW 05 0-4'
H225840-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	48.0		16.0	mg/kg	4	2121306	GM	15-Dec-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2121234	JH	13-Dec-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2121234	JH	13-Dec-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2121234	JH	13-Dec-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2121234	JH	13-Dec-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2121234	JH	13-Dec-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		102 %		69.9-140		2121234	JH	13-Dec-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2121230	MS	13-Dec-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2121230	MS	13-Dec-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2121230	MS	13-Dec-22	8015B	

Surrogate: 1-Chlorooctane		87.2 %		45.3-161		2121230	MS	13-Dec-22	8015B	
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Surrogate: 1-Chlorooctadecane		94.7 %		46.3-178		2121230	MS	13-Dec-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: YOUNG #1
Project Number: 03C2012015
Project Manager: HADLIE GREEN
Fax To:

Reported:
20-Dec-22 15:51

SW 06 0-4'
H225840-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	16.0		16.0	mg/kg	4	2121306	GM	15-Dec-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2121234	JH	13-Dec-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2121234	JH	13-Dec-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2121234	JH	13-Dec-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2121234	JH	13-Dec-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2121234	JH	13-Dec-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			101 %		69.9-140	2121234	JH	13-Dec-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2121230	MS	13-Dec-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2121230	MS	13-Dec-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2121230	MS	13-Dec-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			79.3 %		45.3-161	2121230	MS	13-Dec-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			84.6 %		46.3-178	2121230	MS	13-Dec-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: YOUNG #1
Project Number: 03C2012015
Project Manager: HADLIE GREEN
Fax To:

Reported:
20-Dec-22 15:51

SW 07 0-4'
H225840-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	32.0		16.0	mg/kg	4	2121306	GM	15-Dec-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2121234	JH	13-Dec-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2121234	JH	13-Dec-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2121234	JH	13-Dec-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2121234	JH	13-Dec-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2121234	JH	13-Dec-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			99.8 %		69.9-140	2121234	JH	13-Dec-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2121230	MS	13-Dec-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2121230	MS	13-Dec-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2121230	MS	13-Dec-22	8015B	

Surrogate: 1-Chlorooctane			99.4 %		45.3-161	2121230	MS	13-Dec-22	8015B	
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Surrogate: 1-Chlorooctadecane			107 %		46.3-178	2121230	MS	13-Dec-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: YOUNG #1
Project Number: 03C2012015
Project Manager: HADLIE GREEN
Fax To:

Reported:
20-Dec-22 15:51

SW 11 0-4'
H225840-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	32.0		16.0	mg/kg	4	2121306	GM	15-Dec-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2121234	JH	13-Dec-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2121234	JH	13-Dec-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2121234	JH	13-Dec-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2121234	JH	13-Dec-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2121234	JH	13-Dec-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			99.3 %		69.9-140	2121234	JH	13-Dec-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2121230	MS	13-Dec-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2121230	MS	13-Dec-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2121230	MS	13-Dec-22	8015B	

Surrogate: 1-Chlorooctane			102 %		45.3-161	2121230	MS	13-Dec-22	8015B	
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Surrogate: 1-Chlorooctadecane			111 %		46.3-178	2121230	MS	13-Dec-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: YOUNG #1
Project Number: 03C2012015
Project Manager: HADLIE GREEN
Fax To:

Reported:
20-Dec-22 15:51

SW 12 0-4'
H225840-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	48.0		16.0	mg/kg	4	2121306	GM	15-Dec-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2121234	JH	13-Dec-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2121234	JH	13-Dec-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2121234	JH	13-Dec-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2121234	JH	13-Dec-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2121234	JH	13-Dec-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			100 %		69.9-140	2121234	JH	13-Dec-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2121230	MS	13-Dec-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2121230	MS	13-Dec-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2121230	MS	13-Dec-22	8015B	

Surrogate: 1-Chlorooctane			80.8 %		45.3-161	2121230	MS	13-Dec-22	8015B	
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Surrogate: 1-Chlorooctadecane			84.5 %		46.3-178	2121230	MS	13-Dec-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: YOUNG #1
Project Number: 03C2012015
Project Manager: HADLIE GREEN
Fax To:

Reported:
20-Dec-22 15:51

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 2121301 - 1:4 DI Water**Blank (2121301-BLK1)**

Prepared & Analyzed: 13-Dec-22

Chloride	ND	16.0	mg/kg
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LCS (2121301-BS1)

Prepared & Analyzed: 13-Dec-22

Chloride	400	16.0	mg/kg	400	100	80-120
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LCS Dup (2121301-BSD1)

Prepared & Analyzed: 13-Dec-22

Chloride	432	16.0	mg/kg	400	108	80-120	7.69	20
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Batch 2121306 - 1:4 DI Water**Blank (2121306-BLK1)**

Prepared: 13-Dec-22 Analyzed: 15-Dec-22

Chloride	ND	16.0	mg/kg
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LCS (2121306-BS1)

Prepared: 13-Dec-22 Analyzed: 15-Dec-22

Chloride	416	16.0	mg/kg	400	104	80-120
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LCS Dup (2121306-BSD1)

Prepared: 13-Dec-22 Analyzed: 15-Dec-22

Chloride	432	16.0	mg/kg	400	108	80-120	3.77	20
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: YOUNG #1
Project Number: 03C2012015
Project Manager: HADLIE GREEN
Fax To:

Reported:
20-Dec-22 15:51

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2121223 - Volatiles**Blank (2121223-BLK1)**

Prepared & Analyzed: 12-Dec-22

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)	0.0548		mg/kg	0.0500		110	69.9-140			

LCS (2121223-BS1)

Prepared & Analyzed: 12-Dec-22

Benzene	2.04	0.050	mg/kg	2.00		102	83.4-122			
Toluene	2.04	0.050	mg/kg	2.00		102	84.2-126			
Ethylbenzene	2.02	0.050	mg/kg	2.00		101	84.2-121			
m,p-Xylene	4.24	0.100	mg/kg	4.00		106	89.9-126			
o-Xylene	1.96	0.050	mg/kg	2.00		98.1	84.3-123			
Total Xylenes	6.20	0.150	mg/kg	6.00		103	89.1-124			
Surrogate: 4-Bromofluorobenzene (PID)	0.0538		mg/kg	0.0500		108	69.9-140			

LCS Dup (2121223-BS1)

Prepared & Analyzed: 12-Dec-22

Benzene	2.17	0.050	mg/kg	2.00		109	83.4-122	6.42	12.6	
Toluene	2.17	0.050	mg/kg	2.00		109	84.2-126	6.18	13.3	
Ethylbenzene	2.17	0.050	mg/kg	2.00		108	84.2-121	6.86	13.9	
m,p-Xylene	4.58	0.100	mg/kg	4.00		114	89.9-126	7.64	13.6	
o-Xylene	2.16	0.050	mg/kg	2.00		108	84.3-123	9.58	14.1	
Total Xylenes	6.74	0.150	mg/kg	6.00		112	89.1-124	8.26	13.4	
Surrogate: 4-Bromofluorobenzene (PID)	0.0532		mg/kg	0.0500		106	69.9-140			

Batch 2121234 - Volatiles**Blank (2121234-BLK1)**

Prepared: 12-Dec-22 Analyzed: 13-Dec-22

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: YOUNG #1
Project Number: 03C2012015
Project Manager: HADLIE GREEN
Fax To:

Reported:
20-Dec-22 15:51

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2121234 - Volatiles**Blank (2121234-BLK1)**

Prepared: 12-Dec-22 Analyzed: 13-Dec-22

Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0519		mg/kg	0.0500		104	69.9-140			

LCS (2121234-BS1)

Prepared: 12-Dec-22 Analyzed: 13-Dec-22

Benzene	2.08	0.050	mg/kg	2.00		104	83.4-122			
Toluene	2.16	0.050	mg/kg	2.00		108	84.2-126			
Ethylbenzene	2.11	0.050	mg/kg	2.00		105	84.2-121			
m,p-Xylene	4.43	0.100	mg/kg	4.00		111	89.9-126			
o-Xylene	2.11	0.050	mg/kg	2.00		105	84.3-123			
Total Xylenes	6.54	0.150	mg/kg	6.00		109	89.1-124			
Surrogate: 4-Bromofluorobenzene (PID)	0.0491		mg/kg	0.0500		98.3	69.9-140			

LCS Dup (2121234-BS1)

Prepared: 12-Dec-22 Analyzed: 13-Dec-22

Benzene	2.06	0.050	mg/kg	2.00		103	83.4-122	0.787	12.6	
Toluene	2.13	0.050	mg/kg	2.00		106	84.2-126	1.48	13.3	
Ethylbenzene	2.09	0.050	mg/kg	2.00		104	84.2-121	0.924	13.9	
m,p-Xylene	4.39	0.100	mg/kg	4.00		110	89.9-126	1.08	13.6	
o-Xylene	2.10	0.050	mg/kg	2.00		105	84.3-123	0.190	14.1	
Total Xylenes	6.49	0.150	mg/kg	6.00		108	89.1-124	0.793	13.4	
Surrogate: 4-Bromofluorobenzene (PID)	0.0487		mg/kg	0.0500		97.5	69.9-140			

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: YOUNG #1
Project Number: 03C2012015
Project Manager: HADLIE GREEN
Fax To:

Reported:
20-Dec-22 15:51

Petroleum Hydrocarbons by GC FID - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2121230 - General Prep - Organics**Blank (2121230-BLK1)**

Prepared: 12-Dec-22 Analyzed: 13-Dec-22

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	49.2		mg/kg	50.0		98.3	45.3-161			
Surrogate: 1-Chlorooctadecane	52.9		mg/kg	50.0		106	46.3-178			

LCS (2121230-BS1)

Prepared: 12-Dec-22 Analyzed: 13-Dec-22

GRO C6-C10	222	10.0	mg/kg	200		111	76.8-124			
DRO >C10-C28	199	10.0	mg/kg	200		99.5	74.9-127			
Total TPH C6-C28	421	10.0	mg/kg	400		105	77.5-124			
Surrogate: 1-Chlorooctane	57.6		mg/kg	50.0		115	45.3-161			
Surrogate: 1-Chlorooctadecane	66.2		mg/kg	50.0		132	46.3-178			

LCS Dup (2121230-BS1)

Prepared: 12-Dec-22 Analyzed: 13-Dec-22

GRO C6-C10	222	10.0	mg/kg	200		111	76.8-124	0.145	17.2	
DRO >C10-C28	201	10.0	mg/kg	200		100	74.9-127	0.927	18.6	
Total TPH C6-C28	423	10.0	mg/kg	400		106	77.5-124	0.515	17.6	
Surrogate: 1-Chlorooctane	59.4		mg/kg	50.0		119	45.3-161			
Surrogate: 1-Chlorooctadecane	68.7		mg/kg	50.0		137	46.3-178			

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC		P.O. #:		ANALYSIS REQUEST	
Project Manager: Heddie Green		Company: BTA Oil			
Address: 601 N. Marland St. STE 400		Attn: Bob Hill			
City: Midland State: TX Zip: 79701		Address: 104 S. Peas St.			
Phone #: 432-557-4498 Fax #:		City: Midland			
Project #: 072012015 Project Owner:		State: TX Zip: 79701			
Project Location: 32,7672-103,7298		Phone #: 432-312-2203			
Sampler Name: Jesse Parker		Fax #:			
FOR LAB USE ONLY					
Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	
H225840					
1	Swab 03	0-4'			
2	Swab 04				
3	Swab 05				
4	Swab 06				
5	Swab 07				
6	Swab 11				
7	Swab 12				
	12/29/22				
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Relinquished By:	Date: 12-12-22	Received By:	Date: 12-12-22	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Date: 12-12-22	Received By:	Date: 12-12-22	All Results are emailed. Please provide Email address:	
REMARKS:					
Delivered By: (Circle One)	Observed Temp.: °C 1.9	Sample Condition	CHECKED BY: (Initials)	Turnaround Time:	Standard
Sampler - UPS - Bus - Other:	Corrected Temp.: °C 1.3	Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Y	Thermometer ID #113	Rush <input type="checkbox"/>
Bacteria (only) Sample Condition					
Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No					
Corrected Temp.: °C					

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

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

December 21, 2022

HADLIE GREEN

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: YOUNG #1

Enclosed are the results of analyses for samples received by the laboratory on 12/15/22 10:40.

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

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

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

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

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

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Project: YOUNG #1
Project Number: 03C2012015
Project Manager: HADLIE GREEN
Fax To:

Reported:
21-Dec-22 12:39

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FS 41	H225917-01	Soil	14-Dec-22 09:15	15-Dec-22 10:40
FS 42	H225917-02	Soil	14-Dec-22 09:20	15-Dec-22 10:40
FS 43	H225917-03	Soil	14-Dec-22 09:25	15-Dec-22 10:40
FS 44	H225917-04	Soil	14-Dec-22 09:30	15-Dec-22 10:40
FS 45	H225917-05	Soil	14-Dec-22 09:35	15-Dec-22 10:40
FS 46	H225917-06	Soil	14-Dec-22 09:40	15-Dec-22 10:40
FS 47	H225917-07	Soil	14-Dec-22 09:45	15-Dec-22 10:40
FS 48	H225917-08	Soil	14-Dec-22 09:50	15-Dec-22 10:40
FS 49	H225917-09	Soil	14-Dec-22 09:55	15-Dec-22 10:40
FS 50	H225917-10	Soil	14-Dec-22 10:00	15-Dec-22 10:40
FS 51	H225917-11	Soil	14-Dec-22 10:05	15-Dec-22 10:40
FS 52	H225917-12	Soil	14-Dec-22 10:10	15-Dec-22 10:40
FS 53	H225917-13	Soil	14-Dec-22 10:15	15-Dec-22 10:40
FS 54	H225917-14	Soil	14-Dec-22 10:20	15-Dec-22 10:40
FS 55	H225917-15	Soil	14-Dec-22 10:25	15-Dec-22 10:40
FS 56	H225917-16	Soil	14-Dec-22 10:30	15-Dec-22 10:40
FS 57	H225917-17	Soil	14-Dec-22 10:35	15-Dec-22 10:40
FS 58	H225917-18	Soil	14-Dec-22 10:40	15-Dec-22 10:40
FS 59	H225917-19	Soil	14-Dec-22 10:45	15-Dec-22 10:40
FS 60	H225917-20	Soil	14-Dec-22 10:50	15-Dec-22 10:40
FS 61	H225917-21	Soil	14-Dec-22 10:55	15-Dec-22 10:40
FS 62	H225917-22	Soil	14-Dec-22 11:00	15-Dec-22 10:40
FS 63	H225917-23	Soil	14-Dec-22 11:05	15-Dec-22 10:40
FS 64	H225917-24	Soil	14-Dec-22 11:10	15-Dec-22 10:40
FS 65	H225917-25	Soil	14-Dec-22 11:20	15-Dec-22 10:40
FS 66	H225917-26	Soil	14-Dec-22 11:30	15-Dec-22 10:40
FS 67	H225917-27	Soil	14-Dec-22 11:35	15-Dec-22 10:40

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: YOUNG #1
Project Number: 03C2012015
Project Manager: HADLIE GREEN
Fax To:

Reported:
21-Dec-22 12:39

FS 68	H225917-28	Soil	14-Dec-22 11:40	15-Dec-22 10:40
FS 69	H225917-29	Soil	14-Dec-22 11:45	15-Dec-22 10:40
FS 70	H225917-30	Soil	14-Dec-22 11:50	15-Dec-22 10:40
FS 71	H225917-31	Soil	14-Dec-22 11:55	15-Dec-22 10:40
FS 72	H225917-32	Soil	14-Dec-22 12:00	15-Dec-22 10:40
FS 73	H225917-33	Soil	14-Dec-22 12:05	15-Dec-22 10:40
FS 74	H225917-34	Soil	14-Dec-22 12:10	15-Dec-22 10:40
FS 75	H225917-35	Soil	14-Dec-22 12:20	15-Dec-22 10:40
FS 76	H225917-36	Soil	14-Dec-22 12:25	15-Dec-22 10:40
FS 77	H225917-37	Soil	14-Dec-22 12:30	15-Dec-22 10:40
FS 78	H225917-38	Soil	14-Dec-22 12:40	15-Dec-22 10:40
FS 79	H225917-39	Soil	14-Dec-22 12:45	15-Dec-22 10:40
FS 80	H225917-40	Soil	14-Dec-22 12:50	15-Dec-22 10:40
FS 81	H225917-41	Soil	14-Dec-22 12:55	15-Dec-22 10:40
FS 82	H225917-42	Soil	14-Dec-22 13:10	15-Dec-22 10:40

12/21/22 - Client requested sample ID changes (see COC). This is the revised report and will replace the one sent on 12/20/22.

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: YOUNG #1
Project Number: 03C2012015
Project Manager: HADLIE GREEN
Fax To:

Reported:
21-Dec-22 12:39

FS 41
H225917-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	464		16.0	mg/kg	4	2121635	GM	16-Dec-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	2121544	MS	17-Dec-22	8021B	
Toluene*	<0.050	0.050	mg/kg	50	2121544	MS	17-Dec-22	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	2121544	MS	17-Dec-22	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	2121544	MS	17-Dec-22	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	2121544	MS	17-Dec-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		110 %		69.9-140	2121544	MS	17-Dec-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	2121532	MS	17-Dec-22	8015B	
DRO >C10-C28*	64.7	10.0	mg/kg	1	2121532	MS	17-Dec-22	8015B	
EXT DRO >C28-C36	10.6	10.0	mg/kg	1	2121532	MS	17-Dec-22	8015B	

Surrogate: 1-Chlorooctane		88.7 %		45.3-161	2121532	MS	17-Dec-22	8015B	
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Surrogate: 1-Chlorooctadecane		105 %		46.3-178	2121532	MS	17-Dec-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: YOUNG #1
Project Number: 03C2012015
Project Manager: HADLIE GREEN
Fax To:

Reported:
21-Dec-22 12:39

FS 42
H225917-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	32.0		16.0	mg/kg	4	2121635	GM	16-Dec-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2121544	MS	17-Dec-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2121544	MS	17-Dec-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2121544	MS	17-Dec-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2121544	MS	17-Dec-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2121544	MS	17-Dec-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		113 %		69.9-140		2121544	MS	17-Dec-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2121532	MS	17-Dec-22	8015B	
DRO >C10-C28*	15.3		10.0	mg/kg	1	2121532	MS	17-Dec-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2121532	MS	17-Dec-22	8015B	

Surrogate: 1-Chlorooctane		84.0 %		45.3-161		2121532	MS	17-Dec-22	8015B	
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Surrogate: 1-Chlorooctadecane		91.6 %		46.3-178		2121532	MS	17-Dec-22	8015B	
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Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: YOUNG #1
Project Number: 03C2012015
Project Manager: HADLIE GREEN
Fax To:

Reported:
21-Dec-22 12:39

FS 43
H225917-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories**Inorganic Compounds**

Chloride	32.0		16.0	mg/kg	4	2121635	GM	16-Dec-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2121544	MS	17-Dec-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2121544	MS	17-Dec-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2121544	MS	17-Dec-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2121544	MS	17-Dec-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2121544	MS	17-Dec-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			112 %		69.9-140	2121544	MS	17-Dec-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2121532	MS	17-Dec-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2121532	MS	17-Dec-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2121532	MS	17-Dec-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			95.8 %		45.3-161	2121532	MS	17-Dec-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			105 %		46.3-178	2121532	MS	17-Dec-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: YOUNG #1
Project Number: 03C2012015
Project Manager: HADLIE GREEN
Fax To:

Reported:
21-Dec-22 12:39

FS 44
H225917-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	2121635	GM	16-Dec-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2121615	JH	17-Dec-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2121615	JH	17-Dec-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2121615	JH	17-Dec-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2121615	JH	17-Dec-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2121615	JH	17-Dec-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			103 %	69.9-140		2121615	JH	17-Dec-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2121532	MS	17-Dec-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2121532	MS	17-Dec-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2121532	MS	17-Dec-22	8015B	

Surrogate: 1-Chlorooctane			88.1 %	45.3-161		2121532	MS	17-Dec-22	8015B	
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Surrogate: 1-Chlorooctadecane			94.1 %	46.3-178		2121532	MS	17-Dec-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: YOUNG #1
Project Number: 03C2012015
Project Manager: HADLIE GREEN
Fax To:

Reported:
21-Dec-22 12:39

FS 45
H225917-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	2121635	GM	16-Dec-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2121615	JH	17-Dec-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2121615	JH	17-Dec-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2121615	JH	17-Dec-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2121615	JH	17-Dec-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2121615	JH	17-Dec-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			103 %	69.9-140		2121615	JH	17-Dec-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2121532	MS	17-Dec-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2121532	MS	17-Dec-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2121532	MS	17-Dec-22	8015B	

Surrogate: 1-Chlorooctane			84.6 %	45.3-161		2121532	MS	17-Dec-22	8015B	
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Surrogate: 1-Chlorooctadecane			92.0 %	46.3-178		2121532	MS	17-Dec-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: YOUNG #1
Project Number: 03C2012015
Project Manager: HADLIE GREEN
Fax To:

Reported:
21-Dec-22 12:39

FS 46
H225917-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	304		16.0	mg/kg	4	2121635	GM	16-Dec-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2121615	JH	17-Dec-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2121615	JH	17-Dec-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2121615	JH	17-Dec-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2121615	JH	17-Dec-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2121615	JH	17-Dec-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140 2121615 JH 17-Dec-22 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<50.0		50.0	mg/kg	5	2121532	MS	17-Dec-22	8015B	
DRO >C10-C28*	909		50.0	mg/kg	5	2121532	MS	17-Dec-22	8015B	
EXT DRO >C28-C36	204		50.0	mg/kg	5	2121532	MS	17-Dec-22	8015B	

Surrogate: 1-Chlorooctane 100 % 45.3-161 2121532 MS 17-Dec-22 8015B

Surrogate: 1-Chlorooctadecane 162 % 46.3-178 2121532 MS 17-Dec-22 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: YOUNG #1
Project Number: 03C2012015
Project Manager: HADLIE GREEN
Fax To:

