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 applicablity 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

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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 personel 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



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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



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

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 1Soil 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



Tacoma Morrissey Senior Geologist





FIGURES

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TABLES

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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 C	Closure Criteria (I	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	

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NMOCD Table I CI	osure Criteria (I	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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NMOCD Table I C	losure Criteria (I	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	

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	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 (I	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		

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				You BTA	TABLE 1 LE ANALYTIC ing #1 Tank B Oil Producers County, New I	s, LLC					
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 C	Closure Criteria (I	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

US&&iv2005000500058446.32E.16.223433

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.

		Out	put formats				
Table of d	ata						
Tab-separ	ated data						
Graph of d	lata						
Reselect p	period						
\$	Referenced vertical \$ datum	O Status O	Method of the measurement	Measuring agency	Source of the surgery states and the surgery	Water-level approval status	0
						510105	
-	i						-
3710.28	NGVD29	P	Z				A
3711.85	NAVD88	P	Z				A
5711.05	147000	P	Z				A
3711.28	NGVD29	P	Z				A
3712.85	NAVD88	p	z				A
		р	z				А
3711.78	NGVD29	P	Z				А
3713.35	NAVD88	P	z				А
		P	Z				А
3712.27	NGVD29	P	Z				А
3713.84	NAVD88	P	Z				А
		P	z				А
3712.76	NGVD29	P	Z				А
3714.33	NAVD88	P	Z				А
		Р	Z				А
3713.84	NGVD29	1	Z				Α
3715.41	NAVD88	1	Z				А
		1	Z				۵

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



Received by OCD: 3/10/2023 1:27:58 New Mexico Office of the State Engineer Page 17 of 204



Point of Diversion Summary

			(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) (?					(NAD83 U	(NAD83 UTM in meters)		
Well Tag	POD	Number	Q64 Q1	6 Q4	Sec	Tws	Rng	X	Y		
	CP (00566 POD1	4 4	1	04	18S	32E	614960	3627280*		
Driller Lic	Driller License: 46		Driller Co	mpan	y:	AB	BOTT BI	ROTHERS	COMPANY		
Driller Name: ABBOTT, MUR		RELL									
Drill Start Date: 06/01/1977		Drill Finis	sh Dat	e:	00	5/03/1977	7 Ph	ig Date:			
Log File Date: 06/13/1977		06/13/1977	PCW Rcv Date:				So	urce:	Shallow		
Pump Typ	e:		Pipe Discharge Size:					Es	:		
Casing Siz	ze:	6.63	Depth Well:			133 feet		De	Depth Water:		
	Wate	er Bearing Stratii	ications:	To	рE	Bottom	Descri	ption			
				6	5	133	Sandst	one/Gravel	/Conglomerate	e	
Casing Perfora			forations:	To	рE	Bottom					
				6	5	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, or suitability for any particular purpose of the data.

11/23/22 9:27 AM

POINT OF DIVERSION SUMMARY



APPENDIX B

Photographic Log

Released to Imaging: 3/20/2023 10:00:44 AM





APPENDIX C

Laboratory Analytical Reports



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/ga/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



		ENSOLUM HADLIE GREEN 3122 NATIONAL PARKS H CARLSBAD NM, 88220 Fax To:	łWY	
Received:	11/21/2022		Sampling Date:	11/16/2022
Reported:	11/29/2022		Sampling Type:	Soil
Project Name:	YOUNG #1		Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN		Sample Received By:	Shalyn Rodriguez
Project Location:	BTA			

Sample ID: SS01 (H225477-01)

BTEX 8021B	mg,	kg	Analyze	d 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 BTEX	2760	30.0	11/23/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	69.9-14	0						
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	Analyze	d By: MS					S-06
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	45.3-16	1						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM HADLIE GREEN 3122 NATIONAL PARKS HW CARLSBAD NM, 88220 Fax To:	ſŶ	
Received:	11/21/2022		Sampling Date:	11/16/2022
Reported:	11/29/2022		Sampling Type:	Soil
Project Name:	YOUNG #1		Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN		Sample Received By:	Shalyn Rodriguez
Project Location:	BTA			

Sample ID: SS02 (H225477-02)

BTEX 8021B	mg	/kg	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d 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	Analyze	d 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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	656	% 46.3-17	0						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM HADLIE GREEN 3122 NATIONAL PARKS HW CARLSBAD NM, 88220 Fax To:	ľY	
Received:	11/21/2022		Sampling Date:	11/16/2022
Reported:	11/29/2022		Sampling Type:	Soil
Project Name:	YOUNG #1		Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN		Sample Received By:	Shalyn Rodriguez
Project Location:	BTA			

Sample ID: SS03 (H225477-03)

BTEX 8021B	mg	/kg	Analyze	d 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	% 69.9-14	0						
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	Analyze	d 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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	470	% 46.3-17	0						

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*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM HADLIE GREEN 3122 NATIONAL PARKS HW CARLSBAD NM, 88220 Fax To:	ľY	
Received:	11/21/2022		Sampling Date:	11/16/2022
Reported:	11/29/2022		Sampling Type:	Soil
Project Name:	YOUNG #1		Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN		Sample Received By:	Shalyn Rodriguez
Project Location:	BTA			

Sample ID: SS04 (H225477-04)

BTEX 8021B	mg/	/kg	Analyze	d 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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	1250	% 46.3-17	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM HADLIE GREEN 3122 NATIONAL PARKS HW CARLSBAD NM, 88220 Fax To:	ľY	
Received:	11/21/2022		Sampling Date:	11/16/2022
Reported:	11/29/2022		Sampling Type:	Soil
Project Name:	YOUNG #1		Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN		Sample Received By:	Shalyn Rodriguez
Project Location:	BTA			

Sample ID: SS05 (H225477-05)

BTEX 8021B	mg/	kg	Analyze	d 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 9	69.9-14	0						
Chloride, SM4500Cl-B	mg/kg An		Analyze	d 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	Analyze	d 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	45.3-16	1						
Surrogate: 1-Chlorooctadecane	2360	% 46.3-17	8						