Reported:
21-Dec-22 12:39

FS 47
H225917-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	16.0		16.0	mg/kg	4	2121635	GM	16-Dec-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2121615	JH	17-Dec-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2121615	JH	17-Dec-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2121615	JH	17-Dec-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2121615	JH	17-Dec-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2121615	JH	17-Dec-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		106 %		69.9-140		2121615	JH	17-Dec-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2121532	MS	17-Dec-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2121532	MS	17-Dec-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2121532	MS	17-Dec-22	8015B	

Surrogate: 1-Chlorooctane		85.2 %		45.3-161		2121532	MS	17-Dec-22	8015B	
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Surrogate: 1-Chlorooctadecane		92.0 %		46.3-178		2121532	MS	17-Dec-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: YOUNG #1
Project Number: 03C2012015
Project Manager: HADLIE GREEN
Fax To:

Reported:
21-Dec-22 12:39

FS 48
H225917-08 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	2121635	GM	16-Dec-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2121615	JH	17-Dec-22	8021B	
Toluene*	0.146		0.050	mg/kg	50	2121615	JH	17-Dec-22	8021B	GC-NC1
Ethylbenzene*	0.574		0.050	mg/kg	50	2121615	JH	17-Dec-22	8021B	
Total Xylenes*	2.03		0.150	mg/kg	50	2121615	JH	17-Dec-22	8021B	
Total BTEX	2.75		0.300	mg/kg	50	2121615	JH	17-Dec-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 132 % 69.9-140 2121615 JH 17-Dec-22 8021B

Petroleum Hydrocarbons by GC FID**S-04**

GRO C6-C10*	134		10.0	mg/kg	1	2121532	MS	17-Dec-22	8015B	
DRO >C10-C28*	1280		10.0	mg/kg	1	2121532	MS	17-Dec-22	8015B	
EXT DRO >C28-C36	192		10.0	mg/kg	1	2121532	MS	17-Dec-22	8015B	

Surrogate: 1-Chlorooctane 144 % 45.3-161 2121532 MS 17-Dec-22 8015B

Surrogate: 1-Chlorooctadecane 221 % 46.3-178 2121532 MS 17-Dec-22 8015B

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: YOUNG #1
Project Number: 03C2012015
Project Manager: HADLIE GREEN
Fax To:

Reported:
21-Dec-22 12:39

FS 49
H225917-09 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	464		16.0	mg/kg	4	2121635	GM	16-Dec-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2121615	JH	17-Dec-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2121615	JH	17-Dec-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2121615	JH	17-Dec-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2121615	JH	17-Dec-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2121615	JH	17-Dec-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		106 %		69.9-140		2121615	JH	17-Dec-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2121532	MS	17-Dec-22	8015B	
DRO >C10-C28*	84.8		10.0	mg/kg	1	2121532	MS	17-Dec-22	8015B	
EXT DRO >C28-C36	21.9		10.0	mg/kg	1	2121532	MS	17-Dec-22	8015B	

Surrogate: 1-Chlorooctane		92.3 %		45.3-161		2121532	MS	17-Dec-22	8015B	
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Surrogate: 1-Chlorooctadecane		110 %		46.3-178		2121532	MS	17-Dec-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: YOUNG #1
Project Number: 03C2012015
Project Manager: HADLIE GREEN
Fax To:

Reported:
21-Dec-22 12:39

FS 50
H225917-10 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	800		16.0	mg/kg	4	2121635	GM	16-Dec-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2121615	JH	17-Dec-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2121615	JH	17-Dec-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2121615	JH	17-Dec-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2121615	JH	17-Dec-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2121615	JH	17-Dec-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			106 %		69.9-140	2121615	JH	17-Dec-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2121532	MS	17-Dec-22	8015B	
DRO >C10-C28*	137		10.0	mg/kg	1	2121532	MS	17-Dec-22	8015B	
EXT DRO >C28-C36	27.7		10.0	mg/kg	1	2121532	MS	17-Dec-22	8015B	

Surrogate: 1-Chlorooctane			117 %		45.3-161	2121532	MS	17-Dec-22	8015B	
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Surrogate: 1-Chlorooctadecane			140 %		46.3-178	2121532	MS	17-Dec-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: YOUNG #1
Project Number: 03C2012015
Project Manager: HADLIE GREEN
Fax To:

Reported:
21-Dec-22 12:39

FS 51
H225917-11 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	464		16.0	mg/kg	4	2121635	GM	16-Dec-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2121615	JH	17-Dec-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2121615	JH	17-Dec-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2121615	JH	17-Dec-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2121615	JH	17-Dec-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2121615	JH	17-Dec-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		105 %		69.9-140		2121615	JH	17-Dec-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2121532	MS	17-Dec-22	8015B	
DRO >C10-C28*	57.7		10.0	mg/kg	1	2121532	MS	17-Dec-22	8015B	
EXT DRO >C28-C36	12.1		10.0	mg/kg	1	2121532	MS	17-Dec-22	8015B	

Surrogate: 1-Chlorooctane		92.5 %		45.3-161		2121532	MS	17-Dec-22	8015B	
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Surrogate: 1-Chlorooctadecane		99.6 %		46.3-178		2121532	MS	17-Dec-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: YOUNG #1
Project Number: 03C2012015
Project Manager: HADLIE GREEN
Fax To:

Reported:
21-Dec-22 12:39

FS 52
H225917-12 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	64.0		16.0	mg/kg	4	2121635	GM	19-Dec-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2121615	JH	17-Dec-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2121615	JH	17-Dec-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2121615	JH	17-Dec-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2121615	JH	17-Dec-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2121615	JH	17-Dec-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			104 %	69.9-140		2121615	JH	17-Dec-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2121532	MS	17-Dec-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2121532	MS	17-Dec-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2121532	MS	17-Dec-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			87.3 %	45.3-161		2121532	MS	17-Dec-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			93.1 %	46.3-178		2121532	MS	17-Dec-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: YOUNG #1
Project Number: 03C2012015
Project Manager: HADLIE GREEN
Fax To:

Reported:
21-Dec-22 12:39

FS 53
H225917-13 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	48.0		16.0	mg/kg	4	2121635	GM	19-Dec-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2121615	JH	17-Dec-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2121615	JH	17-Dec-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2121615	JH	17-Dec-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2121615	JH	17-Dec-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2121615	JH	17-Dec-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			103 %	69.9-140		2121615	JH	17-Dec-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2121532	MS	17-Dec-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2121532	MS	17-Dec-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2121532	MS	17-Dec-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			97.9 %	45.3-161		2121532	MS	17-Dec-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			107 %	46.3-178		2121532	MS	17-Dec-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: YOUNG #1
Project Number: 03C2012015
Project Manager: HADLIE GREEN
Fax To:

Reported:
21-Dec-22 12:39

FS 54
H225917-14 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	16.0		16.0	mg/kg	4	2121635	GM	19-Dec-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2121615	JH	17-Dec-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2121615	JH	17-Dec-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2121615	JH	17-Dec-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2121615	JH	17-Dec-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2121615	JH	17-Dec-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			105 %	69.9-140		2121615	JH	17-Dec-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2121532	MS	17-Dec-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2121532	MS	17-Dec-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2121532	MS	17-Dec-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			90.8 %	45.3-161		2121532	MS	17-Dec-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			98.3 %	46.3-178		2121532	MS	17-Dec-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: YOUNG #1
Project Number: 03C2012015
Project Manager: HADLIE GREEN
Fax To:

Reported:
21-Dec-22 12:39

FS 55
H225917-15 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	32.0		16.0	mg/kg	4	2121635	GM	19-Dec-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2121615	JH	17-Dec-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2121615	JH	17-Dec-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2121615	JH	17-Dec-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2121615	JH	17-Dec-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2121615	JH	17-Dec-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			106 %	69.9-140		2121615	JH	17-Dec-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2121532	MS	17-Dec-22	8015B	
DRO >C10-C28*	69.9		10.0	mg/kg	1	2121532	MS	17-Dec-22	8015B	
EXT DRO >C28-C36	11.3		10.0	mg/kg	1	2121532	MS	17-Dec-22	8015B	

Surrogate: 1-Chlorooctane			93.8 %	45.3-161		2121532	MS	17-Dec-22	8015B	
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Surrogate: 1-Chlorooctadecane			105 %	46.3-178		2121532	MS	17-Dec-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: YOUNG #1
Project Number: 03C2012015
Project Manager: HADLIE GREEN
Fax To:

Reported:
21-Dec-22 12:39

FS 56
H225917-16 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	320		16.0	mg/kg	4	2121635	GM	19-Dec-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2121615	JH	17-Dec-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2121615	JH	17-Dec-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2121615	JH	17-Dec-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2121615	JH	17-Dec-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2121615	JH	17-Dec-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			105 %		69.9-140	2121615	JH	17-Dec-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<50.0		50.0	mg/kg	5	2121532	MS	17-Dec-22	8015B	
DRO >C10-C28*	983		50.0	mg/kg	5	2121532	MS	17-Dec-22	8015B	
EXT DRO >C28-C36	249		50.0	mg/kg	5	2121532	MS	17-Dec-22	8015B	

Surrogate: 1-Chlorooctane			89.6 %		45.3-161	2121532	MS	17-Dec-22	8015B	
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Surrogate: 1-Chlorooctadecane			136 %		46.3-178	2121532	MS	17-Dec-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: YOUNG #1
Project Number: 03C2012015
Project Manager: HADLIE GREEN
Fax To:

Reported:
21-Dec-22 12:39

FS 57
H225917-17 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	16.0		16.0	mg/kg	4	2121635	GM	19-Dec-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2121615	JH	17-Dec-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2121615	JH	17-Dec-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2121615	JH	17-Dec-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2121615	JH	17-Dec-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2121615	JH	17-Dec-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140 2121615 JH 17-Dec-22 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2121532	MS	17-Dec-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2121532	MS	17-Dec-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2121532	MS	17-Dec-22	8015B	

Surrogate: 1-Chlorooctane 87.5 % 45.3-161 2121532 MS 17-Dec-22 8015B

Surrogate: 1-Chlorooctadecane 94.0 % 46.3-178 2121532 MS 17-Dec-22 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: YOUNG #1
Project Number: 03C2012015
Project Manager: HADLIE GREEN
Fax To:

Reported:
21-Dec-22 12:39

FS 58
H225917-18 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	48.0		16.0	mg/kg	4	2121916	GM	19-Dec-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2121615	JH	17-Dec-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2121615	JH	17-Dec-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2121615	JH	17-Dec-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2121615	JH	17-Dec-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2121615	JH	17-Dec-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		105 %		69.9-140		2121615	JH	17-Dec-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2121533	MS	19-Dec-22	8015B	
DRO >C10-C28*	162		10.0	mg/kg	1	2121533	MS	19-Dec-22	8015B	
EXT DRO >C28-C36	23.7		10.0	mg/kg	1	2121533	MS	19-Dec-22	8015B	

Surrogate: 1-Chlorooctane		84.6 %		45.3-161		2121533	MS	19-Dec-22	8015B	
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Surrogate: 1-Chlorooctadecane		86.0 %		46.3-178		2121533	MS	19-Dec-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: YOUNG #1
Project Number: 03C2012015
Project Manager: HADLIE GREEN
Fax To:

Reported:
21-Dec-22 12:39

FS 59
H225917-19 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	464		16.0	mg/kg	4	2121916	GM	19-Dec-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2121615	JH	17-Dec-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2121615	JH	17-Dec-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2121615	JH	17-Dec-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2121615	JH	17-Dec-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2121615	JH	17-Dec-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			104 %		69.9-140	2121615	JH	17-Dec-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2121533	MS	19-Dec-22	8015B	
DRO >C10-C28*	95.5		10.0	mg/kg	1	2121533	MS	19-Dec-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2121533	MS	19-Dec-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			82.4 %		45.3-161	2121533	MS	19-Dec-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			82.7 %		46.3-178	2121533	MS	19-Dec-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: YOUNG #1
Project Number: 03C2012015
Project Manager: HADLIE GREEN
Fax To:

Reported:
21-Dec-22 12:39

FS 60
H225917-20 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	912		16.0	mg/kg	4	2121916	GM	19-Dec-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2121615	JH	17-Dec-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2121615	JH	17-Dec-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2121615	JH	17-Dec-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2121615	JH	17-Dec-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2121615	JH	17-Dec-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			105 %	69.9-140		2121615	JH	17-Dec-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2121533	MS	19-Dec-22	8015B	
DRO >C10-C28*	77.2		10.0	mg/kg	1	2121533	MS	19-Dec-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2121533	MS	19-Dec-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			75.3 %	45.3-161		2121533	MS	19-Dec-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			76.5 %	46.3-178		2121533	MS	19-Dec-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: YOUNG #1
Project Number: 03C2012015
Project Manager: HADLIE GREEN
Fax To:

Reported:
21-Dec-22 12:39

FS 61
H225917-21 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	208		16.0	mg/kg	4	2121916	GM	19-Dec-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2121615	JH	17-Dec-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2121615	JH	17-Dec-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2121615	JH	17-Dec-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2121615	JH	17-Dec-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2121615	JH	17-Dec-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			104 %		69.9-140	2121615	JH	17-Dec-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2121533	MS	19-Dec-22	8015B	
DRO >C10-C28*	94.8		10.0	mg/kg	1	2121533	MS	19-Dec-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2121533	MS	19-Dec-22	8015B	

Surrogate: 1-Chlorooctane			80.7 %		45.3-161	2121533	MS	19-Dec-22	8015B	
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Surrogate: 1-Chlorooctadecane			82.7 %		46.3-178	2121533	MS	19-Dec-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: YOUNG #1
Project Number: 03C2012015
Project Manager: HADLIE GREEN
Fax To:

Reported:
21-Dec-22 12:39

FS 62
H225917-22 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	192		16.0	mg/kg	4	2121916	GM	19-Dec-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	2121615	JH	17-Dec-22	8021B	
Toluene*	<0.050	0.050	mg/kg	50	2121615	JH	17-Dec-22	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	2121615	JH	17-Dec-22	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	2121615	JH	17-Dec-22	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	2121615	JH	17-Dec-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	105 %	69.9-140	2121615	JH	17-Dec-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	2121533	MS	19-Dec-22	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	2121533	MS	19-Dec-22	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	2121533	MS	19-Dec-22	8015B	

Surrogate: 1-Chlorooctane	84.8 %	45.3-161	2121533	MS	19-Dec-22	8015B	
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Surrogate: 1-Chlorooctadecane	83.5 %	46.3-178	2121533	MS	19-Dec-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: YOUNG #1
Project Number: 03C2012015
Project Manager: HADLIE GREEN
Fax To:

Reported:
21-Dec-22 12:39

FS 63
H225917-23 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	80.0		16.0	mg/kg	4	2121916	GM	19-Dec-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2121615	JH	17-Dec-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2121615	JH	17-Dec-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2121615	JH	17-Dec-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2121615	JH	17-Dec-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2121615	JH	17-Dec-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			104 %	69.9-140		2121615	JH	17-Dec-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2121533	MS	19-Dec-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2121533	MS	19-Dec-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2121533	MS	19-Dec-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			87.0 %	45.3-161		2121533	MS	19-Dec-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			84.3 %	46.3-178		2121533	MS	19-Dec-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: YOUNG #1
Project Number: 03C2012015
Project Manager: HADLIE GREEN
Fax To:

Reported:
21-Dec-22 12:39

FS 64
H225917-24 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	48.0		16.0	mg/kg	4	2121916	GM	19-Dec-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2121617	JH	17-Dec-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2121617	JH	17-Dec-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2121617	JH	17-Dec-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2121617	JH	17-Dec-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2121617	JH	17-Dec-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			106 %	69.9-140		2121617	JH	17-Dec-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2121533	MS	19-Dec-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2121533	MS	19-Dec-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2121533	MS	19-Dec-22	8015B	

Surrogate: 1-Chlorooctane			88.2 %	45.3-161		2121533	MS	19-Dec-22	8015B	
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Surrogate: 1-Chlorooctadecane			84.9 %	46.3-178		2121533	MS	19-Dec-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: YOUNG #1
Project Number: 03C2012015
Project Manager: HADLIE GREEN
Fax To:

Reported:
21-Dec-22 12:39

FS 65
H225917-25 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	32.0		16.0	mg/kg	4	2121916	GM	19-Dec-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2121617	JH	17-Dec-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2121617	JH	17-Dec-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2121617	JH	17-Dec-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2121617	JH	17-Dec-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2121617	JH	17-Dec-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			105 %	69.9-140		2121617	JH	17-Dec-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2121533	MS	19-Dec-22	8015B	
DRO >C10-C28*	15.9		10.0	mg/kg	1	2121533	MS	19-Dec-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2121533	MS	19-Dec-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			88.8 %	45.3-161		2121533	MS	19-Dec-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			90.0 %	46.3-178		2121533	MS	19-Dec-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: YOUNG #1
Project Number: 03C2012015
Project Manager: HADLIE GREEN
Fax To:

Reported:
21-Dec-22 12:39

FS 66
H225917-26 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	336		16.0	mg/kg	4	2121916	GM	19-Dec-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2121617	JH	17-Dec-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2121617	JH	17-Dec-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2121617	JH	17-Dec-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2121617	JH	17-Dec-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2121617	JH	17-Dec-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		105 %		69.9-140		2121617	JH	17-Dec-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2121533	MS	19-Dec-22	8015B	
DRO >C10-C28*	1090		10.0	mg/kg	1	2121533	MS	19-Dec-22	8015B	
EXT DRO >C28-C36	337		10.0	mg/kg	1	2121533	MS	19-Dec-22	8015B	

Surrogate: 1-Chlorooctane		80.9 %		45.3-161		2121533	MS	19-Dec-22	8015B	
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Surrogate: 1-Chlorooctadecane		111 %		46.3-178		2121533	MS	19-Dec-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: YOUNG #1
Project Number: 03C2012015
Project Manager: HADLIE GREEN
Fax To:

Reported:
21-Dec-22 12:39

FS 67
H225917-27 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	48.0		16.0	mg/kg	4	2121916	GM	19-Dec-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2121617	JH	17-Dec-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2121617	JH	17-Dec-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2121617	JH	17-Dec-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2121617	JH	17-Dec-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2121617	JH	17-Dec-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			103 %	69.9-140		2121617	JH	17-Dec-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2121533	MS	19-Dec-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2121533	MS	19-Dec-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2121533	MS	19-Dec-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			78.7 %	45.3-161		2121533	MS	19-Dec-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			77.1 %	46.3-178		2121533	MS	19-Dec-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: YOUNG #1
Project Number: 03C2012015
Project Manager: HADLIE GREEN
Fax To:

Reported:
21-Dec-22 12:39

FS 68
H225917-28 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	48.0		16.0	mg/kg	4	2121916	GM	19-Dec-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2121617	JH	17-Dec-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2121617	JH	17-Dec-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2121617	JH	17-Dec-22	8021B	
Total Xylenes*	0.185		0.150	mg/kg	50	2121617	JH	17-Dec-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2121617	JH	17-Dec-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			113 %	69.9-140		2121617	JH	17-Dec-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	17.9		10.0	mg/kg	1	2121533	MS	19-Dec-22	8015B	
DRO >C10-C28*	766		10.0	mg/kg	1	2121533	MS	19-Dec-22	8015B	
EXT DRO >C28-C36	138		10.0	mg/kg	1	2121533	MS	19-Dec-22	8015B	

Surrogate: 1-Chlorooctane			91.2 %	45.3-161		2121533	MS	19-Dec-22	8015B	
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Surrogate: 1-Chlorooctadecane			104 %	46.3-178		2121533	MS	19-Dec-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: YOUNG #1
Project Number: 03C2012015
Project Manager: HADLIE GREEN
Fax To:

Reported:
21-Dec-22 12:39

FS 69
H225917-29 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	416		16.0	mg/kg	4	2121916	GM	19-Dec-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2121617	JH	17-Dec-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2121617	JH	17-Dec-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2121617	JH	17-Dec-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2121617	JH	17-Dec-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2121617	JH	17-Dec-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			106 %		69.9-140	2121617	JH	17-Dec-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2121533	MS	19-Dec-22	8015B	
DRO >C10-C28*	186		10.0	mg/kg	1	2121533	MS	19-Dec-22	8015B	
EXT DRO >C28-C36	32.7		10.0	mg/kg	1	2121533	MS	19-Dec-22	8015B	

Surrogate: 1-Chlorooctane			87.8 %		45.3-161	2121533	MS	19-Dec-22	8015B	
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Surrogate: 1-Chlorooctadecane			91.5 %		46.3-178	2121533	MS	19-Dec-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: YOUNG #1
Project Number: 03C2012015
Project Manager: HADLIE GREEN
Fax To:

Reported:
21-Dec-22 12:39

FS 70
H225917-30 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	992		16.0	mg/kg	4	2121916	GM	19-Dec-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2121617	JH	17-Dec-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2121617	JH	17-Dec-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2121617	JH	17-Dec-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2121617	JH	17-Dec-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2121617	JH	17-Dec-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		104 %		69.9-140		2121617	JH	17-Dec-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2121533	MS	19-Dec-22	8015B	
DRO >C10-C28*	58.4		10.0	mg/kg	1	2121533	MS	19-Dec-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2121533	MS	19-Dec-22	8015B	

Surrogate: 1-Chlorooctane		79.2 %		45.3-161		2121533	MS	19-Dec-22	8015B	
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Surrogate: 1-Chlorooctadecane		80.3 %		46.3-178		2121533	MS	19-Dec-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: YOUNG #1
Project Number: 03C2012015
Project Manager: HADLIE GREEN
Fax To:

Reported:
21-Dec-22 12:39

FS 71
H225917-31 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	240		16.0	mg/kg	4	2121916	GM	19-Dec-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2121617	JH	17-Dec-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2121617	JH	17-Dec-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2121617	JH	17-Dec-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2121617	JH	17-Dec-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2121617	JH	17-Dec-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			106 %		69.9-140	2121617	JH	17-Dec-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2121533	MS	19-Dec-22	8015B	
DRO >C10-C28*	116		10.0	mg/kg	1	2121533	MS	19-Dec-22	8015B	
EXT DRO >C28-C36	20.9		10.0	mg/kg	1	2121533	MS	19-Dec-22	8015B	

Surrogate: 1-Chlorooctane			65.4 %		45.3-161	2121533	MS	19-Dec-22	8015B	
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Surrogate: 1-Chlorooctadecane			76.8 %		46.3-178	2121533	MS	19-Dec-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: YOUNG #1
Project Number: 03C2012015
Project Manager: HADLIE GREEN
Fax To:

Reported:
21-Dec-22 12:39

FS 72
H225917-32 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	64.0		16.0	mg/kg	4	2121916	GM	19-Dec-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2121617	JH	17-Dec-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2121617	JH	17-Dec-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2121617	JH	17-Dec-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2121617	JH	17-Dec-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2121617	JH	17-Dec-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			105 %	69.9-140		2121617	JH	17-Dec-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2121533	MS	19-Dec-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2121533	MS	19-Dec-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2121533	MS	19-Dec-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			85.4 %	45.3-161		2121533	MS	19-Dec-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			82.2 %	46.3-178		2121533	MS	19-Dec-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: YOUNG #1
Project Number: 03C2012015
Project Manager: HADLIE GREEN
Fax To:

Reported:
21-Dec-22 12:39

FS 73
H225917-33 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	64.0		16.0	mg/kg	4	2121916	GM	19-Dec-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2121617	JH	17-Dec-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2121617	JH	17-Dec-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2121617	JH	17-Dec-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2121617	JH	17-Dec-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2121617	JH	17-Dec-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			105 %	69.9-140		2121617	JH	17-Dec-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2121533	MS	19-Dec-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2121533	MS	19-Dec-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2121533	MS	19-Dec-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			82.1 %	45.3-161		2121533	MS	19-Dec-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			80.1 %	46.3-178		2121533	MS	19-Dec-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: YOUNG #1
Project Number: 03C2012015
Project Manager: HADLIE GREEN
Fax To:

Reported:
21-Dec-22 12:39

FS 74
H225917-34 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	32.0		16.0	mg/kg	4	2121916	GM	19-Dec-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2121617	JH	17-Dec-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2121617	JH	17-Dec-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2121617	JH	17-Dec-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2121617	JH	17-Dec-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2121617	JH	17-Dec-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		105 %		69.9-140		2121617	JH	17-Dec-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2121533	MS	19-Dec-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2121533	MS	19-Dec-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2121533	MS	19-Dec-22	8015B	

Surrogate: 1-Chlorooctane		85.8 %		45.3-161		2121533	MS	19-Dec-22	8015B	
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Surrogate: 1-Chlorooctadecane		82.4 %		46.3-178		2121533	MS	19-Dec-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: YOUNG #1
Project Number: 03C2012015
Project Manager: HADLIE GREEN
Fax To:

Reported:
21-Dec-22 12:39

FS 75
H225917-35 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	48.0		16.0	mg/kg	4	2121916	GM	19-Dec-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2121617	JH	17-Dec-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2121617	JH	17-Dec-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2121617	JH	17-Dec-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2121617	JH	17-Dec-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2121617	JH	17-Dec-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			106 %	69.9-140		2121617	JH	17-Dec-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2121533	MS	19-Dec-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2121533	MS	19-Dec-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2121533	MS	19-Dec-22	8015B	

Surrogate: 1-Chlorooctane			77.2 %	45.3-161		2121533	MS	19-Dec-22	8015B	
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Surrogate: 1-Chlorooctadecane			75.2 %	46.3-178		2121533	MS	19-Dec-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: YOUNG #1
Project Number: 03C2012015
Project Manager: HADLIE GREEN
Fax To:

Reported:
21-Dec-22 12:39

FS 76
H225917-36 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	272		16.0	mg/kg	4	2121916	GM	19-Dec-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2121617	JH	17-Dec-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2121617	JH	17-Dec-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2121617	JH	17-Dec-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2121617	JH	17-Dec-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2121617	JH	17-Dec-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			106 %		69.9-140	2121617	JH	17-Dec-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2121533	MS	20-Dec-22	8015B	
DRO >C10-C28*	875		10.0	mg/kg	1	2121533	MS	20-Dec-22	8015B	
EXT DRO >C28-C36	303		10.0	mg/kg	1	2121533	MS	20-Dec-22	8015B	

Surrogate: 1-Chlorooctane			87.1 %		45.3-161	2121533	MS	20-Dec-22	8015B	
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Surrogate: 1-Chlorooctadecane			127 %		46.3-178	2121533	MS	20-Dec-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: YOUNG #1
Project Number: 03C2012015
Project Manager: HADLIE GREEN
Fax To:

Reported:
21-Dec-22 12:39

FS 77
H225917-37 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	48.0		16.0	mg/kg	4	2121916	GM	19-Dec-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2121617	JH	17-Dec-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2121617	JH	17-Dec-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2121617	JH	17-Dec-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2121617	JH	17-Dec-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2121617	JH	17-Dec-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			106 %	69.9-140		2121617	JH	17-Dec-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2121533	MS	19-Dec-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2121533	MS	19-Dec-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2121533	MS	19-Dec-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			80.5 %	45.3-161		2121533	MS	19-Dec-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			81.3 %	46.3-178		2121533	MS	19-Dec-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: YOUNG #1
Project Number: 03C2012015
Project Manager: HADLIE GREEN
Fax To:

Reported:
21-Dec-22 12:39

FS 78
H225917-38 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	32.0		16.0	mg/kg	4	2121636	GM	19-Dec-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2121617	JH	17-Dec-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2121617	JH	17-Dec-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2121617	JH	17-Dec-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2121617	JH	17-Dec-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2121617	JH	17-Dec-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		105 %		69.9-140		2121617	JH	17-Dec-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2121545	MS	20-Dec-22	8015B	
DRO >C10-C28*	101		10.0	mg/kg	1	2121545	MS	20-Dec-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2121545	MS	20-Dec-22	8015B	

Surrogate: 1-Chlorooctane		83.6 %		45.3-161		2121545	MS	20-Dec-22	8015B	
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Surrogate: 1-Chlorooctadecane		95.8 %		46.3-178		2121545	MS	20-Dec-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: YOUNG #1
Project Number: 03C2012015
Project Manager: HADLIE GREEN
Fax To:

Reported:
21-Dec-22 12:39

FS 79
H225917-39 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	352		16.0	mg/kg	4	2121636	GM	19-Dec-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2121617	JH	17-Dec-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2121617	JH	17-Dec-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2121617	JH	17-Dec-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2121617	JH	17-Dec-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2121617	JH	17-Dec-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			102 %		69.9-140	2121617	JH	17-Dec-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2121545	MS	20-Dec-22	8015B	
DRO >C10-C28*	105		10.0	mg/kg	1	2121545	MS	20-Dec-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2121545	MS	20-Dec-22	8015B	

Surrogate: 1-Chlorooctane			86.5 %		45.3-161	2121545	MS	20-Dec-22	8015B	
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Surrogate: 1-Chlorooctadecane			102 %		46.3-178	2121545	MS	20-Dec-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: YOUNG #1
Project Number: 03C2012015
Project Manager: HADLIE GREEN
Fax To:

Reported:
21-Dec-22 12:39

FS 80
H225917-40 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	864		16.0	mg/kg	4	2121636	GM	19-Dec-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	2121617	JH	18-Dec-22	8021B	
Toluene*	<0.050	0.050	mg/kg	50	2121617	JH	18-Dec-22	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	2121617	JH	18-Dec-22	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	2121617	JH	18-Dec-22	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	2121617	JH	18-Dec-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	104 %	69.9-140	2121617	JH	18-Dec-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	2121545	MS	20-Dec-22	8015B	
DRO >C10-C28*	32.3	10.0	mg/kg	1	2121545	MS	20-Dec-22	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	2121545	MS	20-Dec-22	8015B	

Surrogate: 1-Chlorooctane	87.5 %	45.3-161	2121545	MS	20-Dec-22	8015B	
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Surrogate: 1-Chlorooctadecane	100 %	46.3-178	2121545	MS	20-Dec-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: YOUNG #1
Project Number: 03C2012015
Project Manager: HADLIE GREEN
Fax To:

Reported:
21-Dec-22 12:39

FS 81
H225917-41 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	384		16.0	mg/kg	4	2121636	GM	19-Dec-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2121617	JH	18-Dec-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2121617	JH	18-Dec-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2121617	JH	18-Dec-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2121617	JH	18-Dec-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2121617	JH	18-Dec-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			105 %	69.9-140		2121617	JH	18-Dec-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2121545	MS	20-Dec-22	8015B	
DRO >C10-C28*	186		10.0	mg/kg	1	2121545	MS	20-Dec-22	8015B	
EXT DRO >C28-C36	26.1		10.0	mg/kg	1	2121545	MS	20-Dec-22	8015B	

Surrogate: 1-Chlorooctane			85.0 %	45.3-161		2121545	MS	20-Dec-22	8015B	
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Surrogate: 1-Chlorooctadecane			102 %	46.3-178		2121545	MS	20-Dec-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: YOUNG #1
Project Number: 03C2012015
Project Manager: HADLIE GREEN
Fax To:

Reported:
21-Dec-22 12:39

FS 82
H225917-42 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	272		16.0	mg/kg	4	2121636	GM	19-Dec-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2121617	JH	18-Dec-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2121617	JH	18-Dec-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2121617	JH	18-Dec-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2121617	JH	18-Dec-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2121617	JH	18-Dec-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			103 %		69.9-140	2121617	JH	18-Dec-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2121545	MS	20-Dec-22	8015B	
DRO >C10-C28*	77.0		10.0	mg/kg	1	2121545	MS	20-Dec-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2121545	MS	20-Dec-22	8015B	

Surrogate: 1-Chlorooctane			73.6 %		45.3-161	2121545	MS	20-Dec-22	8015B	
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Surrogate: 1-Chlorooctadecane			84.8 %		46.3-178	2121545	MS	20-Dec-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: YOUNG #1
Project Number: 03C2012015
Project Manager: HADLIE GREEN
Fax To:

Reported:
21-Dec-22 12:39

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2121635 - 1:4 DI Water**Blank (2121635-BLK1)**

Prepared & Analyzed: 16-Dec-22

Chloride	ND	16.0	mg/kg
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LCS (2121635-BS1)

Prepared & Analyzed: 16-Dec-22

Chloride	416	16.0	mg/kg	400	104	80-120
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LCS Dup (2121635-BSD1)

Prepared & Analyzed: 16-Dec-22

Chloride	432	16.0	mg/kg	400	108	80-120	3.77	20
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Batch 2121636 - 1:4 DI Water**Blank (2121636-BLK1)**

Prepared & Analyzed: 16-Dec-22

Chloride	ND	16.0	mg/kg
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LCS (2121636-BS1)

Prepared & Analyzed: 16-Dec-22

Chloride	432	16.0	mg/kg	400	108	80-120
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LCS Dup (2121636-BSD1)

Prepared & Analyzed: 16-Dec-22

Chloride	432	16.0	mg/kg	400	108	80-120	0.00	20
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Batch 2121916 - 1:4 DI Water**Blank (2121916-BLK1)**

Prepared & Analyzed: 19-Dec-22

Chloride	ND	16.0	mg/kg
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LCS (2121916-BS1)

Prepared & Analyzed: 19-Dec-22

Chloride	432	16.0	mg/kg	400	108	80-120
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: YOUNG #1
Project Number: 03C2012015
Project Manager: HADLIE GREEN
Fax To:

Reported:
21-Dec-22 12:39

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2121916 - 1:4 DI Water**LCS Dup (2121916-BSD1)**

Prepared & Analyzed: 19-Dec-22

Chloride	448	16.0	mg/kg	400		112	80-120	3.64	20	
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Analytical Results For:

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

Project: YOUNG #1
Project Number: 03C2012015
Project Manager: HADLIE GREEN
Fax To:

Reported:
21-Dec-22 12:39

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2121544 - Volatiles**Blank (2121544-BLK1)**

Prepared: 16-Dec-22 Analyzed: 17-Dec-22

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)	0.0552		mg/kg	0.0500		110	69.9-140			

LCS (2121544-BS1)

Prepared: 16-Dec-22 Analyzed: 17-Dec-22

Benzene	2.06	0.050	mg/kg	2.00		103	83.4-122			
Toluene	2.15	0.050	mg/kg	2.00		107	84.2-126			
Ethylbenzene	2.17	0.050	mg/kg	2.00		108	84.2-121			
m,p-Xylene	4.44	0.100	mg/kg	4.00		111	89.9-126			
o-Xylene	2.05	0.050	mg/kg	2.00		102	84.3-123			
Total Xylenes	6.48	0.150	mg/kg	6.00		108	89.1-124			
Surrogate: 4-Bromofluorobenzene (PID)	0.0508		mg/kg	0.0500		102	69.9-140			

LCS Dup (2121544-BS1)

Prepared: 16-Dec-22 Analyzed: 17-Dec-22

Benzene	2.09	0.050	mg/kg	2.00		104	83.4-122	1.59	12.6	
Toluene	2.11	0.050	mg/kg	2.00		105	84.2-126	2.03	13.3	
Ethylbenzene	2.13	0.050	mg/kg	2.00		106	84.2-121	1.82	13.9	
m,p-Xylene	4.36	0.100	mg/kg	4.00		109	89.9-126	1.66	13.6	
o-Xylene	2.08	0.050	mg/kg	2.00		104	84.3-123	1.71	14.1	
Total Xylenes	6.45	0.150	mg/kg	6.00		107	89.1-124	0.585	13.4	
Surrogate: 4-Bromofluorobenzene (PID)	0.0520		mg/kg	0.0500		104	69.9-140			

Batch 2121615 - Volatiles**Blank (2121615-BLK1)**

Prepared: 16-Dec-22 Analyzed: 17-Dec-22

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							

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Analytical Results For:

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

Project: YOUNG #1
Project Number: 03C2012015
Project Manager: HADLIE GREEN
Fax To:

Reported:
21-Dec-22 12:39

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2121615 - Volatiles**Blank (2121615-BLK1)**

Prepared: 16-Dec-22 Analyzed: 17-Dec-22

Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0519		mg/kg	0.0500		104	69.9-140			

LCS (2121615-BS1)

Prepared: 16-Dec-22 Analyzed: 17-Dec-22

Benzene	2.06	0.050	mg/kg	2.00		103	83.4-122			
Toluene	2.17	0.050	mg/kg	2.00		109	84.2-126			
Ethylbenzene	2.14	0.050	mg/kg	2.00		107	84.2-121			
m,p-Xylene	4.49	0.100	mg/kg	4.00		112	89.9-126			
o-Xylene	2.12	0.050	mg/kg	2.00		106	84.3-123			
Total Xylenes	6.62	0.150	mg/kg	6.00		110	89.1-124			
Surrogate: 4-Bromofluorobenzene (PID)	0.0510		mg/kg	0.0500		102	69.9-140			

LCS Dup (2121615-BS1)

Prepared: 16-Dec-22 Analyzed: 17-Dec-22

Benzene	2.07	0.050	mg/kg	2.00		103	83.4-122	0.168	12.6	
Toluene	2.17	0.050	mg/kg	2.00		109	84.2-126	0.0227	13.3	
Ethylbenzene	2.13	0.050	mg/kg	2.00		107	84.2-121	0.442	13.9	
m,p-Xylene	4.45	0.100	mg/kg	4.00		111	89.9-126	0.990	13.6	
o-Xylene	2.11	0.050	mg/kg	2.00		105	84.3-123	0.536	14.1	
Total Xylenes	6.56	0.150	mg/kg	6.00		109	89.1-124	0.844	13.4	
Surrogate: 4-Bromofluorobenzene (PID)	0.0497		mg/kg	0.0500		99.3	69.9-140			

Batch 2121617 - Volatiles**Blank (2121617-BLK1)**

Prepared: 16-Dec-22 Analyzed: 17-Dec-22

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)	0.0521		mg/kg	0.0500		104	69.9-140			

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Analytical Results For:

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

Project: YOUNG #1
Project Number: 03C2012015
Project Manager: HADLIE GREEN
Fax To:

Reported:
21-Dec-22 12:39

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2121617 - Volatiles**LCS (2121617-BS1)**

Prepared: 16-Dec-22 Analyzed: 17-Dec-22

Benzene	2.10	0.050	mg/kg	2.00		105	83.4-122			
Toluene	2.20	0.050	mg/kg	2.00		110	84.2-126			
Ethylbenzene	2.16	0.050	mg/kg	2.00		108	84.2-121			
m,p-Xylene	4.50	0.100	mg/kg	4.00		113	89.9-126			
o-Xylene	2.14	0.050	mg/kg	2.00		107	84.3-123			
Total Xylenes	6.64	0.150	mg/kg	6.00		111	89.1-124			
Surrogate: 4-Bromofluorobenzene (PID)	0.0497		mg/kg	0.0500		99.3	69.9-140			

LCS Dup (2121617-BS1)

Prepared: 16-Dec-22 Analyzed: 17-Dec-22

Benzene	2.07	0.050	mg/kg	2.00		104	83.4-122	1.06	12.6	
Toluene	2.18	0.050	mg/kg	2.00		109	84.2-126	0.655	13.3	
Ethylbenzene	2.15	0.050	mg/kg	2.00		107	84.2-121	0.674	13.9	
m,p-Xylene	4.49	0.100	mg/kg	4.00		112	89.9-126	0.347	13.6	
o-Xylene	2.12	0.050	mg/kg	2.00		106	84.3-123	0.854	14.1	
Total Xylenes	6.60	0.150	mg/kg	6.00		110	89.1-124	0.510	13.4	
Surrogate: 4-Bromofluorobenzene (PID)	0.0506		mg/kg	0.0500		101	69.9-140			

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: YOUNG #1
Project Number: 03C2012015
Project Manager: HADLIE GREEN
Fax To:

Reported:
21-Dec-22 12:39

Petroleum Hydrocarbons by GC FID - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2121532 - General Prep - Organics**Blank (2121532-BLK1)**

Prepared: 15-Dec-22 Analyzed: 17-Dec-22

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	43.5		mg/kg	50.0		87.0	45.3-161			
Surrogate: 1-Chlorooctadecane	47.6		mg/kg	50.0		95.2	46.3-178			

LCS (2121532-BS1)

Prepared: 15-Dec-22 Analyzed: 17-Dec-22

GRO C6-C10	219	10.0	mg/kg	200		110	76.8-124			
DRO >C10-C28	197	10.0	mg/kg	200		98.4	74.9-127			
Total TPH C6-C28	416	10.0	mg/kg	400		104	77.5-124			
Surrogate: 1-Chlorooctane	52.5		mg/kg	50.0		105	45.3-161			
Surrogate: 1-Chlorooctadecane	62.7		mg/kg	50.0		125	46.3-178			

LCS Dup (2121532-BS1)

Prepared: 15-Dec-22 Analyzed: 17-Dec-22

GRO C6-C10	207	10.0	mg/kg	200		103	76.8-124	5.96	17.2	
DRO >C10-C28	185	10.0	mg/kg	200		92.3	74.9-127	6.41	18.6	
Total TPH C6-C28	391	10.0	mg/kg	400		97.8	77.5-124	6.17	17.6	
Surrogate: 1-Chlorooctane	52.2		mg/kg	50.0		104	45.3-161			
Surrogate: 1-Chlorooctadecane	60.5		mg/kg	50.0		121	46.3-178			

Batch 2121533 - General Prep - Organics**Blank (2121533-BLK1)**

Prepared: 15-Dec-22 Analyzed: 19-Dec-22

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	44.9		mg/kg	50.0		89.9	45.3-161			
Surrogate: 1-Chlorooctadecane	41.9		mg/kg	50.0		83.9	46.3-178			

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Analytical Results For:

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

Project: YOUNG #1
Project Number: 03C2012015
Project Manager: HADLIE GREEN
Fax To:

Reported:
21-Dec-22 12:39

Petroleum Hydrocarbons by GC FID - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	----------------	-----	--------------	-------

Batch 2121533 - General Prep - Organics**LCS (2121533-BS1)**

Prepared: 15-Dec-22 Analyzed: 19-Dec-22

GRO C6-C10	205	10.0	mg/kg	200		102	76.8-124		
DRO >C10-C28	194	10.0	mg/kg	200		96.8	74.9-127		
Total TPH C6-C28	398	10.0	mg/kg	400		99.6	77.5-124		
Surrogate: 1-Chlorooctane	49.7		mg/kg	50.0		99.4	45.3-161		
Surrogate: 1-Chlorooctadecane	45.1		mg/kg	50.0		90.2	46.3-178		

LCS Dup (2121533-BS1)

Prepared: 15-Dec-22 Analyzed: 19-Dec-22

GRO C6-C10	199	10.0	mg/kg	200		99.3	76.8-124	3.02	17.2
DRO >C10-C28	188	10.0	mg/kg	200		94.0	74.9-127	2.98	18.6
Total TPH C6-C28	387	10.0	mg/kg	400		96.7	77.5-124	3.00	17.6
Surrogate: 1-Chlorooctane	48.5		mg/kg	50.0		96.9	45.3-161		
Surrogate: 1-Chlorooctadecane	44.1		mg/kg	50.0		88.2	46.3-178		

Batch 2121545 - General Prep - Organics**Blank (2121545-BLK1)**

Prepared: 15-Dec-22 Analyzed: 20-Dec-22

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	48.0		mg/kg	50.0		95.9	45.3-161		
Surrogate: 1-Chlorooctadecane	54.5		mg/kg	50.0		109	46.3-178		

LCS (2121545-BS1)