Cardinal Laboratories

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM HADLIE GREEN 3122 NATIONAL PARKS HW CARLSBAD NM, 88220	٧Y	
		Fax To:		
Received:	11/21/2022		Sampling Date:	11/16/2022
Reported:	11/29/2022		Sampling Type:	Soil
Project Name:	YOUNG #1		Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN		Sample Received By:	Shalyn Rodriguez
Project Location:	BTA			

Sample ID: SS06 (H225477-06)

BTEX 8021B	mg/	′kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	11/22/2022	ND	400	100	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	92.2	% 46.3-17	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM HADLIE GREEN 3122 NATIONAL PARKS HW CARLSBAD NM, 88220 Fax To:	Y	
Received: Reported: Project Name: Project Number: Project Location:	11/21/2022 11/29/2022 YOUNG #1 NONE GIVEN BTA		Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	11/16/2022 Soil Cool & Intact Shalyn Rodriguez

Sample ID: SS07 (H225477-07)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	85.9	% 46.3-17	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM HADLIE GREEN 3122 NATIONAL PARKS HW CARLSBAD NM, 88220 Fax To:	Y	
Received:	11/21/2022		Sampling Date:	11/16/2022
Reported:	11/29/2022		Sampling Type:	Soil
Project Name:	YOUNG #1		Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN		Sample Received By:	Shalyn Rodriguez
Project Location:	BTA			

Sample ID: SS08 (H225477-08)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	45.3-16	1						
Surrogate: 1-Chlorooctadecane	85.9	46.3-17	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM HADLIE GREEN 3122 NATIONAL PARKS HW CARLSBAD NM, 88220 Fax To:	Y	
Received: Reported: Project Name: Project Number: Project Location:	11/21/2022 11/29/2022 YOUNG #1 NONE GIVEN BTA		Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	11/16/2022 Soil Cool & Intact Shalyn Rodriguez

Sample ID: SS09 (H225477-09)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/22/2022 NE		400	100	400	0.00	
TPH 8015M	mg/	′kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	93.5	% 46.3-17	8						

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Celey D. Keene, Lab Director/Quality Manager



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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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

affinitus or successors arising out of or related to the performance of Sectoral, regardness or written such claim Relinquished By: Date: Received By: 11/3/134 Received By: N/3<30	FOR LAB USE ONLY Sample I.D. MATRX PRESERV SAMPLING Lab I.D. Sample I.D. Sample I.D. (G) RAB OR (C) OMP. (G) RAB OR (C) OMP. H2254177 SS 01 SS 02 (G) RAB OR (C) OMP. (G) RAB OR (C) OMP. H2254177 SS 02 (G) RAB OR (C) OMP. (G) RAB OR (C) OMP. (G) RAB OR (C) OMP. H2254177 SS 02 (G) RAB OR (C) OMP. (G) RAB OR (C) OMP. (G) RAB OR (C) OMP. H2254177 SS 02 (G) RAB OR (C) OMP. (G) RAB OR (C) OMP. (G) RAB OR (C) OMP. H2254177 SS 02 (G) RAB OR (C) OMP. (G) RAB OR (C) OMP. (G) RAB OR (C) OMP. H22501 SS 02 (G) RAB OR (C) OMP. (G) RAB OR (C) OMP. (G) RAB OR (C) OMP. SS 02 SS 02 (G) RAB OR (C) OMP. (G) RAB OR (C) OMP. (G) RAB OR (C) OMP. SS 02 SS 02 (G) RAB OR (C) OMP. (G) RAB OR (C) OMP. (G) RAB OR (C) OMP. SS 02 SS 02 (G) RAB OR (C) OMP. (G) RAB OR (C) OMP. (G) RAB OR (C) OMP. SS 02 SS 02 (G) RAB OR (C) OMP. (G) RAB OR (C) OMP. (G) RAB OR (C) OMP. SS 02 SS 02 (G) RAB OR (C) RAB	CONCY WAILING	Sampler Name:		ame: Youns #1	Project Owner: 15TA 0:1	Phone #: 432-557-8895 Fax #:	State: 1 X Zip: 7 2 4 3	D 11 D 1 CENTRY JUE DOJU	Fathan 4.	Project Manager: Had lis Careso	Company Name: Enselum. LLC
By: Verbal Result: Yes No Add'l Phone #: By: All Results are emailed. Please provide Email address: By: REMARKS: Ng rt en@ Chsolvr.con Sample Condition CHECKED BY: Turnaround Time: Standard Bacteria (only) Sample Condition Cool Intact V(Initials) Turnaround Time: Standard Bacteria (only) Sample Condition Cool Intact V(Initials) Themometer ID #113 Except Yes Observed Temp. °C	SOIL SOIL SOIL SILUDGE OTHER: ACID/BASE: ICE / COOL OTHER: ACID/BASE: ICE / COOL OTHER: DATE IL/C/22 9:35 9:35 9:35 10:55 11/1 0:55 11/1 0:55 11/1 0:55 11/1 0:55 11/1 0:55 11/1 0:55 11/1 0:55 11/1 0 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1	DDECEDV	101 UN 11	phone #: 432-312-2203	State: TX Zip: 79701	City: /) id on a management		3 Attn: 1505 Tell	> Attn: 12 4 4 1	Company: BTA Oil	P.O. #	BILL TO ANALTSIS REQUEST

Page 32 of 204



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/qa/lab_accred_certif.html.

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

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

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

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

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

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



CARLSBAD NM, 88220 Project Manager: HADLIE GREEN Fax To:	
---	--

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.