Prepared: 15-Dec-22 Analyzed: 19-Dec-22

GRO C6-C10	219	10.0	mg/kg	200		109	76.8-124		
DRO >C10-C28	227	10.0	mg/kg	200		114	74.9-127		
Total TPH C6-C28	446	10.0	mg/kg	400		112	77.5-124		
Surrogate: 1-Chlorooctane	58.7		mg/kg	50.0		117	45.3-161		
Surrogate: 1-Chlorooctadecane	63.8		mg/kg	50.0		128	46.3-178		

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Analytical Results For:

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

Project: YOUNG #1
Project Number: 03C2012015
Project Manager: HADLIE GREEN
Fax To:

Reported:
21-Dec-22 12:39

Petroleum Hydrocarbons by GC FID - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2121545 - General Prep - Organics**LCS Dup (2121545-BSD1)**

Prepared: 15-Dec-22 Analyzed: 19-Dec-22

GRO C6-C10	217	10.0	mg/kg	200		109	76.8-124	0.677	17.2	
DRO >C10-C28	210	10.0	mg/kg	200		105	74.9-127	7.78	18.6	
Total TPH C6-C28	428	10.0	mg/kg	400		107	77.5-124	4.23	17.6	
Surrogate: 1-Chlorooctane	55.9		mg/kg	50.0		112	45.3-161			
Surrogate: 1-Chlorooctadecane	65.6		mg/kg	50.0		131	46.3-178			

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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1045

Company Name: <u>Ensoher</u>		P.O. #:		BILL TO		ANALYSIS REQUEST	
Project Manager: <u>Madie Green</u>		Company: <u>STA oil</u>					
Address: <u>322 National Parks Hwy</u>		Attn: <u>Bob Hall</u>					
City: <u>Carlsbad NM</u>		Address: <u>44 S Pecos</u>					
State: <u>NM</u> Zip: <u>88220</u>		City: <u>Carlsbad NM</u>					
Phone #: <u>575-557-8875</u> Fax #:		State: <u>NM</u> Zip: <u>79701</u>					
Project #: <u>05C202065</u> Project Owner:		Phone #:					
Project Name: <u>Young</u>		Fax #:					
Project Location: <u>led Co</u>							
Sampler Name: <u>CS</u>							
FOR LAB USE ONLY							
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX		PRESERV.	SAMPLING
				GROUNDWATER			
				WASTEWATER			
				SOIL			
				OIL			
				SLUDGE			
				OTHER :			
				ACID/BASE:			
				ICE / COOL			
				OTHER :			
				DATE	TIME		
<u>H25917</u>	<u>5440 FS 41</u>	<u>1</u>	<u>1</u>	<u>12-24</u>	<u>915</u>	<u>CHL</u>	<u>✓</u>
	<u>5441</u>	<u>2</u>	<u>1</u>	<u>12-24</u>	<u>920</u>	<u>✓</u>	<u>✓</u>
	<u>5442</u>	<u>3</u>	<u>1</u>	<u>12-24</u>	<u>925</u>	<u>✓</u>	<u>✓</u>
	<u>5443</u>	<u>4</u>	<u>1</u>	<u>12-24</u>	<u>936</u>	<u>✓</u>	<u>✓</u>
	<u>5444</u>	<u>5</u>	<u>1</u>	<u>12-24</u>	<u>935</u>	<u>✓</u>	<u>✓</u>
	<u>5445</u>	<u>6</u>	<u>1</u>	<u>12-24</u>	<u>940</u>	<u>✓</u>	<u>✓</u>
	<u>5446</u>	<u>7</u>	<u>1</u>	<u>12-24</u>	<u>945</u>	<u>✓</u>	<u>✓</u>
	<u>5447</u>	<u>8</u>	<u>1</u>	<u>12-24</u>	<u>950</u>	<u>✓</u>	<u>✓</u>
	<u>5448</u>	<u>9</u>	<u>1</u>	<u>12-24</u>	<u>955</u>	<u>✓</u>	<u>✓</u>
	<u>5449</u>	<u>10</u>	<u>1</u>	<u>12-24</u>	<u>1000</u>	<u>✓</u>	<u>✓</u>
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.							
Relinquished By:		Date: <u>12-15-22</u>		Received By:		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:	
Relinquished By:		Time: <u>1040</u>		Received By:		All Results are emailed. Please provide Email address:	
Date: <u>12-15-22</u>		Time: <u>1040</u>		Received By:		REMARKS: <u>*customer requested sample ID names to be changed. SPZ 12/15/22</u>	
Delivered By: (Circle One)		Observed Temp. °C		Sample Condition		CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other:		Corrected Temp. °C		<input type="checkbox"/> Cool <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Turnaround Time: <u>Standard</u> <input checked="" type="checkbox"/> Rush	
				<input type="checkbox"/> Bacteria (only) <input type="checkbox"/> Sample Condition <input type="checkbox"/> Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Thermometer ID #113 <input type="checkbox"/> Correction Factor -0.6°C	

PORTIN000 R 3.3 07/16/22

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

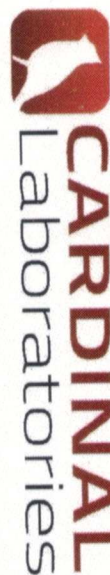
ANALYSIS REQUEST

2045

Company Name:		P.O. #:	
Project Manager:		Company:	
Address:		Attn:	
City:		Address:	
State:		City:	
Zip:		State:	
Phone #:		Fax #:	
Project #:		Project Owner:	
Project Name:		City:	
Project Location:		State:	
Sample Name:		Phone #:	
FOR LAB USE ONLY		Fax #:	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS
H25917	* 28/10/02	GROUNDWATER	WASTEWATER
11 5550 FS 51	41	SOIL	QIL
12 5551	52	SLUDGE	OTHER :
13 5552	53	ACID/BASE:	ICE / COOL
14 5553	54	OTHER :	DATE
15 5554	55	TIME	1005
16 5555	56	1010	1015
17 5556	57	1020	1025
18 5557	58	1030	1035
19 5558	59	1040	1045
20 5559	60	1050	
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Relinquished By:		Turnaround Time:	
Date: 12-15-22		Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	
Time: 1040		Bacteria (only) Sample Condition	
Received By:		Cool <input type="checkbox"/> Intact <input type="checkbox"/>	
Date: 12-15-22		Yes <input type="checkbox"/> No <input type="checkbox"/>	
Time: 1040		Observed Temp. °C	
Corrected Temp. °C		3.6	
Delivered By: (Circle One)		3.0	
Sampler - UPS - Bus - Other:		Corrected Temp. °C	
Remarks: *customer requested sample ID names to be changed. 32 12/21/02		Thermometer ID #113	
Correction Factor -0.6°C		Corrected Temp. °C	
Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
All Results are emailed. Please provide Email address:			

FORM 1000-3-03-07/19/22

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

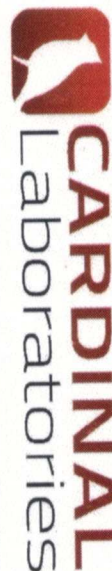
BILL TO				ANALYSIS REQUEST							
Company Name:				P.O. #:							
Project Manager:				Company:							
Address:				Attn:							
City:				State:							
Phone #:				Fax #:							
Project #:				Project Owner:							
Project Location:				City:							
Sample Name:				State:							
Project Location:				Zip:							
Sample Name:				Phone #:							
FOR LAB USE ONLY				Fax #:							
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING	DATE	TIME	CHL	BTX	TPH
H225917	*9818/18/18						12-14	1055	/	/	/
21	5560							1100	/	/	/
22	5561							1105	/	/	/
23	5562							1110	/	/	/
24	5563							1120	/	/	/
25	5564							1130	/	/	/
26	5565							1135	/	/	/
27	5566							1140	/	/	/
28	5567							1145	/	/	/
29	5568							1150	/	/	/
30	5569										

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Relinquished By:	Date: 12-15-22	Received By:	Date: 12-14
Relinquished By:	Date: 12-14	Received By:	Date: 12-14

REMARKS: * customer requested sample ID names to be changed. 3/2 18/18/18

Turnaround Time:	Standard	Rush
Thermometer ID #13		
Correction Factor -0.5°C		
Bacteria (only)	Yes	No
Cool Intact	Yes	No
Corrected Temp. °C		



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: _____ Project Manager: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____ Project #: _____ Project Owner: _____ Project Name: _____ Project Location: _____ Sampler Name: _____ FOR LAB USE ONLY				BILL TO P.O. #: _____ Company: _____ Attn: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____				ANALYSIS REQUEST			
Lab I.D. _____ Sample I.D. _____ H25917 ES 71				(G)RAB OR (C)OMP. _____ # CONTAINERS _____ GROUNDWATER _____ WASTEWATER _____ SOIL _____ OIL _____ SLUDGE _____ OTHER: _____ ACID/BASE: _____ ICE / COOL _____ OTHER: _____				DATE _____ TIME _____ 1214 1155 1200 1205 1210 1220 1225 1230 1240 1245 1250			
Relinquished By: _____ Date: 12-15-22 Time: 1040 Received By: _____ Date: _____ Time: _____				Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: _____ All Results are emailed. Please provide Email address: _____				REMARKS: *customer requested sample TID names to be changed. 12/11/22 Standard <input checked="" type="checkbox"/> Bacteria (only) Sample Condition Rush <input type="checkbox"/> Cool Intact <input type="checkbox"/> Observed Temp. °C Thermometer ID #113 <input type="checkbox"/> Corrected Temp. °C			



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

December 27, 2022

HADLIE GREEN

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: YOUNG #1

Enclosed are the results of analyses for samples received by the laboratory on 12/22/22 11:00.

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/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/22/2022
Reported: 12/27/2022
Project Name: YOUNG #1
Project Number: 03C2012015
Project Location: BTA 32.7672, -103.7298

Sampling Date: 12/22/2022
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 21 A (H226045-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/22/2022	ND	1.99	99.7	2.00	4.31	
Toluene*	<0.050	0.050	12/22/2022	ND	2.15	107	2.00	3.94	
Ethylbenzene*	<0.050	0.050	12/22/2022	ND	2.15	107	2.00	3.59	
Total Xylenes*	<0.150	0.150	12/22/2022	ND	6.61	110	6.00	2.94	
Total BTX	<0.300	0.300	12/22/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	12/22/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/22/2022	ND	211	106	200	3.50	
DRO >C10-C28*	26.6	10.0	12/22/2022	ND	227	113	200	5.39	
EXT DRO >C28-C36	<10.0	10.0	12/22/2022	ND					

Surrogate: 1-Chlorooctane 79.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 79.8 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/22/2022	Sampling Date:	12/22/2022
Reported:	12/27/2022	Sampling Type:	Soil
Project Name:	YOUNG #1	Sampling Condition:	Cool & Intact
Project Number:	03C2012015	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.7672, -103.7298		

Sample ID: FS 48 A (H226045-02)

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	12/27/2022	ND	2.09	104	2.00	6.14		
Toluene*	<0.050	0.050	12/27/2022	ND	2.21	111	2.00	5.44		
Ethylbenzene*	<0.050	0.050	12/27/2022	ND	2.20	110	2.00	5.46		
Total Xylenes*	<0.150	0.150	12/27/2022	ND	6.75	113	6.00	5.67		
Total BTEx	<0.300	0.300	12/27/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	12/22/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/22/2022	ND	211	106	200	3.50	
DRO >C10-C28*	31.0	10.0	12/22/2022	ND	227	113	200	5.39	
EXT DRO >C28-C36	<10.0	10.0	12/22/2022	ND					

Surrogate: 1-Chlorooctane 82.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 82.5 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 12/22/2022
Reported: 12/27/2022
Project Name: YOUNG #1
Project Number: 03C2012015
Project Location: BTA 32.7672, -103.7298

Sampling Date: 12/22/2022
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 66 A (H226045-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/27/2022	ND	2.09	104	2.00	6.14		
Toluene*	<0.050	0.050	12/27/2022	ND	2.21	111	2.00	5.44		
Ethylbenzene*	<0.050	0.050	12/27/2022	ND	2.20	110	2.00	5.46		
Total Xylenes*	<0.150	0.150	12/27/2022	ND	6.75	113	6.00	5.67		
Total BTEx	<0.300	0.300	12/27/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	12/22/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/22/2022	ND	211	106	200	3.50	
DRO >C10-C28*	10.5	10.0	12/22/2022	ND	227	113	200	5.39	
EXT DRO >C28-C36	<10.0	10.0	12/22/2022	ND					

Surrogate: 1-Chlorooctane 80.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 79.9 % 46.3-178

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Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

Company Name: <u>Enselum</u>	P.O. #:
Project Manager: <u>Hodlie Green</u>	Company: <u>BTA Oil</u>
Address: <u>3122 Mariona Parks Hwy</u>	Attn: <u>Bob Hufl</u>
City: <u>Carlsbad</u>	Address: <u>1045 Pecos</u>
State: <u>NM</u> Zip: <u>88220</u>	City: <u>Midland TX</u>
Phone #: <u>432-557-8845</u> Fax #:	State: <u>TX</u> Zip: <u>79701</u>
Project #: <u>03C2612015</u> Project Owner:	Phone #: <u>432-312-2203</u>
Project Name: <u>Long #1 Tank Battery</u>	Fax #:
Project Location: <u>Lea Co</u>	
Sample Name: <u>CB</u>	

FOR LAB USE ONLY		MATRIX		PRESERVATION		SAMPLING																			
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME											
H226045	FS21A					///							12-22	0950	CHL										
	FS48A					///							1600	1010	BTX										
	FS46A					///									TPH										

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Relinquished By: <u>[Signature]</u>	Date: <u>12-22-22</u>	Received By: <u>[Signature]</u>	Date: <u>12-22-22</u>	Time: <u>1100</u>	Time: <u>1100</u>
Relinquished By: <u>[Signature]</u>	Date: <u>12-22-22</u>	Received By: <u>[Signature]</u>	Date: <u>12-22-22</u>	Time: <u>1100</u>	Time: <u>1100</u>
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C <u>3.0</u>	Corrected Temp. °C <u>2.4</u>	Sample Condition <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) <u>Y</u>	Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>
	Thermometer ID #113	Correction Factor -0.6°C	Bacteria (only) Sample Condition Cool Intact <input type="checkbox"/> Observed Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> No	Corrected Temp. °C	

FORM 008 R 3.3 07/18/22

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Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Hadlie Green
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 12/21/2022 2:18:54 PM Revision 1

JOB DESCRIPTION

Young #1 Tank Battery
SDG NUMBER 03C2012015

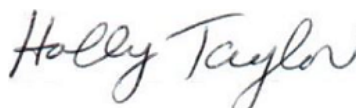
JOB NUMBER

880-22249-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland**Job Notes**

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Generated
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Revision 1

Authorized for release by
Holly Taylor, Project Manager
Holly.Taylor@et.eurofinsus.com
Designee for
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Ensolum
Project/Site: Young #1 Tank Battery

Laboratory Job ID: 880-22249-1
SDG: 03C2012015

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	13
QC Sample Results	14
QC Association Summary	18
Lab Chronicle	21
Certification Summary	24
Method Summary	25
Sample Summary	26
Chain of Custody	27
Receipt Checklists	28

1
2
3
4
5
6
7
8
9
10
11
12
13
14

Definitions/Glossary

Client: Ensolum
Project/Site: Young #1 Tank Battery

Job ID: 880-22249-1
SDG: 03C2012015

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ensolum
Project/Site: Young #1 Tank Battery

Job ID: 880-22249-1
SDG: 03C2012015

Job ID: 880-22249-1

Laboratory: Eurofins Midland

Narrative

Job Narrative 880-22249-1

Revision

The report being provided is a revision of the original report sent on 12/15/2022. The report (revision 1) is being revised to change FS07 to FS83 and FS08 to FS84 per Hadlie Green (email).

Receipt

The samples were received on 12/2/2022 1:48 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.2° C.

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: FS83 (880-22249-7). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

Method 8015B NM: Surrogate recovery for the following sample was outside control limits: (MB 880-41297/1-A). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample Results

Client: Ensolum
Project/Site: Young #1 Tank Battery

Job ID: 880-22249-1
SDG: 03C2012015

Client Sample ID: FS01

Lab Sample ID: 880-22249-1

Date Collected: 12/01/22 09:00

Matrix: Solid

Date Received: 12/02/22 13:48

Sample Depth: 4'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/13/22 10:59	12/14/22 11:25	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/13/22 10:59	12/14/22 11:25	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/13/22 10:59	12/14/22 11:25	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		12/13/22 10:59	12/14/22 11:25	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/13/22 10:59	12/14/22 11:25	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		12/13/22 10:59	12/14/22 11:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	12/13/22 10:59	12/14/22 11:25	1
1,4-Difluorobenzene (Surr)	88		70 - 130	12/13/22 10:59	12/14/22 11:25	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			12/14/22 14:05	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/09/22 20:41	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/07/22 15:29	12/09/22 12:17	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/07/22 15:29	12/09/22 12:17	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/07/22 15:29	12/09/22 12:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130	12/07/22 15:29	12/09/22 12:17	1
o-Terphenyl	115		70 - 130	12/07/22 15:29	12/09/22 12:17	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	27.8		4.97	mg/Kg			12/09/22 11:50	1

Client Sample ID: FS02

Lab Sample ID: 880-22249-2

Date Collected: 12/01/22 09:05

Matrix: Solid

Date Received: 12/02/22 13:48

Sample Depth: 4'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		12/13/22 10:59	12/14/22 19:40	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/13/22 10:59	12/14/22 19:40	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/13/22 10:59	12/14/22 19:40	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		12/13/22 10:59	12/14/22 19:40	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/13/22 10:59	12/14/22 19:40	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/13/22 10:59	12/14/22 19:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	12/13/22 10:59	12/14/22 19:40	1

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Client Sample Results

Client: Ensolum
Project/Site: Young #1 Tank Battery

Job ID: 880-22249-1
SDG: 03C2012015

Client Sample ID: FS02

Lab Sample ID: 880-22249-2

Date Collected: 12/01/22 09:05

Matrix: Solid

Date Received: 12/02/22 13:48

Sample Depth: 4'

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	101		70 - 130	12/13/22 10:59	12/14/22 19:40	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			12/15/22 11:43	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/09/22 20:41	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/07/22 15:29	12/09/22 13:22	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/07/22 15:29	12/09/22 13:22	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/07/22 15:29	12/09/22 13:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130			12/07/22 15:29	12/09/22 13:22	1
o-Terphenyl	110		70 - 130			12/07/22 15:29	12/09/22 13:22	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	55.5		5.02	mg/Kg			12/09/22 11:57	1

Client Sample ID: FS03

Lab Sample ID: 880-22249-3

Date Collected: 12/01/22 09:10

Matrix: Solid

Date Received: 12/02/22 13:48

Sample Depth: 4'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		12/13/22 10:59	12/14/22 20:00	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/13/22 10:59	12/14/22 20:00	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/13/22 10:59	12/14/22 20:00	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		12/13/22 10:59	12/14/22 20:00	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/13/22 10:59	12/14/22 20:00	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/13/22 10:59	12/14/22 20:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	12/13/22 10:59	12/14/22 20:00	1
1,4-Difluorobenzene (Surr)	98		70 - 130	12/13/22 10:59	12/14/22 20:00	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			12/15/22 11:43	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/09/22 20:41	1

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Client Sample Results

Client: Ensolum
Project/Site: Young #1 Tank Battery

Job ID: 880-22249-1
SDG: 03C2012015

Client Sample ID: FS03

Date Collected: 12/01/22 09:10

Date Received: 12/02/22 13:48

Sample Depth: 4'

Lab Sample ID: 880-22249-3

Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/07/22 15:29	12/09/22 13:43	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/07/22 15:29	12/09/22 13:43	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/07/22 15:29	12/09/22 13:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130			12/07/22 15:29	12/09/22 13:43	1
o-Terphenyl	103		70 - 130			12/07/22 15:29	12/09/22 13:43	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	696		5.01	mg/Kg			12/09/22 12:03	1

Client Sample ID: FS04

Date Collected: 12/01/22 09:15

Date Received: 12/02/22 13:48

Sample Depth: 4'

Lab Sample ID: 880-22249-4

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/13/22 10:59	12/14/22 20:21	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/13/22 10:59	12/14/22 20:21	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/13/22 10:59	12/14/22 20:21	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		12/13/22 10:59	12/14/22 20:21	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/13/22 10:59	12/14/22 20:21	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		12/13/22 10:59	12/14/22 20:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130			12/13/22 10:59	12/14/22 20:21	1
1,4-Difluorobenzene (Surr)	102		70 - 130			12/13/22 10:59	12/14/22 20:21	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			12/15/22 11:43	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/09/22 20:41	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/07/22 15:29	12/09/22 14:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/07/22 15:29	12/09/22 14:04	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/07/22 15:29	12/09/22 14:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130			12/07/22 15:29	12/09/22 14:04	1
o-Terphenyl	107		70 - 130			12/07/22 15:29	12/09/22 14:04	1

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Client Sample Results

Client: Ensolum
Project/Site: Young #1 Tank Battery

Job ID: 880-22249-1
SDG: 03C2012015

Client Sample ID: FS04

Lab Sample ID: 880-22249-4

Date Collected: 12/01/22 09:15

Matrix: Solid

Date Received: 12/02/22 13:48

Sample Depth: 4'

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	570		4.98	mg/Kg			12/09/22 12:10	1

Client Sample ID: FS05

Lab Sample ID: 880-22249-5

Date Collected: 12/01/22 09:20

Matrix: Solid

Date Received: 12/02/22 13:48

Sample Depth: 4'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		12/13/22 10:59	12/14/22 20:41	1
Toluene	<0.00201	U	0.00201	mg/Kg		12/13/22 10:59	12/14/22 20:41	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		12/13/22 10:59	12/14/22 20:41	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		12/13/22 10:59	12/14/22 20:41	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		12/13/22 10:59	12/14/22 20:41	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		12/13/22 10:59	12/14/22 20:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130			12/13/22 10:59	12/14/22 20:41	1
1,4-Difluorobenzene (Surr)	99		70 - 130			12/13/22 10:59	12/14/22 20:41	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			12/15/22 11:43	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/09/22 20:41	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/07/22 15:29	12/09/22 14:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/07/22 15:29	12/09/22 14:26	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/07/22 15:29	12/09/22 14:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130			12/07/22 15:29	12/09/22 14:26	1
o-Terphenyl	115		70 - 130			12/07/22 15:29	12/09/22 14:26	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	932		5.03	mg/Kg			12/09/22 12:30	1