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220			Project Num Project Mana		2012015	N		2	Reported: 20-Dec-22 15:	51
				03 0-4 840-01 (Se						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
Inorganic Compounds										
Chloride	16.0		16.0	mg/kg	4	2121301	AC	13-Dec-22	4500-Cl-B	
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	
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	
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



ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220			Project Num Project Mana		2012015	N		2	Reported: 0-Dec-22 15:	51
				7 04 0-4 840-02 (So						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
<u>Inorganic Compounds</u> Chloride	80.0		16.0	mg/kg	4	2121306	GM	15-Dec-22	4500-Cl-B	
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	ЛН	13-Dec-22	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2121234	ЛН	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	ЛН	13-Dec-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			105 %	69.9	-140	2121234	JH	13-Dec-22	8021B	
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			92.9 %	45.3	-161	2121230	MS	13-Dec-22	8015B	
Surrogate: 1-Chlorooctadecane			98.6 %	46.3	-178	2121230	MS	13-Dec-22	8015B	

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager


ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220			Project Num Project Mana		2012015	N		2	Reported: 0-Dec-22 15:	51
				7 05 0-4 840-03 (So						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
<u>Inorganic Compounds</u> Chloride	48.0		16.0	mg/kg	4	2121306	GM	15-Dec-22	4500-Cl-B	
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	
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	
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



ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220			Project Num Project Mana		2012015	N		2	Reported: 0-Dec-22 15:	51
				7 06 0-4 840-04 (Se						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
<u>Inorganic Compounds</u> Chloride	16.0		16.0	mg/kg	4	2121306	GM	15-Dec-22	4500-Cl-B	
Volatile Organic Compounds by l	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	ЛН	13-Dec-22	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2121234	ЛН	13-Dec-22	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	2121234	ЛН	13-Dec-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2121234	ЈН	13-Dec-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			101 %	69.9	-140	2121234	ЛН	13-Dec-22	8021B	
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			79.3 %	45.3	-161	2121230	MS	13-Dec-22	8015B	
Surrogate: 1-Chlorooctadecane			84.6 %	46.3	-178	2121230	MS	13-Dec-22	8015B	

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Celey D. Keene, Lab Director/Quality Manager



ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220			Project Num Project Mana Fax		2012015 DLIE GREEM	1		2	Reported: 0-Dec-22 15:	51
			H2258	840-05 (So	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	32.0		16.0	mg/kg	4	2121306	GM	15-Dec-22	4500-Cl-B	
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	ЈН	13-Dec-22	8021B	
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	
Surrogate: 1-Chlorooctadecane			107 %	46.3	-178	2121230	MS	13-Dec-22	8015B	

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220			Project Num Project Mana Fax SW		2012015 DLIE GREEM	N		2	Reported: 0-Dec-22 15:	51
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
<u>Inorganic Compounds</u> Chloride	32.0		16.0	mg/kg	4	2121306	GM	15-Dec-22	4500-Cl-B	
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	ЛН	13-Dec-22	8021B	
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	
Surrogate: 1-Chlorooctadecane			111 %	46.3	-178	2121230	MS	13-Dec-22	8015B	

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220			Project Num Project Mana Fax	iger: HAE To:	2012015 DLIE GREEM	N		2	Reported: 0-Dec-22 15:	51
				' 12 0-4 840-07 (So						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
<u>Inorganic Compounds</u> Chloride	48.0		16.0	mg/kg	4	2121306	GM	15-Dec-22	4500-Cl-B	
Volatile Organic Compounds by l	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	2121234	ЛН	13-Dec-22	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	2121234	ЛН	13-Dec-22	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2121234	ЛН	13-Dec-22	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	2121234	ЛН	13-Dec-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2121234	ЛН	13-Dec-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			100 %	69.9	-140	2121234	ЈН	13-Dec-22	8021B	
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	
Surrogate: 1-Chlorooctadecane			84.5 %	46.3	-178	2121230	MS	13-Dec-22	8015B	

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



5122 10 (11010/12 17/10/15 11/11	Project: YOUNG #1 oject Number: 03C2012015 oject Manager: HADLIE GREEN Fax To:	Reported: 20-Dec-22 15:51
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Inorganic Compounds - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2121301 - 1:4 DI Water										
Blank (2121301-BLK1)				Prepared &	& Analyzed:	13-Dec-22	2			
Chloride	ND	16.0	mg/kg							
LCS (2121301-BS1)				Prepared &	& Analyzed:	13-Dec-22	2			
Chloride	400	16.0	mg/kg	400		100	80-120			
LCS Dup (2121301-BSD1)				Prepared &	& Analyzed:	13-Dec-22	2			
Chloride	432	16.0	mg/kg	400		108	80-120	7.69	20	
Batch 2121306 - 1:4 DI Water										
Blank (2121306-BLK1)				Prepared: 1	13-Dec-22 A	Analyzed: 1	5-Dec-22			
Chloride	ND	16.0	mg/kg							
LCS (2121306-BS1)				Prepared:	13-Dec-22 /	Analyzed: 1	5-Dec-22			
Chloride	416	16.0	mg/kg	400		104	80-120			
LCS Dup (2121306-BSD1)				Prepared: 1	13-Dec-22	Analyzed: 1	5-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



ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220	Project: Project Number: Project Manager: Fax To:		Reported: 20-Dec-22 15:51
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Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal	Laboratories

Amolerto	Result	Reporting Limit	Units	Spike	Source Result	%REC	%REC	RPD	RPD Limit	Nata
Analyte	Kesult	Limit	Units	Level	Result	%REC	Limits	KPD	Limit	Notes
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-BSD1)				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

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220		Project Nu Project Ma	umber:	YOUNG #1 03C2012015 HADLIE GRI					Reported: Dec-22 1	5:51
	Volatile Organic (•	•	A Method 8 Doratories	021 - Qu	ality Co	ntrol			
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2121234 - Volatiles										
Blank (2121234-BLK1)				Prepared: 1	2-Dec-22 A	Analyzed: 1	3-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: 1	2-Dec-22 A	Analyzed: 1	3-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-BSD1)				Prepared: 1	2-Dec-22 A	Analyzed: 1	3-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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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220	Project: Project Number: Project Manager: Fax To:		Reported: 20-Dec-22 15:51
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Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2121230 - General Prep - Organics										
Blank (2121230-BLK1)				Prepared: 1	12-Dec-22 A	Analyzed: 1	3-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 A	Analyzed: 1	3-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-BSD1)				Prepared:	12-Dec-22 A	Analyzed: 1	3-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. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