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Client Sample Results

Client: Ensolum
Project/Site: Young #1 Tank Battery

Job ID: 880-22249-1
SDG: 03C2012015

Client Sample ID: FS06

Lab Sample ID: 880-22249-6

Date Collected: 12/01/22 09:25

Matrix: Solid

Date Received: 12/02/22 13:48

Sample Depth: 4'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/13/22 10:59	12/14/22 21:02	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/13/22 10:59	12/14/22 21:02	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/13/22 10:59	12/14/22 21:02	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		12/13/22 10:59	12/14/22 21:02	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/13/22 10:59	12/14/22 21:02	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		12/13/22 10:59	12/14/22 21:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	12/13/22 10:59	12/14/22 21:02	1
1,4-Difluorobenzene (Surr)	97		70 - 130	12/13/22 10:59	12/14/22 21:02	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			12/15/22 11:43	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/09/22 20:41	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/07/22 15:29	12/09/22 14:48	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/07/22 15:29	12/09/22 14:48	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/07/22 15:29	12/09/22 14:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130	12/07/22 15:29	12/09/22 14:48	1
o-Terphenyl	112		70 - 130	12/07/22 15:29	12/09/22 14:48	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	183		4.96	mg/Kg			12/09/22 12:37	1

Client Sample ID: FS83

Lab Sample ID: 880-22249-7

Date Collected: 12/01/22 10:15

Matrix: Solid

Date Received: 12/02/22 13:48

Sample Depth: 4'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		12/13/22 10:59	12/14/22 21:22	1
Toluene	<0.00198	U	0.00198	mg/Kg		12/13/22 10:59	12/14/22 21:22	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		12/13/22 10:59	12/14/22 21:22	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		12/13/22 10:59	12/14/22 21:22	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		12/13/22 10:59	12/14/22 21:22	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		12/13/22 10:59	12/14/22 21:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130	12/13/22 10:59	12/14/22 21:22	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: Young #1 Tank Battery

Job ID: 880-22249-1
SDG: 03C2012015

Client Sample ID: FS83

Lab Sample ID: 880-22249-7

Date Collected: 12/01/22 10:15

Matrix: Solid

Date Received: 12/02/22 13:48

Sample Depth: 4'

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	97		70 - 130	12/13/22 10:59	12/14/22 21:22	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			12/15/22 11:43	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	385		49.8	mg/Kg			12/09/22 20:41	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		12/07/22 15:29	12/09/22 15:09	1
Diesel Range Organics (Over C10-C28)	238		49.8	mg/Kg		12/07/22 15:29	12/09/22 15:09	1
Oil Range Organics (Over C28-C36)	147		49.8	mg/Kg		12/07/22 15:29	12/09/22 15:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130			12/07/22 15:29	12/09/22 15:09	1
o-Terphenyl	110		70 - 130			12/07/22 15:29	12/09/22 15:09	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	137		4.99	mg/Kg			12/09/22 12:43	1

Client Sample ID: FS84

Lab Sample ID: 880-22249-8

Date Collected: 12/01/22 10:20

Matrix: Solid

Date Received: 12/02/22 13:48

Sample Depth: 4'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/13/22 10:59	12/14/22 21:43	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/13/22 10:59	12/14/22 21:43	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/13/22 10:59	12/14/22 21:43	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		12/13/22 10:59	12/14/22 21:43	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/13/22 10:59	12/14/22 21:43	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		12/13/22 10:59	12/14/22 21:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130			12/13/22 10:59	12/14/22 21:43	1
1,4-Difluorobenzene (Surr)	98		70 - 130			12/13/22 10:59	12/14/22 21:43	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			12/15/22 11:43	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: Young #1 Tank Battery

Job ID: 880-22249-1
SDG: 03C2012015

Client Sample ID: FS84

Lab Sample ID: 880-22249-8

Date Collected: 12/01/22 10:20

Matrix: Solid

Date Received: 12/02/22 13:48

Sample Depth: 4'

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/09/22 20:41	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/07/22 15:29	12/09/22 15:30	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/07/22 15:29	12/09/22 15:30	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/07/22 15:29	12/09/22 15:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130	12/07/22 15:29	12/09/22 15:30	1
o-Terphenyl	116		70 - 130	12/07/22 15:29	12/09/22 15:30	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	448		5.04	mg/Kg			12/09/22 12:50	1

Surrogate Summary

Client: Ensolum
Project/Site: Young #1 Tank Battery

Job ID: 880-22249-1
SDG: 03C2012015

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-22249-1	FS01	107	88
880-22249-1 MS	FS01	106	96
880-22249-1 MSD	FS01	99	93
880-22249-2	FS02	115	101
880-22249-3	FS03	115	98
880-22249-4	FS04	115	102
880-22249-5	FS05	112	99
880-22249-6	FS06	116	97
880-22249-7	FS83	134 S1+	97
880-22249-8	FS84	115	98
LCS 880-41731/1-A	Lab Control Sample	93	90
LCSD 880-41731/2-A	Lab Control Sample Dup	97	94
MB 880-41731/5-A	Method Blank	102	91
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-22249-1	FS01	107	115
880-22249-1 MS	FS01	92	89
880-22249-1 MSD	FS01	94	89
880-22249-2	FS02	104	110
880-22249-3	FS03	99	103
880-22249-4	FS04	101	107
880-22249-5	FS05	109	115
880-22249-6	FS06	106	112
880-22249-7	FS83	104	110
880-22249-8	FS84	109	116
LCS 880-41297/2-A	Lab Control Sample	92	95
LCSD 880-41297/3-A	Lab Control Sample Dup	88	91
MB 880-41297/1-A	Method Blank	102	140 S1+
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

Eurofins Midland

QC Sample Results

Client: Ensolum
Project/Site: Young #1 Tank Battery

Job ID: 880-22249-1
SDG: 03C2012015

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-41731/5-A

Matrix: Solid

Analysis Batch: 41784

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 41731

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/13/22 10:59	12/14/22 11:03	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/13/22 10:59	12/14/22 11:03	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/13/22 10:59	12/14/22 11:03	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		12/13/22 10:59	12/14/22 11:03	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/13/22 10:59	12/14/22 11:03	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		12/13/22 10:59	12/14/22 11:03	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	12/13/22 10:59	12/14/22 11:03	1
1,4-Difluorobenzene (Surr)	91		70 - 130	12/13/22 10:59	12/14/22 11:03	1

Lab Sample ID: LCS 880-41731/1-A

Matrix: Solid

Analysis Batch: 41784

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 41731

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09982		mg/Kg		100	70 - 130
Toluene	0.100	0.09417		mg/Kg		94	70 - 130
Ethylbenzene	0.100	0.08987		mg/Kg		90	70 - 130
m-Xylene & p-Xylene	0.200	0.1951		mg/Kg		98	70 - 130
o-Xylene	0.100	0.09613		mg/Kg		96	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		70 - 130
1,4-Difluorobenzene (Surr)	90		70 - 130

Lab Sample ID: LCSD 880-41731/2-A

Matrix: Solid

Analysis Batch: 41784

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 41731

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1034		mg/Kg		103	70 - 130	3	35
Toluene	0.100	0.09587		mg/Kg		96	70 - 130	2	35
Ethylbenzene	0.100	0.09272		mg/Kg		93	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.2006		mg/Kg		100	70 - 130	3	35
o-Xylene	0.100	0.09897		mg/Kg		99	70 - 130	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: 880-22249-1 MS

Matrix: Solid

Analysis Batch: 41784

Client Sample ID: FS01

Prep Type: Total/NA

Prep Batch: 41731

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.07547		mg/Kg		75	70 - 130
Toluene	<0.00200	U	0.100	0.07112		mg/Kg		71	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: Young #1 Tank Battery

Job ID: 880-22249-1
SDG: 03C2012015

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-22249-1 MS

Matrix: Solid

Analysis Batch: 41784

Client Sample ID: FS01

Prep Type: Total/NA

Prep Batch: 41731

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.100	0.07125		mg/Kg		71	70 - 130
m-Xylene & p-Xylene	<0.00401	U	0.201	0.1577		mg/Kg		79	70 - 130
o-Xylene	<0.00200	U	0.100	0.08037		mg/Kg		80	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: 880-22249-1 MSD

Matrix: Solid

Analysis Batch: 41784

Client Sample ID: FS01

Prep Type: Total/NA

Prep Batch: 41731

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	<0.00200	U	0.0990	0.09035		mg/Kg		91	70 - 130	18	35
Toluene	<0.00200	U	0.0990	0.08427		mg/Kg		85	70 - 130	17	35
Ethylbenzene	<0.00200	U	0.0990	0.08013		mg/Kg		81	70 - 130	12	35
m-Xylene & p-Xylene	<0.00401	U	0.198	0.1746		mg/Kg		88	70 - 130	10	35
o-Xylene	<0.00200	U	0.0990	0.08823		mg/Kg		89	70 - 130	9	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-41297/1-A

Matrix: Solid

Analysis Batch: 41416

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 41297

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/07/22 15:29	12/09/22 09:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/07/22 15:29	12/09/22 09:49	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/07/22 15:29	12/09/22 09:49	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130	12/07/22 15:29	12/09/22 09:49	1
o-Terphenyl	140	S1+	70 - 130	12/07/22 15:29	12/09/22 09:49	1

Lab Sample ID: LCS 880-41297/2-A

Matrix: Solid

Analysis Batch: 41416

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 41297

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	890.6		mg/Kg		89	70 - 130
Diesel Range Organics (Over C10-C28)	1000	865.8		mg/Kg		87	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: Young #1 Tank Battery

Job ID: 880-22249-1
SDG: 03C2012015

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-41297/2-A

Matrix: Solid

Analysis Batch: 41416

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 41297

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	92		70 - 130
o-Terphenyl	95		70 - 130

Lab Sample ID: LCSD 880-41297/3-A

Matrix: Solid

Analysis Batch: 41416

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 41297

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	837.9		mg/Kg		84	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	1000	863.4		mg/Kg		86	70 - 130	0	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	88		70 - 130
o-Terphenyl	91		70 - 130

Lab Sample ID: 880-22249-1 MS

Matrix: Solid

Analysis Batch: 41416

Client Sample ID: FS01

Prep Type: Total/NA

Prep Batch: 41297

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	1020		mg/Kg		100	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	999	738.0		mg/Kg		74	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	92		70 - 130
o-Terphenyl	89		70 - 130

Lab Sample ID: 880-22249-1 MSD

Matrix: Solid

Analysis Batch: 41416

Client Sample ID: FS01

Prep Type: Total/NA

Prep Batch: 41297

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	997	899.1		mg/Kg		88	70 - 130	13	20
Diesel Range Organics (Over C10-C28)	<50.0	U	997	739.3		mg/Kg		74	70 - 130	0	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	94		70 - 130
o-Terphenyl	89		70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: Young #1 Tank Battery

Job ID: 880-22249-1
SDG: 03C2012015

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-40994/1-A

Matrix: Solid

Analysis Batch: 41276

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			12/09/22 11:10	1

Lab Sample ID: LCS 880-40994/2-A

Matrix: Solid

Analysis Batch: 41276

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	262.5		mg/Kg		105	90 - 110

Lab Sample ID: LCSD 880-40994/3-A

Matrix: Solid

Analysis Batch: 41276

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	263.2		mg/Kg		105	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: Young #1 Tank Battery

Job ID: 880-22249-1
SDG: 03C2012015

GC VOA

Prep Batch: 41731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22249-1	FS01	Total/NA	Solid	5035	
880-22249-2	FS02	Total/NA	Solid	5035	
880-22249-3	FS03	Total/NA	Solid	5035	
880-22249-4	FS04	Total/NA	Solid	5035	
880-22249-5	FS05	Total/NA	Solid	5035	
880-22249-6	FS06	Total/NA	Solid	5035	
880-22249-7	FS83	Total/NA	Solid	5035	
880-22249-8	FS84	Total/NA	Solid	5035	
MB 880-41731/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-41731/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-41731/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-22249-1 MS	FS01	Total/NA	Solid	5035	
880-22249-1 MSD	FS01	Total/NA	Solid	5035	

Analysis Batch: 41784

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22249-1	FS01	Total/NA	Solid	8021B	41731
880-22249-2	FS02	Total/NA	Solid	8021B	41731
880-22249-3	FS03	Total/NA	Solid	8021B	41731
880-22249-4	FS04	Total/NA	Solid	8021B	41731
880-22249-5	FS05	Total/NA	Solid	8021B	41731
880-22249-6	FS06	Total/NA	Solid	8021B	41731
880-22249-7	FS83	Total/NA	Solid	8021B	41731
880-22249-8	FS84	Total/NA	Solid	8021B	41731
MB 880-41731/5-A	Method Blank	Total/NA	Solid	8021B	41731
LCS 880-41731/1-A	Lab Control Sample	Total/NA	Solid	8021B	41731
LCSD 880-41731/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	41731
880-22249-1 MS	FS01	Total/NA	Solid	8021B	41731
880-22249-1 MSD	FS01	Total/NA	Solid	8021B	41731

Analysis Batch: 41837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22249-1	FS01	Total/NA	Solid	Total BTEX	
880-22249-2	FS02	Total/NA	Solid	Total BTEX	
880-22249-3	FS03	Total/NA	Solid	Total BTEX	
880-22249-4	FS04	Total/NA	Solid	Total BTEX	
880-22249-5	FS05	Total/NA	Solid	Total BTEX	
880-22249-6	FS06	Total/NA	Solid	Total BTEX	
880-22249-7	FS83	Total/NA	Solid	Total BTEX	
880-22249-8	FS84	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 41297

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22249-1	FS01	Total/NA	Solid	8015NM Prep	
880-22249-2	FS02	Total/NA	Solid	8015NM Prep	
880-22249-3	FS03	Total/NA	Solid	8015NM Prep	
880-22249-4	FS04	Total/NA	Solid	8015NM Prep	
880-22249-5	FS05	Total/NA	Solid	8015NM Prep	
880-22249-6	FS06	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Ensolum
Project/Site: Young #1 Tank Battery

Job ID: 880-22249-1
SDG: 03C2012015

GC Semi VOA (Continued)

Prep Batch: 41297 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22249-7	FS83	Total/NA	Solid	8015NM Prep	
880-22249-8	FS84	Total/NA	Solid	8015NM Prep	
MB 880-41297/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-41297/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-41297/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-22249-1 MS	FS01	Total/NA	Solid	8015NM Prep	
880-22249-1 MSD	FS01	Total/NA	Solid	8015NM Prep	

Analysis Batch: 41416

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22249-1	FS01	Total/NA	Solid	8015B NM	41297
880-22249-2	FS02	Total/NA	Solid	8015B NM	41297
880-22249-3	FS03	Total/NA	Solid	8015B NM	41297
880-22249-4	FS04	Total/NA	Solid	8015B NM	41297
880-22249-5	FS05	Total/NA	Solid	8015B NM	41297
880-22249-6	FS06	Total/NA	Solid	8015B NM	41297
880-22249-7	FS83	Total/NA	Solid	8015B NM	41297
880-22249-8	FS84	Total/NA	Solid	8015B NM	41297
MB 880-41297/1-A	Method Blank	Total/NA	Solid	8015B NM	41297
LCS 880-41297/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	41297
LCSD 880-41297/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	41297
880-22249-1 MS	FS01	Total/NA	Solid	8015B NM	41297
880-22249-1 MSD	FS01	Total/NA	Solid	8015B NM	41297

Analysis Batch: 41505

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22249-1	FS01	Total/NA	Solid	8015 NM	
880-22249-2	FS02	Total/NA	Solid	8015 NM	
880-22249-3	FS03	Total/NA	Solid	8015 NM	
880-22249-4	FS04	Total/NA	Solid	8015 NM	
880-22249-5	FS05	Total/NA	Solid	8015 NM	
880-22249-6	FS06	Total/NA	Solid	8015 NM	
880-22249-7	FS83	Total/NA	Solid	8015 NM	
880-22249-8	FS84	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 40994

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22249-1	FS01	Soluble	Solid	DI Leach	
880-22249-2	FS02	Soluble	Solid	DI Leach	
880-22249-3	FS03	Soluble	Solid	DI Leach	
880-22249-4	FS04	Soluble	Solid	DI Leach	
880-22249-5	FS05	Soluble	Solid	DI Leach	
880-22249-6	FS06	Soluble	Solid	DI Leach	
880-22249-7	FS83	Soluble	Solid	DI Leach	
880-22249-8	FS84	Soluble	Solid	DI Leach	
MB 880-40994/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-40994/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-40994/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Ensolum
Project/Site: Young #1 Tank Battery

Job ID: 880-22249-1
SDG: 03C2012015

HPLC/IC

Analysis Batch: 41276

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22249-1	FS01	Soluble	Solid	300.0	40994
880-22249-2	FS02	Soluble	Solid	300.0	40994
880-22249-3	FS03	Soluble	Solid	300.0	40994
880-22249-4	FS04	Soluble	Solid	300.0	40994
880-22249-5	FS05	Soluble	Solid	300.0	40994
880-22249-6	FS06	Soluble	Solid	300.0	40994
880-22249-7	FS83	Soluble	Solid	300.0	40994
880-22249-8	FS84	Soluble	Solid	300.0	40994
MB 880-40994/1-A	Method Blank	Soluble	Solid	300.0	40994
LCS 880-40994/2-A	Lab Control Sample	Soluble	Solid	300.0	40994
LCSD 880-40994/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	40994

Lab Chronicle

Client: Ensolum
Project/Site: Young #1 Tank Battery

Job ID: 880-22249-1
SDG: 03C2012015

Client Sample ID: FS01

Lab Sample ID: 880-22249-1

Date Collected: 12/01/22 09:00

Matrix: Solid

Date Received: 12/02/22 13:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			41731	MNR	EET MID	12/13/22 10:59
Total/NA	Analysis	8021B		1	41784	MNR	EET MID	12/14/22 11:25
Total/NA	Analysis	Total BTEX		1	41837	SM	EET MID	12/14/22 14:05
Total/NA	Analysis	8015 NM		1	41505	AJ	EET MID	12/09/22 20:41
Total/NA	Prep	8015NM Prep			41297	DM	EET MID	12/07/22 15:29
Total/NA	Analysis	8015B NM		1	41416	AJ	EET MID	12/09/22 12:17
Soluble	Leach	DI Leach			40994	SMC	EET MID	12/05/22 09:48
Soluble	Analysis	300.0		1	41276	CH	EET MID	12/09/22 11:50

Client Sample ID: FS02

Lab Sample ID: 880-22249-2

Date Collected: 12/01/22 09:05

Matrix: Solid

Date Received: 12/02/22 13:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			41731	MNR	EET MID	12/13/22 10:59
Total/NA	Analysis	8021B		1	41784	MNR	EET MID	12/14/22 19:40
Total/NA	Analysis	Total BTEX		1	41837	SM	EET MID	12/15/22 11:43
Total/NA	Analysis	8015 NM		1	41505	AJ	EET MID	12/09/22 20:41
Total/NA	Prep	8015NM Prep			41297	DM	EET MID	12/07/22 15:29
Total/NA	Analysis	8015B NM		1	41416	AJ	EET MID	12/09/22 13:22
Soluble	Leach	DI Leach			40994	SMC	EET MID	12/05/22 09:48
Soluble	Analysis	300.0		1	41276	CH	EET MID	12/09/22 11:57

Client Sample ID: FS03

Lab Sample ID: 880-22249-3

Date Collected: 12/01/22 09:10

Matrix: Solid

Date Received: 12/02/22 13:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			41731	MNR	EET MID	12/13/22 10:59
Total/NA	Analysis	8021B		1	41784	MNR	EET MID	12/14/22 20:00
Total/NA	Analysis	Total BTEX		1	41837	SM	EET MID	12/15/22 11:43
Total/NA	Analysis	8015 NM		1	41505	AJ	EET MID	12/09/22 20:41
Total/NA	Prep	8015NM Prep			41297	DM	EET MID	12/07/22 15:29
Total/NA	Analysis	8015B NM		1	41416	AJ	EET MID	12/09/22 13:43
Soluble	Leach	DI Leach			40994	SMC	EET MID	12/05/22 09:48
Soluble	Analysis	300.0		1	41276	CH	EET MID	12/09/22 12:03

Client Sample ID: FS04

Lab Sample ID: 880-22249-4

Date Collected: 12/01/22 09:15

Matrix: Solid

Date Received: 12/02/22 13:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			41731	MNR	EET MID	12/13/22 10:59
Total/NA	Analysis	8021B		1	41784	MNR	EET MID	12/14/22 20:21
Total/NA	Analysis	Total BTEX		1	41837	SM	EET MID	12/15/22 11:43

Eurofins Midland

Lab Chronicle

Client: Ensolum
Project/Site: Young #1 Tank Battery

Job ID: 880-22249-1
SDG: 03C2012015

Client Sample ID: FS04

Lab Sample ID: 880-22249-4

Date Collected: 12/01/22 09:15

Matrix: Solid

Date Received: 12/02/22 13:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015 NM		1	41505	AJ	EET MID	12/09/22 20:41
Total/NA	Prep	8015NM Prep			41297	DM	EET MID	12/07/22 15:29
Total/NA	Analysis	8015B NM		1	41416	AJ	EET MID	12/09/22 14:04
Soluble	Leach	DI Leach			40994	SMC	EET MID	12/05/22 09:48
Soluble	Analysis	300.0		1	41276	CH	EET MID	12/09/22 12:10