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

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

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

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

	(010) 000-2020 FM	FAA (010) 000-2410	10						
Company Name:	Ensolum. LLC			BILL TO			ANALYSIS	REQUEST	
Project Manager:		5		P.O. #:					
Address: 601 N	r#	00		Company: \$74 Oi					
City: Midland		State: TX	Zip: 79701	Attn: 826 H2/1					
Phone #: 432	2-557-6895 Fax #:	Fax #:		Address: 104 5 /	Pecos St.				
Project #: のと	0762012015	Project Owner:		City: Midlend					
Project Name:	Couna # Tank	K Battery		State: TX Zip: KTC/	701				
Project Location:	32,7672			Phone #: 432-312-2203	2203				
Sampler Name:	12450 Packer	\		Fax #:					
FOR LAB USE ONLY			MATRIX	PRESERV. SAM	SAMPLING				
Lab I.D.	Sample I.D.	Sample Depth (feet)	RAB OR (C)OMP. ONTAINERS OUNDWATER STEWATER L JDGE	HER : D/BASE: / COOL HER :	BTEX	BTEX TP4 Chloride			
	Siver 03	'pro	×	12/4	122 0935 X	XX			
N	5002 04				0440	-			
S	5003 05	_			0445				
4	Swoy 06				0950				
~) -	Pw0507				0955				
6	50061				1000				
7	Swot 12	V	V	<	1005 V	4			
	J				8				
	12/20/20								
PLEASE NOTE: Liability and analyses. All claims including service. In no event shall Car	Damages. Cardinal's liability and clen those for negligence and any other ca dinal be liable for incidental or consequ	t's exclusive remedy for an use whatsoever shall be di rental damages, including v	y claim arising whether based in contrac eemed walved unless made in writing ar without limitation, business interruptions.	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim aixing whether based in contract or tort, shall be limited to the and/unitipatibly the client to the analytes. 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 digs after completion of the applicable service. In no event shall Cardinal be liable for incidential or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurried by tilent, its subsidiarities,	aid by the client for the ter completion of the applic (client, its subsidiaries,	able			
Affiliates or successors arising Relinquished By:	out of or related to the performance o	Date: 17-17-22	rdinal, regardless of whether such claim Received By:	ariliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of Weether such daim is based upon any of the above safet reasons or of meressors or of meressors or of meressors or of the services arising events of the services are related to the performance of services are related to the performance of services are related and any of the above safet reasons or of meressors or of meressors or of the services are related to the performance of s	Verbal Result: All Results are	in l	Add'I Phone #:	<u>«</u>	
Junt	man	Time 2076	Call March	Malak	All Results are emailed BJennings@ensolum.	0 '	prease provide Email address:		
Rélinquished By:		Date:	Received By:		REMARKS:				
		Time:							

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

Received by	OCD:	3/10/2023	1:27:58 PM
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Sampler - UPS - Bus - Other: Delivered By: (Circle One)

Observed Corrected Temp.

emp.

C 1 2. ĉ li 2

Sample Condition Cool Intact Yes Yes

CHECKED BY: (Initials) 4 G 1

Turnaround Time:

Standard Rush

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

Corrected Temp. °C

Thermometer ID #113 Correction Factor -0.5°C

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

DRC



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/qa/lab_accred_certif.html.

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

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

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

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

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

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: YOUN Project Number: 03C2 Project Manager: HADL Fax To:	012015	Reported: 21-Dec-22 12:39
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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

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705		Project: Project Number: Project Manager: Fax To:		Reported: 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.

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705			Project Num Project Mana		2012015	١		2	Reported: 1-Dec-22 12:	39
				FS 41 917-01 (Se	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Labora	tories					
Inorganic Compounds										
Chloride	464		16.0	mg/kg	4	2121635	GM	16-Dec-22	4500-Cl-B	
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	
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	
Surrogate: 1-Chlorooctadecane			105 %	46.3	-178	2121532	MS	17-Dec-22	8015B	

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Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705		Project:YOUNG #1Reported:Project Number:03C201201521-Dec-22 12:39Project Manager:HADLIE GREENFax To:Fax To:							39	
				FS 42 917-02 (Se	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds	22.0		16.0	ma/ka	4	2121635	GM	16-Dec-22	4500-Cl-B	
Chloride	32.0		16.0	mg/kg	4	2121035	GW	10-Dec-22	4300-СІ-В	
Volatile Organic Compound)21								
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 (P.	ID)		113 %	69.9	-140	2121544	MS	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*	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	
Surrogate: 1-Chlorooctadecane			91.6 %	46.3	-178	2121532	MS	17-Dec-22	8015B	

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Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705			Project Num Project Mana		2012015	N		2	Reported: 1-Dec-22 12:	39
				FS 43 917-03 (Se	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Labora	tories					
<u>Inorganic Compounds</u> Chloride	32.0		16.0	mg/kg	4	2121635	GM	16-Dec-22	4500-Cl-B	
Volatile Organic Compounds b	y 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)			112 %	69.9	-140	2121544	MS	17-Dec-22	8021B	
<u>Petroleum Hydrocarbons by G</u>	C 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			95.8 %	45.3	-161	2121532	MS	17-Dec-22	8015B	
Surrogate: 1-Chlorooctadecane			105 %	46.3	-178	2121532	MS	17-Dec-22	8015B	

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Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project:YOUNG #1Reported:Project Number:03C201201521-Dec-22 12:39Project Manager:HADLIE GREENFax To:Fax To:								39	
				FS 44 917-04 (Se	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds Chloride	<16.0		16.0	mg/kg	4	2121635	GM	16-Dec-22	4500-Cl-B	
		0.01	10.0	ilig/kg	4	2121055	GW	10-Dee-22	4500-61-0	
Volatile Organic Compounds Benzene*	<u>oy EPA Method 8</u> <0.050	021	0.050		50	2121615	JH	17-Dec-22	8021B	
Toluene*	<0.050		0.050	mg/kg mg/kg	50 50	2121615	л Л	17-Dec-22	8021B 8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2121615	Л	17-Dec-22	8021B	
Total Xylenes*	< 0.150		0.050	mg/kg	50	2121615	Л	17-Dec-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2121615	Л	17-Dec-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			103 %	69.9	-140	2121615	ЛН	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			88.1 %	45.3	-161	2121532	MS	17-Dec-22	8015B	
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



ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project:YOUNG #1Reported:Project Number:03C201201521-Dec-22 12:39Project Manager:HADLIE GREENFax To:Fax To:								39	
				FS 45 017-05 (Se	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds Chloride	<16.0		16.0	mg/kg	4	2121635	GM	16-Dec-22	4500-Cl-B	
		0.01	10.0	ilig/kg	-	2121055	GW	10-Dee-22	4500-61-0	
Volatile Organic Compounds Benzene*	<u>by EPA Method 8</u> <0.050	021	0.050		50	2121615	JH	17-Dec-22	8021B	
Toluene*	<0.050		0.050	mg/kg mg/kg	50	2121615	л Л	17-Dec-22	8021B 8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2121615	Л	17-Dec-22	8021B	
Total Xylenes*	<0.150		0.050	mg/kg	50	2121615	Л	17-Dec-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2121615	Л	17-Dec-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID			103 %	69.9	-140	2121615	ЛН	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			84.6 %	45.3	-161	2121532	MS	17-Dec-22	8015B	
Surrogate: 1-Chlorooctadecane			92.0 %	46.3	-178	2121532	MS	17-Dec-22	8015B	

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ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705		Project:YOUNG #1Reported:Project Number:03C201201521-Dec-22 12:39Project Manager:HADLIE GREENFax To:Fax To:								
				FS 46 917-06 (Se	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
<u>Inorganic Compounds</u> Chloride	304		16.0	mg/kg	4	2121635	GM	16-Dec-22	4500-Cl-B	
Volatile Organic Compound	s by EPA Method 8	021								
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	ЈН	17-Dec-22	8021B	
Surrogate: 4-Bromofluorobenzene (PL	D)		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



ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705		Project: YOUNG #1 Reported: Project Number: 03C2012015 21-Dec-22 12:39 Project Manager: HADLIE GREEN Fax To:								39
				FS 47 917-07 (Se	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
<u>Inorganic Compounds</u> Chloride	16.0		16.0	mg/kg	4	2121635	GM	16-Dec-22	4500-Cl-B	
Volatile Organic Compounds	s by EPA Method 8	021								
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 (PI	D)		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			85.2 %	45.3	-161	2121532	MS	17-Dec-22	8015B	
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



ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: YOUNG #1 Reported: Project Number: 03C2012015 21-Dec-22 12 Project Manager: HADLIE GREEN Fax To:								:39	
				FS 48 917-08 (Se	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	<16.0		16.0	mg/kg	4	2121635	GM	16-Dec-22	4500-Cl-B	
Volatile Organic Compounds	by EPA Method 8	8021								
Benzene*	< 0.050		0.050	mg/kg	50	2121615	ЛН	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	ЛН	17-Dec-22	8021B	
Surrogate: 4-Bromofluorobenzene (PIL))		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



ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: YOUNG #1 Reported: Project Number: 03C2012015 21-Dec-22 12:39 Project Manager: HADLIE GREEN Fax To:									39
				FS 49 917-09 (Se	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
<u>Inorganic Compounds</u> Chloride	464		16.0	mg/kg	4	2121635	GM	16-Dec-22	4500-Cl-B	
Volatile Organic Compounds b	y 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	ЛН	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 G	C 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	
Surrogate: 1-Chlorooctadecane			110 %	46.3	-178	2121532	MS	17-Dec-22	8015B	

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Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705		Project: YOUNG #1 Reported: Project Number: 03C2012015 21-Dec-22 12:39 Project Manager: HADLIE GREEN Fax To:								
				FS 50 917-10 (Se	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
<u>Inorganic Compounds</u> Chloride	800		16.0	mg/kg	4	2121635	GM	16-Dec-22	4500-Cl-B	
Volatile Organic Compound	s by EPA Method 8	021								
Benzene*	< 0.050		0.050	mg/kg	50	2121615	ЈН	17-Dec-22	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	2121615	ЛН	17-Dec-22	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2121615	ЛН	17-Dec-22	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	2121615	ЛН	17-Dec-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2121615	ЛН	17-Dec-22	8021B	
Surrogate: 4-Bromofluorobenzene (P	ID)		106 %	69.9	-140	2121615	ЛН	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*	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	
Surrogate: 1-Chlorooctadecane			140 %	46.3	-178	2121532	MS	17-Dec-22	8015B	

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Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: YOUNG #1 Reported: Project Number: 03C2012015 21-Dec-22 12:39 Project Manager: HADLIE GREEN Fax To:									39
				FS 51 917-11 (Se	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
<u>Inorganic Compounds</u> Chloride	464		16.0	mg/kg	4	2121635	GM	16-Dec-22	4500-Cl-B	
Volatile Organic Compounds b	y EPA Method 8	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	ЛН	17-Dec-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2121615	ЈН	17-Dec-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			105 %	69.9	-140	2121615	ЈН	17-Dec-22	8021B	
Petroleum Hydrocarbons by G	C 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	
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



ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705		Project: YOUNG #1 Reported: Project Number: 03C2012015 21-Dec-22 12:39 Project Manager: HADLIE GREEN Fax To:								39
				FS 52 917-12 (Se	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
<u>Inorganic Compounds</u> Chloride	64.0		16.0	mg/kg	4	2121635	GM	19-Dec-22	4500-Cl-B	
Volatile Organic Compounds	s by EPA Method 8	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	ЛН	17-Dec-22	8021B	
Surrogate: 4-Bromofluorobenzene (PI	D)		104 %	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			87.3 %	45.3	-161	2121532	MS	17-Dec-22	8015B	
Surrogate: 1-Chlorooctadecane			93.1 %	46.3	-178	2121532	MS	17-Dec-22	8015B	

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705			Project Num Project Mana		2012015	1		2	Reported: 1-Dec-22 12:	39
				FS 53 917-13 (So	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
<u>Inorganic Compounds</u> Chloride	48.0		16.0	mg/kg	4	2121635	GM	19-Dec-22	4500-Cl-B	
Volatile Organic Compounds b	y 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	ЛН	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	
Petroleum Hydrocarbons by G	C 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			97.9 %	45.3	-161	2121532	MS	17-Dec-22	8015B	
Surrogate: 1-Chlorooctadecane			107 %	46.3	-178	2121532	MS	17-Dec-22	8015B	