Client Sample ID: FS05

Lab Sample ID: 880-22249-5

Date Collected: 12/01/22 09:20

Matrix: Solid

Date Received: 12/02/22 13:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			41731	MNR	EET MID	12/13/22 10:59
Total/NA	Analysis	8021B		1	41784	MNR	EET MID	12/14/22 20:41
Total/NA	Analysis	Total BTEX		1	41837	SM	EET MID	12/15/22 11:43
Total/NA	Analysis	8015 NM		1	41505	AJ	EET MID	12/09/22 20:41
Total/NA	Prep	8015NM Prep			41297	DM	EET MID	12/07/22 15:29
Total/NA	Analysis	8015B NM		1	41416	AJ	EET MID	12/09/22 14:26
Soluble	Leach	DI Leach			40994	SMC	EET MID	12/05/22 09:48
Soluble	Analysis	300.0		1	41276	CH	EET MID	12/09/22 12:30

Client Sample ID: FS06

Lab Sample ID: 880-22249-6

Date Collected: 12/01/22 09:25

Matrix: Solid

Date Received: 12/02/22 13:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			41731	MNR	EET MID	12/13/22 10:59
Total/NA	Analysis	8021B		1	41784	MNR	EET MID	12/14/22 21:02
Total/NA	Analysis	Total BTEX		1	41837	SM	EET MID	12/15/22 11:43
Total/NA	Analysis	8015 NM		1	41505	AJ	EET MID	12/09/22 20:41
Total/NA	Prep	8015NM Prep			41297	DM	EET MID	12/07/22 15:29
Total/NA	Analysis	8015B NM		1	41416	AJ	EET MID	12/09/22 14:48
Soluble	Leach	DI Leach			40994	SMC	EET MID	12/05/22 09:48
Soluble	Analysis	300.0		1	41276	CH	EET MID	12/09/22 12:37

Client Sample ID: FS83

Lab Sample ID: 880-22249-7

Date Collected: 12/01/22 10:15

Matrix: Solid

Date Received: 12/02/22 13:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			41731	MNR	EET MID	12/13/22 10:59
Total/NA	Analysis	8021B		1	41784	MNR	EET MID	12/14/22 21:22
Total/NA	Analysis	Total BTEX		1	41837	SM	EET MID	12/15/22 11:43
Total/NA	Analysis	8015 NM		1	41505	AJ	EET MID	12/09/22 20:41
Total/NA	Prep	8015NM Prep			41297	DM	EET MID	12/07/22 15:29
Total/NA	Analysis	8015B NM		1	41416	AJ	EET MID	12/09/22 15:09

Eurofins Midland

Lab Chronicle

Client: Ensolum
Project/Site: Young #1 Tank Battery

Job ID: 880-22249-1
SDG: 03C2012015

Client Sample ID: FS83

Lab Sample ID: 880-22249-7

Date Collected: 12/01/22 10:15

Matrix: Solid

Date Received: 12/02/22 13:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			40994	SMC	EET MID	12/05/22 09:48
Soluble	Analysis	300.0		1	41276	CH	EET MID	12/09/22 12:43

Client Sample ID: FS84

Lab Sample ID: 880-22249-8

Date Collected: 12/01/22 10:20

Matrix: Solid

Date Received: 12/02/22 13:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			41731	MNR	EET MID	12/13/22 10:59
Total/NA	Analysis	8021B		1	41784	MNR	EET MID	12/14/22 21:43
Total/NA	Analysis	Total BTEX		1	41837	SM	EET MID	12/15/22 11:43
Total/NA	Analysis	8015 NM		1	41505	AJ	EET MID	12/09/22 20:41
Total/NA	Prep	8015NM Prep			41297	DM	EET MID	12/07/22 15:29
Total/NA	Analysis	8015B NM		1	41416	AJ	EET MID	12/09/22 15:30
Soluble	Leach	DI Leach			40994	SMC	EET MID	12/05/22 09:48
Soluble	Analysis	300.0		1	41276	CH	EET MID	12/09/22 12:50

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Young #1 Tank Battery

Job ID: 880-22249-1
SDG: 03C2012015

Laboratory: Eurofins Midland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
N/A	N/A	None on record.	

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Method Summary

Client: Ensolum
Project/Site: Young #1 Tank Battery

Job ID: 880-22249-1
SDG: 03C2012015

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	MCAWW	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Midland

Sample Summary

Client: Ensolum
Project/Site: Young #1 Tank Battery

Job ID: 880-22249-1
SDG: 03C2012015

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-22249-1	FS01	Solid	12/01/22 09:00	12/02/22 13:48	4'
880-22249-2	FS02	Solid	12/01/22 09:05	12/02/22 13:48	4'
880-22249-3	FS03	Solid	12/01/22 09:10	12/02/22 13:48	4'
880-22249-4	FS04	Solid	12/01/22 09:15	12/02/22 13:48	4'
880-22249-5	FS05	Solid	12/01/22 09:20	12/02/22 13:48	4'
880-22249-6	FS06	Solid	12/01/22 09:25	12/02/22 13:48	4'
880-22249-7	FS83	Solid	12/01/22 10:15	12/02/22 13:48	4'
880-22249-8	FS84	Solid	12/01/22 10:20	12/02/22 13:48	4'

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Houston TX (281) 240-4200 Dallas TX (214) 902-0300
Midland TX (432) 704-5440 San Antonio TX (210) 509-3334
EL Paso TX (915) 585-3443 Lubbock TX (806) 794-1296
Hobbs NM (575) 392-7550 Carlsbad NM (575) 988-3199

Chain of Custody

Work Order No: 22049

www.xenco.com Page 1 of 1

Project Manager	Hadlie Green	Bill to (if different)	Bob Hall
Company Name	Ensolum, LLC	Company Name	BTA Oil
Address	3122 Nat'l Parks Hwy	Address	104 S Pecos St
City, State ZIP	Carlsbad NM 86220	City, State ZIP	Midland TX 79701
Phone	432-557-8895	Email	hgreen@ensolum.com

Work Order Comments	
Program: UST/PST	<input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund
State of Project:	
Reporting Level II	<input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV
Deliverables	EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other

Project Name	Young #1 Tank Battery	Turn Around	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush	Pres. Code	
Project Number	03C2012015	Due Date			
Project Location	32 767224, -103 729807	TAT starts the day received by the lab if received by 4 30pm			
Sampler's Name	Juliana Falcomata				
PO #					

SAMPLE RECEIPT	Temp Blank:	Yes	No	Wet Ice	Yes	No
Samples Received Intact:	Yes	No	Thermometer ID:	T-NM-207		
Cooler Custody Seals:	Yes	No	Correction Factor:			
Sample Custody Seals:	Yes	No	Temperature Reading	2.2		
Total Containers			Corrected Temperature			

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab Comp	# of Cont	ANALYSIS REQUEST	Preservative Codes
ESD1	S	12-1-22	0900	4'	Q	1	CHLORIDES (EPA 300.0)	
ESD2	S	12-1-22	0905	4'	Q	1	TPH (8015)	
ESD3	S	12-1-22	0910	4'	Q	1	BTEX (8021)	
ESD4	S	12-1-22	0915	4'	Q	1		
ESD5	S	12-1-22	0920	4'	Q	1		
ESD6	S	12-1-22	0925	4'	Q	1		
ESD7	S	12-1-22	1015	4'	Q	1		
ESD8	S	12-1-22	1020	4'	C	1		

Total 200.7 / 6010	200.8 / 6020:	8RCRA 13PPM	Texas 11	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	SiO ₂	Na	Sr	Ti	Sn	U	V	Zn
Circle Method(s) and Metal(s) to be analyzed		TCLP / SPLP 6010	8RCRA	Sb	As	Ba	Be	Cd	Cr	Co	Cu	Pb	Mn	Mo	Ni	Se	Ag	Ti	U	Hg	1631 / 2451 / 7470 / 7471										

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
		12-2-22 13:48			

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-22249-1

SDG Number: 03C2012015

Login Number: 22249

List Number: 1

Creator: Kramer, Jessica

List Source: Eurofins Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Hadlie Green

Ensolum

601 N. Marienfeld St.

Suite 400

Midland, Texas 79701

Generated 12/16/2022 1:23:11 PM

JOB DESCRIPTION

Young #1 Tank Battery
SDG NUMBER 03C2012015

JOB NUMBER

880-22250-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland

Job Notes

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
12/16/2022 1:23:11 PM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Ensolum
Project/Site: Young #1 Tank Battery

Laboratory Job ID: 880-22250-1
SDG: 03C2012015

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	10
QC Sample Results	11
QC Association Summary	14
Lab Chronicle	16
Certification Summary	18
Method Summary	19
Sample Summary	20
Chain of Custody	21
Receipt Checklists	22

1
2
3
4
5
6
7
8
9
10
11
12
13
14

Definitions/Glossary

Client: Ensolum
Project/Site: Young #1 Tank Battery

Job ID: 880-22250-1
SDG: 03C2012015

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ensolum
Project/Site: Young #1 Tank Battery

Job ID: 880-22250-1
SDG: 03C2012015

Job ID: 880-22250-1

Laboratory: Eurofins Midland

Narrative**Job Narrative
880-22250-1****Receipt**

The samples were received on 12/2/2022 1:48 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.6°C

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: (LCSD 880-41760/2-A). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-41278 and analytical batch 880-41411 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-41278/2-A) and (LCSD 880-41278/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (880-22201-A-1-B). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: SW08 (880-22250-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: SW01 (880-22250-3), SW02 (880-22250-4) and SW10 (880-22250-5). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Ensolum
Project/Site: Young #1 Tank Battery

Job ID: 880-22250-1
SDG: 03C2012015

Client Sample ID: SW08

Lab Sample ID: 880-22250-1

Date Collected: 12/02/22 11:20

Matrix: Solid

Date Received: 12/02/22 13:48

Sample Depth: 0 - 4'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		12/16/22 09:12	12/16/22 11:36	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/16/22 09:12	12/16/22 11:36	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/16/22 09:12	12/16/22 11:36	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		12/16/22 09:12	12/16/22 11:36	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/16/22 09:12	12/16/22 11:36	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/16/22 09:12	12/16/22 11:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130	12/16/22 09:12	12/16/22 11:36	1
1,4-Difluorobenzene (Surr)	88		70 - 130	12/16/22 09:12	12/16/22 11:36	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			12/16/22 13:48	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/12/22 10:49	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/07/22 12:02	12/09/22 18:40	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/07/22 12:02	12/09/22 18:40	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/07/22 12:02	12/09/22 18:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	139	S1+	70 - 130	12/07/22 12:02	12/09/22 18:40	1
o-Terphenyl	140	S1+	70 - 130	12/07/22 12:02	12/09/22 18:40	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20.3		4.95	mg/Kg			12/09/22 12:57	1

Client Sample ID: SW09

Lab Sample ID: 880-22250-2

Date Collected: 12/02/22 11:25

Matrix: Solid

Date Received: 12/02/22 13:48

Sample Depth: 0 - 4'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/16/22 09:12	12/16/22 11:56	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/16/22 09:12	12/16/22 11:56	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/16/22 09:12	12/16/22 11:56	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		12/16/22 09:12	12/16/22 11:56	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/16/22 09:12	12/16/22 11:56	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		12/16/22 09:12	12/16/22 11:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	12/16/22 09:12	12/16/22 11:56	1

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Client Sample Results

Client: Ensolum
Project/Site: Young #1 Tank Battery

Job ID: 880-22250-1
SDG: 03C2012015

Client Sample ID: SW09

Lab Sample ID: 880-22250-2

Date Collected: 12/02/22 11:25

Matrix: Solid

Date Received: 12/02/22 13:48

Sample Depth: 0 - 4'

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	97		70 - 130	12/16/22 09:12	12/16/22 11:56	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			12/16/22 13:48	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/12/22 10:49	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/07/22 12:02	12/09/22 19:01	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/07/22 12:02	12/09/22 19:01	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/07/22 12:02	12/09/22 19:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	130		70 - 130			12/07/22 12:02	12/09/22 19:01	1
o-Terphenyl	130		70 - 130			12/07/22 12:02	12/09/22 19:01	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.3		5.02	mg/Kg			12/09/22 13:03	1

Client Sample ID: SW01

Lab Sample ID: 880-22250-3

Date Collected: 12/02/22 11:30

Matrix: Solid

Date Received: 12/02/22 13:48

Sample Depth: 0 - 4'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/16/22 09:12	12/16/22 12:17	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/16/22 09:12	12/16/22 12:17	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/16/22 09:12	12/16/22 12:17	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		12/16/22 09:12	12/16/22 12:17	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/16/22 09:12	12/16/22 12:17	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		12/16/22 09:12	12/16/22 12:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	12/16/22 09:12	12/16/22 12:17	1
1,4-Difluorobenzene (Surr)	87		70 - 130	12/16/22 09:12	12/16/22 12:17	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			12/16/22 13:48	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/12/22 10:49	1

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Client Sample Results

Client: Ensolum
Project/Site: Young #1 Tank Battery

Job ID: 880-22250-1
SDG: 03C2012015

Client Sample ID: SW01

Lab Sample ID: 880-22250-3

Date Collected: 12/02/22 11:30

Matrix: Solid

Date Received: 12/02/22 13:48

Sample Depth: 0 - 4'

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/07/22 12:02	12/09/22 19:23	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/07/22 12:02	12/09/22 19:23	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/07/22 12:02	12/09/22 19:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	142	S1+	70 - 130			12/07/22 12:02	12/09/22 19:23	1
o-Terphenyl	140	S1+	70 - 130			12/07/22 12:02	12/09/22 19:23	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	71.8		4.98	mg/Kg			12/09/22 13:23	1

Client Sample ID: SW02

Lab Sample ID: 880-22250-4

Date Collected: 12/02/22 11:35

Matrix: Solid

Date Received: 12/02/22 13:48

Sample Depth: 0 - 4'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		12/16/22 09:12	12/16/22 12:37	1
Toluene	<0.00202	U	0.00202	mg/Kg		12/16/22 09:12	12/16/22 12:37	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		12/16/22 09:12	12/16/22 12:37	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		12/16/22 09:12	12/16/22 12:37	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		12/16/22 09:12	12/16/22 12:37	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		12/16/22 09:12	12/16/22 12:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130			12/16/22 09:12	12/16/22 12:37	1
1,4-Difluorobenzene (Surr)	98		70 - 130			12/16/22 09:12	12/16/22 12:37	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			12/16/22 13:48	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/12/22 10:49	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/07/22 12:02	12/09/22 19:44	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/07/22 12:02	12/09/22 19:44	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/07/22 12:02	12/09/22 19:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	137	S1+	70 - 130			12/07/22 12:02	12/09/22 19:44	1
o-Terphenyl	138	S1+	70 - 130			12/07/22 12:02	12/09/22 19:44	1

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Client Sample Results

Client: Ensolum
Project/Site: Young #1 Tank Battery

Job ID: 880-22250-1
SDG: 03C2012015

Client Sample ID: SW02

Lab Sample ID: 880-22250-4

Date Collected: 12/02/22 11:35

Matrix: Solid

Date Received: 12/02/22 13:48

Sample Depth: 0 - 4'

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	28.4		5.00	mg/Kg			12/09/22 13:30	1

Client Sample ID: SW10

Lab Sample ID: 880-22250-5

Date Collected: 12/02/22 11:40

Matrix: Solid

Date Received: 12/02/22 13:48

Sample Depth: 0 - 4'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		12/16/22 09:12	12/16/22 12:58	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/16/22 09:12	12/16/22 12:58	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/16/22 09:12	12/16/22 12:58	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		12/16/22 09:12	12/16/22 12:58	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/16/22 09:12	12/16/22 12:58	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/16/22 09:12	12/16/22 12:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			12/16/22 09:12	12/16/22 12:58	1
1,4-Difluorobenzene (Surr)	85		70 - 130			12/16/22 09:12	12/16/22 12:58	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			12/16/22 13:48	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/12/22 10:49	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/07/22 12:02	12/09/22 20:06	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/07/22 12:02	12/09/22 20:06	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/07/22 12:02	12/09/22 20:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	139	S1+	70 - 130			12/07/22 12:02	12/09/22 20:06	1
o-Terphenyl	140	S1+	70 - 130			12/07/22 12:02	12/09/22 20:06	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15.9		5.00	mg/Kg			12/09/22 15:20	1

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Surrogate Summary

Client: Ensolum
Project/Site: Young #1 Tank Battery

Job ID: 880-22250-1
SDG: 03C2012015

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-22250-1	SW08	86	88
880-22250-2	SW09	109	97
880-22250-3	SW01	102	87
880-22250-4	SW02	106	98
880-22250-5	SW10	105	85
LCS 880-41760/1-A	Lab Control Sample	107	109
LCSD 880-41760/2-A	Lab Control Sample Dup	133 S1+	126
MB 880-41760/5-A	Method Blank	89	99
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-22250-1	SW08	139 S1+	140 S1+
880-22250-2	SW09	130	130
880-22250-3	SW01	142 S1+	140 S1+
880-22250-4	SW02	137 S1+	138 S1+
880-22250-5	SW10	139 S1+	140 S1+
LCS 880-41278/2-A	Lab Control Sample	119	137 S1+
LCSD 880-41278/3-A	Lab Control Sample Dup	128	133 S1+
MB 880-41278/1-A	Method Blank	106	144 S1+
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Ensolum
Project/Site: Young #1 Tank Battery

Job ID: 880-22250-1
SDG: 03C2012015

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-41760/5-A

Matrix: Solid

Analysis Batch: 41992

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 41760

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/13/22 14:20	12/16/22 10:54	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/13/22 14:20	12/16/22 10:54	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/13/22 14:20	12/16/22 10:54	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		12/13/22 14:20	12/16/22 10:54	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/13/22 14:20	12/16/22 10:54	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		12/13/22 14:20	12/16/22 10:54	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130	12/13/22 14:20	12/16/22 10:54	1
1,4-Difluorobenzene (Surr)	99		70 - 130	12/13/22 14:20	12/16/22 10:54	1

Lab Sample ID: LCS 880-41760/1-A

Matrix: Solid

Analysis Batch: 41992

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 41760

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1028		mg/Kg		103	70 - 130
Toluene	0.100	0.09358		mg/Kg		94	70 - 130
Ethylbenzene	0.100	0.09654		mg/Kg		97	70 - 130
m-Xylene & p-Xylene	0.200	0.2017		mg/Kg		101	70 - 130
o-Xylene	0.100	0.09938		mg/Kg		99	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: LCSD 880-41760/2-A

Matrix: Solid

Analysis Batch: 41992

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 41760

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1096		mg/Kg		110	70 - 130	6	35
Toluene	0.100	0.1076		mg/Kg		108	70 - 130	14	35
Ethylbenzene	0.100	0.1121		mg/Kg		112	70 - 130	15	35
m-Xylene & p-Xylene	0.200	0.2434		mg/Kg		122	70 - 130	19	35
o-Xylene	0.100	0.1213		mg/Kg		121	70 - 130	20	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130
1,4-Difluorobenzene (Surr)	126		70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: Young #1 Tank Battery

Job ID: 880-22250-1
SDG: 03C2012015

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-41278/1-A

Matrix: Solid

Analysis Batch: 41411

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 41278

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/07/22 12:02	12/09/22 09:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/07/22 12:02	12/09/22 09:13	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/07/22 12:02	12/09/22 09:13	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130			12/07/22 12:02	12/09/22 09:13	1
o-Terphenyl	144	S1+	70 - 130			12/07/22 12:02	12/09/22 09:13	1

Lab Sample ID: LCS 880-41278/2-A

Matrix: Solid

Analysis Batch: 41411

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 41278

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	987.9		mg/Kg		99	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1009		mg/Kg		101	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	119		70 - 130				
o-Terphenyl	137	S1+	70 - 130				

Lab Sample ID: LCSD 880-41278/3-A

Matrix: Solid

Analysis Batch: 41411

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 41278

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	872.7		mg/Kg		87	70 - 130	12	20
Diesel Range Organics (Over C10-C28)	1000	895.6		mg/Kg		90	70 - 130	12	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	128		70 - 130						
o-Terphenyl	133	S1+	70 - 130						

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-40994/1-A

Matrix: Solid

Analysis Batch: 41276

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			12/09/22 11:10	1

Eurofins Midland

QC Sample Results

Client: Ensolum
Project/Site: Young #1 Tank Battery

Job ID: 880-22250-1
SDG: 03C2012015

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-40994/2-A

Matrix: Solid

Analysis Batch: 41276

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	262.5		mg/Kg		105	90 - 110		

Lab Sample ID: LCSD 880-40994/3-A

Matrix: Solid

Analysis Batch: 41276

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	263.2		mg/Kg		105	90 - 110	0	20

Lab Sample ID: 880-22250-2 MS

Matrix: Solid

Analysis Batch: 41276

Client Sample ID: SW09

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	11.3		251	285.9		mg/Kg		109	90 - 110		

Lab Sample ID: 880-22250-2 MSD

Matrix: Solid

Analysis Batch: 41276

Client Sample ID: SW09

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	11.3		251	285.9		mg/Kg		109	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: Young #1 Tank Battery

Job ID: 880-22250-1
SDG: 03C2012015

GC VOA

Prep Batch: 41760

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22250-1	SW08	Total/NA	Solid	5035	
880-22250-2	SW09	Total/NA	Solid	5035	
880-22250-3	SW01	Total/NA	Solid	5035	
880-22250-4	SW02	Total/NA	Solid	5035	
880-22250-5	SW10	Total/NA	Solid	5035	
MB 880-41760/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-41760/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-41760/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 41992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22250-1	SW08	Total/NA	Solid	8021B	41760
880-22250-2	SW09	Total/NA	Solid	8021B	41760
880-22250-3	SW01	Total/NA	Solid	8021B	41760
880-22250-4	SW02	Total/NA	Solid	8021B	41760
880-22250-5	SW10	Total/NA	Solid	8021B	41760
MB 880-41760/5-A	Method Blank	Total/NA	Solid	8021B	41760
LCS 880-41760/1-A	Lab Control Sample	Total/NA	Solid	8021B	41760
LCSD 880-41760/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	41760