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Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project:YOUNG #1Reported:Project Number:03C201201521-Dec-22 12:39Project Manager:HADLIE GREENFax To:								39	
				FS 54 917-14 (Se	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
<u>Inorganic Compounds</u> Chloride	16.0		16.0	mg/kg	4	2121635	GM	19-Dec-22	4500-Cl-B	
Volatile Organic Compounds	by EPA Method 8	021								
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	ЛН	17-Dec-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2121615	JH	17-Dec-22	8021B	
Surrogate: 4-Bromofluorobenzene (PII	D)		105 %	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			90.8 %	45.3	-161	2121532	MS	17-Dec-22	8015B	
Surrogate: 1-Chlorooctadecane			98.3 %	46.3	-178	2121532	MS	17-Dec-22	8015B	

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Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project:YOUNG #1Reported:Project Number:03C201201521-Dec-22 12:39Project Manager:HADLIE GREENFax To:Fax To:										
				FS 55 917-15 (Se	oil)						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes	
			Cardina	l Laborat	tories						
Inorganic Compounds Chloride	32.0		16.0	mg/kg	4	2121635	GM	19-Dec-22	4500-Cl-B		
		0021	10.0	ing/kg	·	2121000	Giù	1) 100 22	1500 61 5		
Volatile Organic Compounds by Benzene*	<u>EPA Method</u> <0.050	8021	0.050	mg/kg	50	2121615	ЛН	17-Dec-22	8021B		
Toluene*	<0.030		0.050	mg/kg	50 50	2121015	л	17-Dec-22	8021B 8021B		
Ethylbenzene*	<0.050		0.050	mg/kg	50	2121615	Л	17-Dec-22	8021B		
Total Xylenes*	< 0.150		0.150	mg/kg	50	2121615	Л	17-Dec-22	8021B		
Total BTEX	< 0.300		0.300	mg/kg	50	2121615	ЛН	17-Dec-22	8021B		
Surrogate: 4-Bromofluorobenzene (PID)			106 %	69.9	-140	2121615	ЈН	17-Dec-22	8021B		
Petroleum Hydrocarbons by GC	C 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		
Surrogate: 1-Chlorooctadecane			105 %	46.3	-178	2121532	MS	17-Dec-22	8015B		

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Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: YOUNG #1 Reported: Project Number: 03C2012015 21-Dec-22 12:39 Project Manager: HADLIE GREEN Fax To:									
				FS 56 917-16 (Se	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
<u>Inorganic Compounds</u> Chloride	320		16.0	mg/kg	4	2121635	GM	19-Dec-22	4500-Cl-B	
Volatile Organic Compounds	by EPA Method 80	21								
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 (PL	D)		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*	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	
Surrogate: 1-Chlorooctadecane			136 %	46.3	-178	2121532	MS	17-Dec-22	8015B	

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Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: YOUNG #1 Reported: Project Number: 03C2012015 21-Dec-22 12:39 Project Manager: HADLIE GREEN Fax To:									
				FS 57 917-17 (Se	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
Inorganic Compounds	16.0		16.0	mg/kg	4	2121635	GM	19-Dec-22	4500-Cl-B	
Chloride	16.0		16.0	mg/kg	4	2121055	GM	19-Dec-22	4300-СІ-В	
Volatile Organic Compounds b	y EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	2121615	ЛН	17-Dec-22	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	2121615	ЛН	17-Dec-22	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2121615	ЛН	17-Dec-22	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	2121615	ЛН	17-Dec-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2121615	ЛН	17-Dec-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			106 %	69.9	-140	2121615	JH	17-Dec-22	8021B	
<u>Petroleum Hydrocarbons by G</u>	C 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



ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project:YOUNG #1Reported:Project Number:03C201201521-Dec-22 12:39Project Manager:HADLIE GREENFax To:Fax To:										
				FS 58 917-18 (Se	oil)						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes	
			Cardina	l Labora	tories						
<u>Inorganic Compounds</u> Chloride	48.0		16.0	mg/kg	4	2121916	GM	19-Dec-22	4500-Cl-B		
Volatile Organic Compounds b	y EPA Method	8021									
Benzene*	< 0.050		0.050	mg/kg	50	2121615	ЛН	17-Dec-22	8021B		
Toluene*	< 0.050		0.050	mg/kg	50	2121615	ЛН	17-Dec-22	8021B		
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2121615	ЈН	17-Dec-22	8021B		
Total Xylenes*	< 0.150		0.150	mg/kg	50	2121615	ЛН	17-Dec-22	8021B		
Total BTEX	< 0.300		0.300	mg/kg	50	2121615	ЛН	17-Dec-22	8021B		
Surrogate: 4-Bromofluorobenzene (PID)			105 %	69.9	-140	2121615	ЛН	17-Dec-22	8021B		
Petroleum Hydrocarbons by G	C 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		
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



ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: YOUNG #1 Reported: Project Number: 03C2012015 21-Dec-22 12:39 Project Manager: HADLIE GREEN Fax To:									
				FS 59 917-19 (Se	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
<u>Inorganic Compounds</u> Chloride	464		16.0	mg/kg	4	2121916	GM	19-Dec-22	4500-Cl-B	
Volatile Organic Compounds	by EPA Method 80	021								
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 (PI	D)		104 %	69.9	-140	2121615	JH	17-Dec-22	8021B	
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	
Surrogate: 1-Chlorooctane			82.4 %	45.3	-161	2121533	MS	19-Dec-22	8015B	
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



ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705		Project:YOUNG #1Reported:Project Number:03C201201521-Dec-22 12:39Project Manager:HADLIE GREENFax To:Fax To:									
				FS 60 917-20 (Se	oil)						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes	
			Cardina	l Laborat	ories						
<u>Inorganic Compounds</u> Chloride	912		16.0	mg/kg	4	2121916	GM	19-Dec-22	4500-Cl-B		
Volatile Organic Compound	ls by EPA Method 8	021									
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	ЈН	17-Dec-22	8021B		
Surrogate: 4-Bromofluorobenzene (P	PID)		105 %	69.9	-140	2121615	JH	17-Dec-22	8021B		
Petroleum Hydrocarbons by	y 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		
Surrogate: 1-Chlorooctane			75.3 %	45.3	-161	2121533	MS	19-Dec-22	8015B		
Surrogate: 1-Chlorooctadecane			76.5 %	46.3	-178	2121533	MS	19-Dec-22	8015B		

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Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project:YOUNG #1Reported:Project Number:03C201201521-Dec-22 12:39Project Manager:HADLIE GREENFax To:Fax To:									
				FS 61 917-21 (Se	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
<u>Inorganic Compounds</u> Chloride	208		16.0	mg/kg	4	2121916	GM	19-Dec-22	4500-Cl-B	
Volatile Organic Compounds	by EPA Method 80	21								
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	ЛН	17-Dec-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2121615	JH	17-Dec-22	8021B	
Surrogate: 4-Bromofluorobenzene (PL	D)		104 %	69.9	-140	2121615	JH	17-Dec-22	8021B	
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	
Surrogate: 1-Chlorooctadecane			82.7 %	46.3	-178	2121533	MS	19-Dec-22	8015B	

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project:YOUNG #1Reported:Project Number:03C201201521-Dec-22 12:39Project Manager:HADLIE GREENFax To:Fax To:									
				FS 62 917-22 (Se	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
<u>Inorganic Compounds</u> Chloride	192		16.0	mg/kg	4	2121916	GM	19-Dec-22	4500-Cl-B	
Volatile Organic Compound	s by EPA Method 8	021								
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	ЛН	17-Dec-22	8021B	
Surrogate: 4-Bromofluorobenzene (Pl	ID)		105 %	69.9	-140	2121615	JH	17-Dec-22	8021B	
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	
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


ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705			Project Num Project Mana		2012015	١		2	Reported: 1-Dec-22 12:	39
				FS 63 917-23 (Se	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
<u>Inorganic Compounds</u> Chloride	80.0		16.0	mg/kg	4	2121916	GM	19-Dec-22	4500-Cl-B	
Volatile Organic Compounds	s by EPA Method 8	021								
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	ЛН	17-Dec-22	8021B	
Surrogate: 4-Bromofluorobenzene (PI	D)		104 %	69.9	-140	2121615	JH	17-Dec-22	8021B	
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			87.0 %	45.3	-161	2121533	MS	19-Dec-22	8015B	
Surrogate: 1-Chlorooctadecane			84.3 %	46.3	-178	2121533	MS	19-Dec-22	8015B	

Cardinal Laboratories

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705			Project Num Project Mana		2012015	١		2	Reported: 1-Dec-22 12:	39
				FS 64 917-24 (So	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
<u>Inorganic Compounds</u> Chloride	48.0		16.0	mg/kg	4	2121916	GM	19-Dec-22	4500-Cl-B	
Volatile Organic Compounds	by EPA Method 8	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 (PII))		106 %	69.9	-140	2121617	JH	17-Dec-22	8021B	
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	
Surrogate: 1-Chlorooctadecane			84.9 %	46.3	-178	2121533	MS	19-Dec-22	8015B	

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ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705			Project Num Project Mana		2012015	N		2	Reported: 1-Dec-22 12:	39
				FS 65 917-25 (Se	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
<u>Inorganic Compounds</u> Chloride	32.0		16.0	mg/kg	4	2121916	GM	19-Dec-22	4500-Cl-B	
Volatile Organic Compounds	by EPA Method 8	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	ЛН	17-Dec-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID))		105 %	69.9	-140	2121617	JH	17-Dec-22	8021B	
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	
Surrogate: 1-Chlorooctane			88.8 %	45.3	-161	2121533	MS	19-Dec-22	8015B	
Surrogate: 1-Chlorooctadecane			90.0 %	46.3	-178	2121533	MS	19-Dec-22	8015B	

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ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705			Project Num Project Mana		2012015	N		2	Reported: 1-Dec-22 12:	39
				FS 66 917-26 (Se	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
Inorganic Compounds Chloride	336		16.0	mg/kg	4	2121916	GM	19-Dec-22	4500-Cl-B	
			10.0	iiig/kg	7	2121910	GW	19-Dee-22	4500-61-8	
Volatile Organic Compounds b		3021								
Benzene*	< 0.050		0.050	mg/kg	50	2121617	ЛН	17-Dec-22	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	2121617	ЛН	17-Dec-22	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2121617	ЛН	17-Dec-22	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	2121617	Л	17-Dec-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2121617	ЈН	17-Dec-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			105 %	69.9	-140	2121617	JH	17-Dec-22	8021B	
Petroleum Hydrocarbons by G	C 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	
Surrogate: 1-Chlorooctadecane			111 %	46.3	-178	2121533	MS	19-Dec-22	8015B	

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ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705			Project Num Project Mana		2012015	١		2	Reported: 1-Dec-22 12:	39
				FS 67 917-27 (Se	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
<u>Inorganic Compounds</u> Chloride	48.0		16.0	mg/kg	4	2121916	GM	19-Dec-22	4500-Cl-B	
Volatile Organic Compounds	s by EPA Method 8	021								
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 (PI	D)		103 %	69.9	-140	2121617	JH	17-Dec-22	8021B	
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			78.7 %	45.3	-161	2121533	MS	19-Dec-22	8015B	
Surrogate: 1-Chlorooctadecane			77.1 %	46.3	-178	2121533	MS	19-Dec-22	8015B	