Analysis Batch: 42038

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22250-1	SW08	Total/NA	Solid	Total BTEX	
880-22250-2	SW09	Total/NA	Solid	Total BTEX	
880-22250-3	SW01	Total/NA	Solid	Total BTEX	
880-22250-4	SW02	Total/NA	Solid	Total BTEX	
880-22250-5	SW10	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 41278

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22250-1	SW08	Total/NA	Solid	8015NM Prep	
880-22250-2	SW09	Total/NA	Solid	8015NM Prep	
880-22250-3	SW01	Total/NA	Solid	8015NM Prep	
880-22250-4	SW02	Total/NA	Solid	8015NM Prep	
880-22250-5	SW10	Total/NA	Solid	8015NM Prep	
MB 880-41278/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-41278/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-41278/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 41411

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22250-1	SW08	Total/NA	Solid	8015B NM	41278
880-22250-2	SW09	Total/NA	Solid	8015B NM	41278
880-22250-3	SW01	Total/NA	Solid	8015B NM	41278
880-22250-4	SW02	Total/NA	Solid	8015B NM	41278
880-22250-5	SW10	Total/NA	Solid	8015B NM	41278
MB 880-41278/1-A	Method Blank	Total/NA	Solid	8015B NM	41278
LCS 880-41278/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	41278
LCSD 880-41278/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	41278

Eurofins Midland

QC Association Summary

Client: Ensolum
Project/Site: Young #1 Tank Battery

Job ID: 880-22250-1
SDG: 03C2012015

GC Semi VOA

Analysis Batch: 41624

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22250-1	SW08	Total/NA	Solid	8015 NM	
880-22250-2	SW09	Total/NA	Solid	8015 NM	
880-22250-3	SW01	Total/NA	Solid	8015 NM	
880-22250-4	SW02	Total/NA	Solid	8015 NM	
880-22250-5	SW10	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 40994

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22250-1	SW08	Soluble	Solid	DI Leach	
880-22250-2	SW09	Soluble	Solid	DI Leach	
880-22250-3	SW01	Soluble	Solid	DI Leach	
880-22250-4	SW02	Soluble	Solid	DI Leach	
880-22250-5	SW10	Soluble	Solid	DI Leach	
MB 880-40994/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-40994/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-40994/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-22250-2 MS	SW09	Soluble	Solid	DI Leach	
880-22250-2 MSD	SW09	Soluble	Solid	DI Leach	

Analysis Batch: 41276

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22250-1	SW08	Soluble	Solid	300.0	40994
880-22250-2	SW09	Soluble	Solid	300.0	40994
880-22250-3	SW01	Soluble	Solid	300.0	40994
880-22250-4	SW02	Soluble	Solid	300.0	40994
880-22250-5	SW10	Soluble	Solid	300.0	40994
MB 880-40994/1-A	Method Blank	Soluble	Solid	300.0	40994
LCS 880-40994/2-A	Lab Control Sample	Soluble	Solid	300.0	40994
LCSD 880-40994/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	40994
880-22250-2 MS	SW09	Soluble	Solid	300.0	40994
880-22250-2 MSD	SW09	Soluble	Solid	300.0	40994

Lab Chronicle

Client: Ensolum
Project/Site: Young #1 Tank Battery

Job ID: 880-22250-1
SDG: 03C2012015

Client Sample ID: SW08

Lab Sample ID: 880-22250-1

Date Collected: 12/02/22 11:20

Matrix: Solid

Date Received: 12/02/22 13:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			41760	MNR	EET MID	12/16/22 09:12
Total/NA	Analysis	8021B		1	41992	MNR	EET MID	12/16/22 11:36
Total/NA	Analysis	Total BTEX		1	42038	SM	EET MID	12/16/22 13:48
Total/NA	Analysis	8015 NM		1	41624	SM	EET MID	12/12/22 10:49
Total/NA	Prep	8015NM Prep			41278	DM	EET MID	12/07/22 12:02
Total/NA	Analysis	8015B NM		1	41411	SM	EET MID	12/09/22 18:40
Soluble	Leach	DI Leach			40994	SMC	EET MID	12/05/22 09:48
Soluble	Analysis	300.0		1	41276	CH	EET MID	12/09/22 12:57

Client Sample ID: SW09

Lab Sample ID: 880-22250-2

Date Collected: 12/02/22 11:25

Matrix: Solid

Date Received: 12/02/22 13:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			41760	MNR	EET MID	12/16/22 09:12
Total/NA	Analysis	8021B		1	41992	MNR	EET MID	12/16/22 11:56
Total/NA	Analysis	Total BTEX		1	42038	SM	EET MID	12/16/22 13:48
Total/NA	Analysis	8015 NM		1	41624	SM	EET MID	12/12/22 10:49
Total/NA	Prep	8015NM Prep			41278	DM	EET MID	12/07/22 12:02
Total/NA	Analysis	8015B NM		1	41411	SM	EET MID	12/09/22 19:01
Soluble	Leach	DI Leach			40994	SMC	EET MID	12/05/22 09:48
Soluble	Analysis	300.0		1	41276	CH	EET MID	12/09/22 13:03

Client Sample ID: SW01

Lab Sample ID: 880-22250-3

Date Collected: 12/02/22 11:30

Matrix: Solid

Date Received: 12/02/22 13:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			41760	MNR	EET MID	12/16/22 09:12
Total/NA	Analysis	8021B		1	41992	MNR	EET MID	12/16/22 12:17
Total/NA	Analysis	Total BTEX		1	42038	SM	EET MID	12/16/22 13:48
Total/NA	Analysis	8015 NM		1	41624	SM	EET MID	12/12/22 10:49
Total/NA	Prep	8015NM Prep			41278	DM	EET MID	12/07/22 12:02
Total/NA	Analysis	8015B NM		1	41411	SM	EET MID	12/09/22 19:23
Soluble	Leach	DI Leach			40994	SMC	EET MID	12/05/22 09:48
Soluble	Analysis	300.0		1	41276	CH	EET MID	12/09/22 13:23

Client Sample ID: SW02

Lab Sample ID: 880-22250-4

Date Collected: 12/02/22 11:35

Matrix: Solid

Date Received: 12/02/22 13:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			41760	MNR	EET MID	12/16/22 09:12
Total/NA	Analysis	8021B		1	41992	MNR	EET MID	12/16/22 12:37
Total/NA	Analysis	Total BTEX		1	42038	SM	EET MID	12/16/22 13:48

Eurofins Midland

Lab Chronicle

Client: Ensolum
Project/Site: Young #1 Tank Battery

Job ID: 880-22250-1
SDG: 03C2012015

Client Sample ID: SW02

Lab Sample ID: 880-22250-4

Date Collected: 12/02/22 11:35

Matrix: Solid

Date Received: 12/02/22 13:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015 NM		1	41624	SM	EET MID	12/12/22 10:49
Total/NA	Prep	8015NM Prep			41278	DM	EET MID	12/07/22 12:02
Total/NA	Analysis	8015B NM		1	41411	SM	EET MID	12/09/22 19:44
Soluble	Leach	DI Leach			40994	SMC	EET MID	12/05/22 09:48
Soluble	Analysis	300.0		1	41276	CH	EET MID	12/09/22 13:30

Client Sample ID: SW10

Lab Sample ID: 880-22250-5

Date Collected: 12/02/22 11:40

Matrix: Solid

Date Received: 12/02/22 13:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			41760	MNR	EET MID	12/16/22 09:12
Total/NA	Analysis	8021B		1	41992	MNR	EET MID	12/16/22 12:58
Total/NA	Analysis	Total BTEX		1	42038	SM	EET MID	12/16/22 13:48
Total/NA	Analysis	8015 NM		1	41624	SM	EET MID	12/12/22 10:49
Total/NA	Prep	8015NM Prep			41278	DM	EET MID	12/07/22 12:02
Total/NA	Analysis	8015B NM		1	41411	SM	EET MID	12/09/22 20:06
Soluble	Leach	DI Leach			40994	SMC	EET MID	12/05/22 09:48
Soluble	Analysis	300.0		1	41276	CH	EET MID	12/09/22 15:20

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Young #1 Tank Battery

Job ID: 880-22250-1
SDG: 03C2012015

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-24	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ensolum
Project/Site: Young #1 Tank Battery

Job ID: 880-22250-1
SDG: 03C2012015

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	MCAWW	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440






















Sample Summary

Client: Ensolum
Project/Site: Young #1 Tank Battery

Job ID: 880-22250-1
SDG: 03C2012015

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-22250-1	SW08	Solid	12/02/22 11:20	12/02/22 13:48	0 - 4'
880-22250-2	SW09	Solid	12/02/22 11:25	12/02/22 13:48	0 - 4'
880-22250-3	SW01	Solid	12/02/22 11:30	12/02/22 13:48	0 - 4'
880-22250-4	SW02	Solid	12/02/22 11:35	12/02/22 13:48	0 - 4'
880-22250-5	SW10	Solid	12/02/22 11:40	12/02/22 13:48	0 - 4'



Houston TX (281) 240-4200 Dallas TX (214) 902-0300
Midland TX (432) 704-5440 San Antonio TX (210) 509-3334
El Paso TX (915) 585-3443 Lubbock TX (806) 794-1296
Hobbs NM (575) 392-7550 Carlsbad NM (575) 986-3199

Chain of Custody

Work Order No

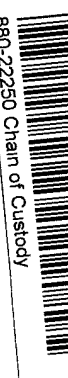
well

www.xenco.com Page 7 of 7

Project Manager	Hadlie Green	Bill to: (if different)	Bob Hall
Company Name	Ensolum, LLC	Company Name	BTA Oil
Address	3122 Nat'l Parks Hwy	Address	104 S Pecos St
City, State ZIP	Carlsbad, NM, 88220	City, State ZIP	Midland, TX 79701
Phone	432-557-8895	Email	hgreen@ensolum.com

Work Order Comments	
Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>	
State of Project:	
Reporting Lei	
Deliverables	

Project Name:		Young #1 Tank Battery		Turn Around	
Project Number		03C2012015		<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush	
Project Location		32 767224, -103 729807		Due Date	
Sampler's Name		Juliana Falcomata		TAT starts the day received by the lab if received by 4 30pm	
PO #:					
SAMPLE RECEIPT		Temp Blank	Yes	No	Wet Ice
Samples Received intact:		Yes	No		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Cooler Custody Seals:		Yes	No	N/A	Thermometer ID: T-NM-007
Sample Custody Seals		Yes	No	N/A	Correction Factor:
Total Containers:		Yes	No	N/A	Temperature Reading: 2.2
					Corrected Temperature:
Parameters					
PRES.		CODE			
ANALYSIS REQUEST					
CHLORIDES (EPA 300.0) 1015) 8021					




880-22250 Chain of Custody

CUSTODY	RECEIVED
HCL HC	MeOH Me
H ₂ SO ₄ H ₂	HNO ₃ HN
H ₃ PO ₄ HP	NaOH Na
NaHSO ₄ NABIS	
Na ₂ S ₂ O ₃ NaSO ₃	
Zn Acetate+NaOH Zn	
NaOH+Ascorbic Acid SAPC	

[illegible]

Total 200.7 / 6010	200.8 / 6020:	8RCRA	13PPM	Texas 11	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	SiO ₂	Na	Sr	Ti	Sn	U	V	Zn
Circle Method(s) and Metal(s) to be analyzed		TCLP / SPLP 6010	8RCRA	Sb	As	Ba	Be	Cd	Cr	Co	Cu	Pb	Mn	Mo	Ni	Se	Ag	Ti	U					Hg	1631 / 245	1 / 7470	7471					

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenoco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenoco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenoco. A minimum charge of \$35.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenoco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
1		12-2-22 13:48	2		
3			4		
5			6		

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-22250-1

SDG Number: 03C2012015

Login Number: 22250

List Number: 1

Creator: Kramer, Jessica

List Source: Eurofins Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



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

December 27, 2022

HADLIE GREEN

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: YOUNG #1

Enclosed are the results of analyses for samples received by the laboratory on 12/22/22 11:00.

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/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	12/22/2022	Sampling Date:	12/22/2022
Reported:	12/27/2022	Sampling Type:	Soil
Project Name:	YOUNG #1	Sampling Condition:	Cool & Intact
Project Number:	03C2012015	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.7672, -103.7298		

Sample ID: FS 21 A (H226045-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/22/2022	ND	1.99	99.7	2.00	4.31	
Toluene*	<0.050	0.050	12/22/2022	ND	2.15	107	2.00	3.94	
Ethylbenzene*	<0.050	0.050	12/22/2022	ND	2.15	107	2.00	3.59	
Total Xylenes*	<0.150	0.150	12/22/2022	ND	6.61	110	6.00	2.94	
Total BTX	<0.300	0.300	12/22/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	12/22/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/22/2022	ND	211	106	200	3.50	
DRO >C10-C28*	26.6	10.0	12/22/2022	ND	227	113	200	5.39	
EXT DRO >C28-C36	<10.0	10.0	12/22/2022	ND					

Surrogate: 1-Chlorooctane 79.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 79.8 % 46.3-178

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	12/22/2022	Sampling Date:	12/22/2022
Reported:	12/27/2022	Sampling Type:	Soil
Project Name:	YOUNG #1	Sampling Condition:	Cool & Intact
Project Number:	03C2012015	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.7672, -103.7298		

Sample ID: FS 48 A (H226045-02)

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	12/27/2022	ND	2.09	104	2.00	6.14		
Toluene*	<0.050	0.050	12/27/2022	ND	2.21	111	2.00	5.44		
Ethylbenzene*	<0.050	0.050	12/27/2022	ND	2.20	110	2.00	5.46		
Total Xylenes*	<0.150	0.150	12/27/2022	ND	6.75	113	6.00	5.67		
Total BTEx	<0.300	0.300	12/27/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	12/22/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/22/2022	ND	211	106	200	3.50	
DRO >C10-C28*	31.0	10.0	12/22/2022	ND	227	113	200	5.39	
EXT DRO >C28-C36	<10.0	10.0	12/22/2022	ND					

Surrogate: 1-Chlorooctane 82.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 82.5 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/22/2022	Sampling Date:	12/22/2022
Reported:	12/27/2022	Sampling Type:	Soil
Project Name:	YOUNG #1	Sampling Condition:	Cool & Intact
Project Number:	03C2012015	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.7672, -103.7298		

Sample ID: FS 66 A (H226045-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/27/2022	ND	2.09	104	2.00	6.14		
Toluene*	<0.050	0.050	12/27/2022	ND	2.21	111	2.00	5.44		
Ethylbenzene*	<0.050	0.050	12/27/2022	ND	2.20	110	2.00	5.46		
Total Xylenes*	<0.150	0.150	12/27/2022	ND	6.75	113	6.00	5.67		
Total BTEx	<0.300	0.300	12/27/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	12/22/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/22/2022	ND	211	106	200	3.50	
DRO >C10-C28*	10.5	10.0	12/22/2022	ND	227	113	200	5.39	
EXT DRO >C28-C36	<10.0	10.0	12/22/2022	ND					

Surrogate: 1-Chlorooctane 80.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 79.9 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

Company Name: <u>Enselum</u>	P.O. #:
Project Manager: <u>Hodlie Green</u>	Company: <u>BTA Oil</u>
Address: <u>3122 Mariona Parks Hwy</u>	Attn: <u>Bob Hufl</u>
City: <u>Carlsbad</u>	Address: <u>1045 Pecos</u>
State: <u>NM</u> Zip: <u>88220</u>	City: <u>Midland TX</u>
Phone #: <u>432-557-8845</u> Fax #:	State: <u>TX</u> Zip: <u>79701</u>
Project #: <u>03C2612015</u> Project Owner:	Phone #: <u>432-312-2203</u>
Project Name: <u>Long #1 Tank Battery</u>	Fax #:
Project Location: <u>Lea Co</u>	
Sample Name: <u>CB</u>	

FOR LAB USE ONLY		MATRIX		PRESERV		SAMPLING									
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE	ICE / COOL	OTHER :	DATE	TIME	
H226045	FS21A					///							12-22	0950	CHL
	FS48A					///							1600	1010	BTX
	FS46A					///									TPH
											</				

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Relinquished By: <u>[Signature]</u>	Date: <u>12-22-22</u>	Received By: <u>[Signature]</u>	Date: <u>12-22-22</u>	Time: <u>1100</u>	Time: <u>1100</u>	Received By: <u>[Signature]</u>	Date: <u>12-22-22</u>	Time: <u>1100</u>
Delivered By: (Circle One)	Observed Temp. °C	Corrected Temp. °C	Sample Condition	CHECKED BY: (Initials)	Turnaround Time:	Standard	Bacteria (only)	Sample Condition
Sampler - UPS - Bus - Other:	<u>3.0</u>	<u>2.4</u>	<input checked="" type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	<u>Y</u>	Thermometer ID #113	<u>Rush</u>	<input checked="" type="checkbox"/> Bacteria (only) <input type="checkbox"/> Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	Observed Temp. °C
					Correction Factor -0.6°C			Corrected Temp. °C

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



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

February 14, 2023

HADLIE GREEN

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: YOUNG #1 TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 02/08/23 14:45.

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/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/08/2023
 Reported: 02/14/2023
 Project Name: YOUNG #1 TANK BATTERY
 Project Number: 03C2012015
 Project Location: BTA - LEA

Sampling Date: 02/06/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 31 A (H230568-01)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2023	ND	2.05	103	2.00	3.71	
Toluene*	<0.050	0.050	02/11/2023	ND	2.10	105	2.00	3.04	
Ethylbenzene*	<0.050	0.050	02/11/2023	ND	2.07	103	2.00	3.55	
Total Xylenes*	<0.150	0.150	02/11/2023	ND	6.41	107	6.00	3.89	
Total BTEx	<0.300	0.300	02/11/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	02/10/2023	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/10/2023	ND	183	91.6	200	6.32	
DRO >C10-C28*	26.5	10.0	02/10/2023	ND	175	87.6	200	8.08	
EXT DRO >C28-C36	<10.0	10.0	02/10/2023	ND					

Surrogate: 1-Chlorooctane 93.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/08/2023
 Reported: 02/14/2023
 Project Name: YOUNG #1 TANK BATTERY
 Project Number: 03C2012015
 Project Location: BTA - LEA

Sampling Date: 02/06/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 32 A (H230568-02)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2023	ND	2.05	103	2.00	3.71	
Toluene*	<0.050	0.050	02/11/2023	ND	2.10	105	2.00	3.04	
Ethylbenzene*	<0.050	0.050	02/11/2023	ND	2.07	103	2.00	3.55	
Total Xylenes*	<0.150	0.150	02/11/2023	ND	6.41	107	6.00	3.89	
Total BTEX	<0.300	0.300	02/11/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	02/10/2023	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/10/2023	ND	183	91.6	200	6.32	
DRO >C10-C28*	<10.0	10.0	02/10/2023	ND	175	87.6	200	8.08	
EXT DRO >C28-C36	<10.0	10.0	02/10/2023	ND					

Surrogate: 1-Chlorooctane 84.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/08/2023
 Reported: 02/14/2023
 Project Name: YOUNG #1 TANK BATTERY
 Project Number: 03C2012015
 Project Location: BTA - LEA

Sampling Date: 02/06/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 46 A (H230568-03)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2023	ND	2.05	103	2.00	3.71	
Toluene*	<0.050	0.050	02/11/2023	ND	2.10	105	2.00	3.04	
Ethylbenzene*	<0.050	0.050	02/11/2023	ND	2.07	103	2.00	3.55	
Total Xylenes*	<0.150	0.150	02/11/2023	ND	6.41	107	6.00	3.89	
Total BTEx	<0.300	0.300	02/11/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	02/10/2023	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/10/2023	ND	183	91.6	200	6.32	
DRO >C10-C28*	<10.0	10.0	02/10/2023	ND	175	87.6	200	8.08	
EXT DRO >C28-C36	<10.0	10.0	02/10/2023	ND					

Surrogate: 1-Chlorooctane 90.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/08/2023
 Reported: 02/14/2023
 Project Name: YOUNG #1 TANK BATTERY
 Project Number: 03C2012015
 Project Location: BTA - LEA

Sampling Date: 02/06/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 49 A (H230568-04)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2023	ND	2.05	103	2.00	3.71	
Toluene*	<0.050	0.050	02/11/2023	ND	2.10	105	2.00	3.04	
Ethylbenzene*	<0.050	0.050	02/11/2023	ND	2.07	103	2.00	3.55	
Total Xylenes*	<0.150	0.150	02/11/2023	ND	6.41	107	6.00	3.89	
Total BTEx	<0.300	0.300	02/11/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	02/10/2023	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/10/2023	ND	183	91.6	200	6.32	
DRO >C10-C28*	<10.0	10.0	02/10/2023	ND	175	87.6	200	8.08	
EXT DRO >C28-C36	<10.0	10.0	02/10/2023	ND					

Surrogate: 1-Chlorooctane 71.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/08/2023
 Reported: 02/14/2023
 Project Name: YOUNG #1 TANK BATTERY
 Project Number: 03C2012015
 Project Location: BTA - LEA

Sampling Date: 02/06/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 50 A (H230568-05)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2023	ND	2.05	103	2.00	3.71	
Toluene*	<0.050	0.050	02/11/2023	ND	2.10	105	2.00	3.04	
Ethylbenzene*	<0.050	0.050	02/11/2023	ND	2.07	103	2.00	3.55	
Total Xylenes*	<0.150	0.150	02/11/2023	ND	6.41	107	6.00	3.89	
Total BTEx	<0.300	0.300	02/11/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	02/10/2023	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/10/2023	ND	183	91.6	200	6.32	
DRO >C10-C28*	<10.0	10.0	02/10/2023	ND	175	87.6	200	8.08	
EXT DRO >C28-C36	<10.0	10.0	02/10/2023	ND					

Surrogate: 1-Chlorooctane 86.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/08/2023
 Reported: 02/14/2023
 Project Name: YOUNG #1 TANK BATTERY
 Project Number: 03C2012015
 Project Location: BTA - LEA

Sampling Date: 02/06/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 56 A (H230568-06)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2023	ND	2.05	103	2.00	3.71	
Toluene*	<0.050	0.050	02/11/2023	ND	2.10	105	2.00	3.04	
Ethylbenzene*	<0.050	0.050	02/11/2023	ND	2.07	103	2.00	3.55	
Total Xylenes*	<0.150	0.150	02/11/2023	ND	6.41	107	6.00	3.89	
Total BTEX	<0.300	0.300	02/11/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	02/10/2023	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/10/2023	ND	183	91.6	200	6.32	
DRO >C10-C28*	<10.0	10.0	02/10/2023	ND	175	87.6	200	8.08	
EXT DRO >C28-C36	<10.0	10.0	02/10/2023	ND					

Surrogate: 1-Chlorooctane 119 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 49.1-148

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Analytical Results For:

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

Received: 02/08/2023
 Reported: 02/14/2023
 Project Name: YOUNG #1 TANK BATTERY
 Project Number: 03C2012015
 Project Location: BTA - LEA

Sampling Date: 02/06/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 58 A (H230568-07)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2023	ND	2.05	103	2.00	3.71	
Toluene*	<0.050	0.050	02/11/2023	ND	2.10	105	2.00	3.04	
Ethylbenzene*	<0.050	0.050	02/11/2023	ND	2.07	103	2.00	3.55	
Total Xylenes*	<0.150	0.150	02/11/2023	ND	6.41	107	6.00	3.89	
Total BTEx	<0.300	0.300	02/11/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	02/10/2023	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/10/2023	ND	183	91.6	200	6.32	
DRO >C10-C28*	<10.0	10.0	02/10/2023	ND	175	87.6	200	8.08	
EXT DRO >C28-C36	<10.0	10.0	02/10/2023	ND					

Surrogate: 1-Chlorooctane 91.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/08/2023
 Reported: 02/14/2023
 Project Name: YOUNG #1 TANK BATTERY
 Project Number: 03C2012015
 Project Location: BTA - LEA

Sampling Date: 02/06/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 60 A (H230568-08)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2023	ND	2.05	103	2.00	3.71	
Toluene*	<0.050	0.050	02/11/2023	ND	2.10	105	2.00	3.04	
Ethylbenzene*	<0.050	0.050	02/11/2023	ND	2.07	103	2.00	3.55	
Total Xylenes*	<0.150	0.150	02/11/2023	ND	6.41	107	6.00	3.89	
Total BTEx	<0.300	0.300	02/11/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	02/10/2023	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/10/2023	ND	183	91.6	200	6.32	
DRO >C10-C28*	<10.0	10.0	02/10/2023	ND	175	87.6	200	8.08	
EXT DRO >C28-C36	<10.0	10.0	02/10/2023	ND					

Surrogate: 1-Chlorooctane 95.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/08/2023
 Reported: 02/14/2023
 Project Name: YOUNG #1 TANK BATTERY
 Project Number: 03C2012015
 Project Location: BTA - LEA

Sampling Date: 02/06/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 68 A (H230568-09)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2023	ND	2.05	103	2.00	3.71	
Toluene*	<0.050	0.050	02/11/2023	ND	2.10	105	2.00	3.04	
Ethylbenzene*	<0.050	0.050	02/11/2023	ND	2.07	103	2.00	3.55	
Total Xylenes*	<0.150	0.150	02/11/2023	ND	6.41	107	6.00	3.89	
Total BTEX	<0.300	0.300	02/11/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	02/10/2023	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/10/2023	ND	183	91.6	200	6.32	
DRO >C10-C28*	<10.0	10.0	02/10/2023	ND	175	87.6	200	8.08	
EXT DRO >C28-C36	<10.0	10.0	02/10/2023	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Analytical Results For:

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

Received: 02/08/2023
 Reported: 02/14/2023
 Project Name: YOUNG #1 TANK BATTERY
 Project Number: 03C2012015
 Project Location: BTA - LEA

Sampling Date: 02/06/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 69 A (H230568-10)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2023	ND	2.05	103	2.00	3.71	
Toluene*	<0.050	0.050	02/11/2023	ND	2.10	105	2.00	3.04	
Ethylbenzene*	<0.050	0.050	02/11/2023	ND	2.07	103	2.00	3.55	
Total Xylenes*	<0.150	0.150	02/11/2023	ND	6.41	107	6.00	3.89	
Total BTEX	<0.300	0.300	02/11/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	02/10/2023	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/10/2023	ND	183	91.6	200	6.32	
DRO >C10-C28*	<10.0	10.0	02/10/2023	ND	175	87.6	200	8.08	
EXT DRO >C28-C36	<10.0	10.0	02/10/2023	ND					

Surrogate: 1-Chlorooctane 87.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/08/2023
 Reported: 02/14/2023
 Project Name: YOUNG #1 TANK BATTERY
 Project Number: 03C2012015
 Project Location: BTA - LEA

Sampling Date: 02/06/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 70 A (H230568-11)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2023	ND	2.05	103	2.00	3.71	
Toluene*	<0.050	0.050	02/11/2023	ND	2.10	105	2.00	3.04	
Ethylbenzene*	<0.050	0.050	02/11/2023	ND	2.07	103	2.00	3.55	
Total Xylenes*	<0.150	0.150	02/11/2023	ND	6.41	107	6.00	3.89	
Total BTEx	<0.300	0.300	02/11/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	02/10/2023	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/10/2023	ND	183	91.6	200	6.32	
DRO >C10-C28*	<10.0	10.0	02/10/2023	ND	175	87.6	200	8.08	
EXT DRO >C28-C36	<10.0	10.0	02/10/2023	ND					

Surrogate: 1-Chlorooctane 80.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/08/2023
 Reported: 02/14/2023
 Project Name: YOUNG #1 TANK BATTERY
 Project Number: 03C2012015
 Project Location: BTA - LEA

Sampling Date: 02/06/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 71 A (H230568-12)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2023	ND	2.05	103	2.00	3.71	
Toluene*	<0.050	0.050	02/11/2023	ND	2.10	105	2.00	3.04	
Ethylbenzene*	<0.050	0.050	02/11/2023	ND	2.07	103	2.00	3.55	
Total Xylenes*	<0.150	0.150	02/11/2023	ND	6.41	107	6.00	3.89	
Total BTEx	<0.300	0.300	02/11/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	02/10/2023	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/10/2023	ND	183	91.6	200	6.32	
DRO >C10-C28*	<10.0	10.0	02/10/2023	ND	175	87.6	200	8.08	
EXT DRO >C28-C36	<10.0	10.0	02/10/2023	ND					

Surrogate: 1-Chlorooctane 98.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/08/2023
 Reported: 02/14/2023
 Project Name: YOUNG #1 TANK BATTERY
 Project Number: 03C2012015
 Project Location: BTA - LEA

Sampling Date: 02/06/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 76 A (H230568-13)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2023	ND	2.05	103	2.00	3.71	
Toluene*	<0.050	0.050	02/11/2023	ND	2.10	105	2.00	3.04	
Ethylbenzene*	<0.050	0.050	02/11/2023	ND	2.07	103	2.00	3.55	
Total Xylenes*	<0.150	0.150	02/11/2023	ND	6.41	107	6.00	3.89	
Total BTEx	<0.300	0.300	02/11/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	02/10/2023	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/10/2023	ND	183	91.6	200	6.32	
DRO >C10-C28*	<10.0	10.0	02/10/2023	ND	175	87.6	200	8.08	
EXT DRO >C28-C36	<10.0	10.0	02/10/2023	ND					

Surrogate: 1-Chlorooctane 79.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/08/2023
 Reported: 02/14/2023
 Project Name: YOUNG #1 TANK BATTERY
 Project Number: 03C2012015
 Project Location: BTA - LEA

Sampling Date: 02/06/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 78 A (H230568-14)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2023	ND	2.05	103	2.00	3.71	
Toluene*	<0.050	0.050	02/11/2023	ND	2.10	105	2.00	3.04	
Ethylbenzene*	<0.050	0.050	02/11/2023	ND	2.07	103	2.00	3.55	
Total Xylenes*	<0.150	0.150	02/11/2023	ND	6.41	107	6.00	3.89	
Total BTEX	<0.300	0.300	02/11/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	02/10/2023	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/10/2023	ND	183	91.6	200	6.32	
DRO >C10-C28*	<10.0	10.0	02/10/2023	ND	175	87.6	200	8.08	
EXT DRO >C28-C36	<10.0	10.0	02/10/2023	ND					

Surrogate: 1-Chlorooctane 82.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/08/2023
 Reported: 02/14/2023
 Project Name: YOUNG #1 TANK BATTERY
 Project Number: 03C2012015
 Project Location: BTA - LEA

Sampling Date: 02/06/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 79 A (H230568-15)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2023	ND	2.05	103	2.00	3.71	
Toluene*	<0.050	0.050	02/11/2023	ND	2.10	105	2.00	3.04	
Ethylbenzene*	<0.050	0.050	02/11/2023	ND	2.07	103	2.00	3.55	
Total Xylenes*	<0.150	0.150	02/11/2023	ND	6.41	107	6.00	3.89	
Total BTEX	<0.300	0.300	02/11/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	02/10/2023	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/10/2023	ND	183	91.6	200	6.32	
DRO >C10-C28*	<10.0	10.0	02/10/2023	ND	175	87.6	200	8.08	
EXT DRO >C28-C36	<10.0	10.0	02/10/2023	ND					

Surrogate: 1-Chlorooctane 92.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/08/2023
 Reported: 02/14/2023
 Project Name: YOUNG #1 TANK BATTERY
 Project Number: 03C2012015
 Project Location: BTA - LEA

Sampling Date: 02/06/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 80 A (H230568-16)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2023	ND	2.05	103	2.00	3.71	
Toluene*	<0.050	0.050	02/11/2023	ND	2.10	105	2.00	3.04	
Ethylbenzene*	<0.050	0.050	02/11/2023	ND	2.07	103	2.00	3.55	
Total Xylenes*	<0.150	0.150	02/11/2023	ND	6.41	107	6.00	3.89	
Total BTEX	<0.300	0.300	02/11/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	02/10/2023	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/10/2023	ND	183	91.6	200	6.32	
DRO >C10-C28*	<10.0	10.0	02/10/2023	ND	175	87.6	200	8.08	
EXT DRO >C28-C36	<10.0	10.0	02/10/2023	ND					

Surrogate: 1-Chlorooctane 92.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/08/2023
 Reported: 02/14/2023
 Project Name: YOUNG #1 TANK BATTERY
 Project Number: 03C2012015
 Project Location: BTA - LEA

Sampling Date: 02/06/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 81 A (H230568-17)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2023	ND	2.05	103	2.00	3.71	
Toluene*	<0.050	0.050	02/11/2023	ND	2.10	105	2.00	3.04	
Ethylbenzene*	<0.050	0.050	02/11/2023	ND	2.07	103	2.00	3.55	
Total Xylenes*	<0.150	0.150	02/11/2023	ND	6.41	107	6.00	3.89	
Total BTEX	<0.300	0.300	02/11/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	02/10/2023	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	02/10/2023	ND	183	91.6	200	6.32	
DRO >C10-C28*	<10.0	10.0	02/10/2023	ND	175	87.6	200	8.08	
EXT DRO >C28-C36	<10.0	10.0	02/10/2023	ND					

Surrogate: 1-Chlorooctane 97.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/08/2023
 Reported: 02/14/2023
 Project Name: YOUNG #1 TANK BATTERY
 Project Number: 03C2012015
 Project Location: BTA - LEA

Sampling Date: 02/06/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 83 A (H230568-18)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2023	ND	2.05	103	2.00	3.71	
Toluene*	<0.050	0.050	02/11/2023	ND	2.10	105	2.00	3.04	
Ethylbenzene*	<0.050	0.050	02/11/2023	ND	2.07	103	2.00	3.55	
Total Xylenes*	<0.150	0.150	02/11/2023	ND	6.41	107	6.00	3.89	
Total BTEx	<0.300	0.300	02/11/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	02/10/2023	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	02/10/2023	ND	183	91.6	200	6.32	
DRO >C10-C28*	<10.0	10.0	02/10/2023	ND	175	87.6	200	8.08	
EXT DRO >C28-C36	<10.0	10.0	02/10/2023	ND					

Surrogate: 1-Chlorooctane 86.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Enselum

Project Manager: Hadi Green

Address: 601 N. Marland St. Suite 400

City: Midland State: TX Zip: 79701

Phone #: 432-557-8895 Fax #:

Project #: 03C-2012015 Project Owner:

Project Name: Young #1 Tank Battery

Project Location: Lee

Sample Name: Peter Van Patten

FOR LAB USE ONLY

BILL TO

P.O. #:

Company: BTA Oil

Attn: Bob Hall

Address: 104 S. Ross St.

City: Midland

State: TX Zip: 79701

Phone #: 432-32-2203

Fax #:

ANALYSIS REQUEST

Lab I.D.

Sample I.D.

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.		MATRIX						PRESERV.		SAMPLING	
		# CONTAINERS		GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	
10	FS69A	1	✓										
11	FS70A	1	✓										
12	FS71A	1	✓										
13	FS76A	1	✓										
14	FS78A	1	✓										
15	FS79A	1	✓										
16	FS80A	1	✓										
17	FS81A	1	✓										
18	FS83A	1	✓										

Chlorides
TPH
BTEX

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Relinquished By:

Relinquished By:

Relinquished By:

Relinquished By:

Relinquished By:

Relinquished By:

Relinquished By:

Relinquished By:

Relinquished By:

Date: 2/8/23 Received By: Spodriquiry

Date: 1/4/25 Received By: Spodriquiry

Date: 1/4/25 Received By: Spodriquiry

Date: 1/4/25 Received By: Spodriquiry

Date: 1/4/25 Received By: Spodriquiry

Date: 1/4/25 Received By: Spodriquiry

Date: 1/4/25 Received By: Spodriquiry

Date: 1/4/25 Received By: Spodriquiry

Turnaround Time: 2.54 Sample Condition: Intact

Thermometer ID #113 Correction Factor -0.5°C

Standard: Rush Bacteria (only) Sample Condition: Intact

Observed Temp. °C: 1.94 Corrected Temp. °C: 1.94

Observed Temp. °C: 1.94 Corrected Temp. °C: 1.94

Observed Temp. °C: 1.94 Corrected Temp. °C: 1.94

Observed Temp. °C: 1.94 Corrected Temp. °C: 1.94

Observed Temp. °C: 1.94 Corrected Temp. °C: 1.94

Remarks: Myreen@enselum.com, Kyeun@s@enselum.com

Remarks: Myreen@enselum.com, Kyeun@s@enselum.com

Remarks: Myreen@enselum.com, Kyeun@s@enselum.com

Remarks: Myreen@enselum.com, Kyeun@s@enselum.com

Remarks: Myreen@enselum.com, Kyeun@s@enselum.com

Remarks: Myreen@enselum.com, Kyeun@s@enselum.com

Remarks: Myreen@enselum.com, Kyeun@s@enselum.com

Remarks: Myreen@enselum.com, Kyeun@s@enselum.com

2



APPENDIX D

NMOCD Notifications

Anita Thapalia

From: OCDOnline@state.nm.us
Sent: Monday, November 21, 2022 6:29 PM
To: Bob Hall
Subject: The Oil Conservation Division (OCD) has approved the application, Application ID: 160584

***** EXTERNAL EMAIL - Please use caution and **DO NOT** open attachments or click links from unknown or unexpected emails. *****

To whom it may concern (c/o Bob Hall for BTA OIL PRODUCERS, LLC),

The OCD has approved the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2231476257, with the following conditions:

- **None**

The signed C-141 can be found in the OCD Online: Imaging under the incident ID (n#).

If you have any questions regarding this application, please contact me.

Thank you,
Jocelyn Harimon
Environmental Specialist
575-748-1283
Jocelyn.Harimon@emnrd.nm.gov

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

From: [Nobui, Jennifer, EMNRD](#)
To: [Hadlie Green](#)
Cc: [Bratcher, Michael, EMNRD](#); [Harimon, Jocelyn, EMNRD](#); [Hamlet, Robert, EMNRD](#)
Subject: FW: [EXTERNAL] BTA - Extension Request - Young #1 Tank Battery (Incident Number nAPP2231476257)
Date: Thursday, February 2, 2023 1:11:13 PM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)
[image005.jpg](#)

[**EXTERNAL EMAIL**]

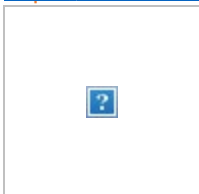
Hello Hadlie

OCD approves your 30-day extension request to March 10, 2023 for submitting a remediation plan and/or closure report. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thanks,
Jennifer Nobui

From: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Sent: Thursday, February 2, 2023 10:53 AM
To: Nobui, Jennifer, EMNRD <Jennifer.Nobui@emnrd.nm.gov>
Subject: FW: [EXTERNAL] BTA - Extension Request - Young #1 Tank Battery (Incident Number nAPP2231476257)

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](http://www.emnrd.nm.gov)



From: Hadlie Green <hgreen@ensolum.com>
Sent: Thursday, February 2, 2023 10:41 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Tacoma Morrissey <tmorrissey@ensolum.com>; Bob Hall <bhall@btaoil.com>
Subject: [EXTERNAL] BTA - Extension Request - Young #1 Tank Battery (Incident Number

nAPP2231476257)

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

All,

BTA is requesting an extension for the current deadline of February 8, 2023, for submitting a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC for Young #1 Tank Battery (Incident Number nAPP2231476257). The release was discovered on November 10, 2022. Initial site assessment activities and excavation of impacted soil has been completed. Based on the most recent field screening results, BTA believes all impacted soil has been removed; however, we are waiting for laboratory analytical results to confirm. In order to complete additional remediation activities and submit a remediation work plan or closure report, BTA requests a 30-day extension of this deadline until March 10, 2023.

Thank you,



Hadlie Green

Staff Geologist

432-557-8895

hgreen@ensolum.com

Ensolum, LLC





APPENDIX E

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
District IV
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	nAPP2231476257
District RP	
Facility ID	fAPP2201832674
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) nAPP2231476257
Contact mailing address: 104 S. Pecos St., Midland, TX 79701	

Location of Release Source

Latitude: 32.76721 Longitude: -103.72983

(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Young #1 Tank Battery	Site Type: Tank Battery
Date Release Discovered: 11/10/2022	API# (if applicable) Nearest well:

Unit Letter	Section	Township	Range	County
A	11	18S	32E	Lea

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)

<input type="checkbox"/> Crude Oil	Volume Released (bbls) 218 BBL	Volume Recovered (bbls) 100 BBL
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

Tank Failure. An oil tank failed on the bottom, releasing the entire contents inside the earthen containment walls surrounding the battery. The oil was pushed out of the containment and onto the adjacent pasture. Vacuum truck used to recover 100 BO.

Spill Volume Calculation is attached.

Incident ID	nAPP2230983706
District RP	
Facility ID	fAPP2201832674
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? The release volume exceeded 25 BBL fluid.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? NOR assigned the present Incident ID nAPP2230983706 was filed on 11/10/2022.	

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why: 	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. Printed Name: Bob Hall Title: Environmental Manager Signature: _____/s/ Bob Hall Date: 11/21/2022 email: bhall@btaoil.com Telephone: 432-682-3753	
<u>OCD Only</u> Received by: <u>Jocelyn Harimon</u> Date: <u>11/21/2022</u>	

Location Young #1 Tank Failure

API #

Spill Date 11/11/2022

Spill Dimensions

ENTER - Length of Spill

81.5 feet

ENTER - Width of Spill

81.5 feet

ENTER - Saturation Depth of Spill

6 inches

ENTER - Porosity Factor

0.2 decimal

Oil Cut - Well Test / Vessel Throughput or Contents

Oil

99.999

Water

0.001

Calculated Oil Cut

0.99999

Volume Recovered in Truck / Containment

ENTER - Recovered Oil

100 BBL

ENTER - Recovered Water

0 BBL

Calculated Values

Release of Oil in Soil - Unrecovered

calculated
118 BBL

Release of Water in Soil - Unrecovered

0 BBL

Unrecovered Total Release

118 BBL

Calculated Values

Total Release of Oil

calculated
218 BBL

Total Release of Water

0 BBL

Total Release

218 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 Porosity5.615 ft³ / BBL

X

Oil Cut
(or Water Cut)

Release extent approx: 5,295 sq ft

Containment area: 1,320 sq ft



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

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

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

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

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

CONDITIONS

Action 160584

CONDITIONS

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297
	Action Number: 160584
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	11/21/2022

Incident ID	nAPP2231476257
District RP	
Facility ID	fAPP2201832674
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>50 -100 (ft,bgs)</u>
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

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

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

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within 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.

Form C-141

Page 4

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2231476257
District RP	
Facility ID	fAPP2201832674
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: Bob Hall Title: Environmental ManagerSignature:  Date: 3/10/2023email: bhall@btaoil.com Telephone: 432-682-3753**OCD Only**Received by: Jocelyn Harimon Date: 03/10/2023

Form C-141

Page 6

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2231476257
District RP	
Facility ID	fAPP2201832674
Application ID	


Closure

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

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

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Bob Hall Title: Environmental Manager
Signature:  Date: 3/10/2023
email: bhall@btaoil.com Telephone: 432-682-3753

OCD Only

Received by: Jocelyn Harimon Date: 03/10/2023

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by:  Date: 03/20/2023
Printed Name: Jennifer Nobui Title: Environmental Specialist A

District I

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

CONDITIONS

Action 195804

CONDITIONS

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297
	Action Number: 195804
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved. Please note, however, that the depth to groundwater has not been adequately determined. When nearby wells are used to determine depth to groundwater, the wells should be no further than ½ mile away from the site and data should be no more than 25 years old. Two points on pad were above criteria, FS03 and FS05, with chloride data >600 mg/kg. Please implement 19.15.29.13 NMAC when completing P&A.	3/20/2023