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ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705			Project Num Project Mana		2012015	١		2	Reported: 1-Dec-22 12:	39
				FS 68 917-28 (Se	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
Inorganic Compounds					<u> </u>		~ ~ ~			
Chloride	48.0		16.0	mg/kg	4	2121916	GM	19-Dec-22	4500-Cl-B	
Volatile Organic Compounds	s by EPA Method 8	021								
Benzene*	< 0.050		0.050	mg/kg	50	2121617	JH	17-Dec-22	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	2121617	ЛН	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	ЛН	17-Dec-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2121617	ЛН	17-Dec-22	8021B	
Surrogate: 4-Bromofluorobenzene (Pl	D)		113 %	69.9	-140	2121617	ЛН	17-Dec-22	8021B	
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	
Surrogate: 1-Chlorooctadecane			104 %	46.3	-178	2121533	MS	19-Dec-22	8015B	

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ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705			Project Num Project Mana		2012015	١		2	Reported: 1-Dec-22 12:	39
				FS 69 917-29 (Se	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
<u>Inorganic Compounds</u> Chloride	416		16.0	mg/kg	4	2121916	GM	19-Dec-22	4500-Cl-B	
Volatile Organic Compound	s by EPA Method 8	021								
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	ЈН	17-Dec-22	8021B	
Surrogate: 4-Bromofluorobenzene (P	ID)		106 %	69.9	-140	2121617	JH	17-Dec-22	8021B	
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	
Surrogate: 1-Chlorooctadecane			91.5 %	46.3	-178	2121533	MS	19-Dec-22	8015B	

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ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705			oject Nun ject Mana	oject: YOL nber: 03C ager: HAE x To:		1		2	Reported: 1-Dec-22 12:	39
			H225	FS 70 5917-30 (So	oil)					
Analyte	Result	MDL Re	porting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	ories					
<u>Inorganic Compounds</u> Chloride	992		16.0	mg/kg	4	2121916	GM	19-Dec-22	4500-Cl-B	
Volatile Organic Compound	s by EPA Method 802	21								
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	ЛН	17-Dec-22	8021B	
Surrogate: 4-Bromofluorobenzene (P.	ID)		104 %	69.9	-140	2121617	JH	17-Dec-22	8021B	
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	
Surrogate: 1-Chlorooctadecane			80.3 %	46.3	-178	2121533	MS	19-Dec-22	8015B	

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ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705			Project Num Project Mana		2012015	1		2	Reported: 1-Dec-22 12:	39
				FS 71 917-31 (Se	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
<u>Inorganic Compounds</u> Chloride	240		16.0	mg/kg	4	2121916	GM	19-Dec-22	4500-Cl-B	
Volatile Organic Compounds	by EPA Method 80	021								
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	ЈН	17-Dec-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2121617	ЛН	17-Dec-22	8021B	
Surrogate: 4-Bromofluorobenzene (PIL))		106 %	69.9	-140	2121617	JH	17-Dec-22	8021B	
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	
Surrogate: 1-Chlorooctadecane			76.8 %	46.3	-178	2121533	MS	19-Dec-22	8015B	

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ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705			Project Num Project Mana		2012015	١		2	Reported: 1-Dec-22 12:	39
				FS 72 917-32 (Se	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
<u>Inorganic Compounds</u> Chloride	64.0		16.0	mg/kg	4	2121916	GM	19-Dec-22	4500-Cl-B	
Volatile Organic Compounds	s by EPA Method 8	021								
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	ЛН	17-Dec-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2121617	ЈН	17-Dec-22	8021B	
Surrogate: 4-Bromofluorobenzene (PL	D)		105 %	69.9	-140	2121617	JH	17-Dec-22	8021B	
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			85.4 %	45.3	-161	2121533	MS	19-Dec-22	8015B	
Surrogate: 1-Chlorooctadecane			82.2 %	46.3	-178	2121533	MS	19-Dec-22	8015B	

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ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705			Project Num Project Mana		2012015	١		2	Reported: 1-Dec-22 12:	39
				FS 73 917-33 (Se	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
<u>Inorganic Compounds</u> Chloride	64.0		16.0	mg/kg	4	2121916	GM	19-Dec-22	4500-Cl-B	
Volatile Organic Compounds	s by EPA Method 8	021								
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	ЛН	17-Dec-22	8021B	
Surrogate: 4-Bromofluorobenzene (Pl	(D)		105 %	69.9	-140	2121617	JH	17-Dec-22	8021B	
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			82.1 %	45.3	-161	2121533	MS	19-Dec-22	8015B	
Surrogate: 1-Chlorooctadecane			80.1 %	46.3	-178	2121533	MS	19-Dec-22	8015B	

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ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705			Project Num Project Mana		2012015	N		2	Reported: 1-Dec-22 12:	39
				FS 74 917-34 (Se	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
<u>Inorganic Compounds</u> Chloride	32.0		16.0	mg/kg	4	2121916	GM	19-Dec-22	4500-Cl-B	
Volatile Organic Compounds	by EPA Method 8	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	ЛН	17-Dec-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2121617	ЛН	17-Dec-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID))		105 %	69.9	-140	2121617	JH	17-Dec-22	8021B	
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	
Surrogate: 1-Chlorooctadecane			82.4 %	46.3	-178	2121533	MS	19-Dec-22	8015B	

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ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705			Project Num Project Mana		2012015	N		2	Reported: 1-Dec-22 12:	39
				FS 75 917-35 (Se	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
<u>Inorganic Compounds</u> Chloride	48.0		16.0	mg/kg	4	2121916	GM	19-Dec-22	4500-Cl-B	
Volatile Organic Compounds	by EPA Method 8	8021								
Benzene*	< 0.050		0.050	mg/kg	50	2121617	ЛН	17-Dec-22	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	2121617	ЛН	17-Dec-22	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2121617	ЛН	17-Dec-22	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	2121617	ЛН	17-Dec-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2121617	ЛН	17-Dec-22	8021B	
Surrogate: 4-Bromofluorobenzene (PIL))		106 %	69.9	-140	2121617	ЛН	17-Dec-22	8021B	
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	
Surrogate: 1-Chlorooctadecane			75.2 %	46.3	-178	2121533	MS	19-Dec-22	8015B	

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ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705			Project Num Project Mana		2012015	١		2	Reported: 1-Dec-22 12:	39
				FS 76 917-36 (Se	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
<u>Inorganic Compounds</u> Chloride	272		16.0	mg/kg	4	2121916	GM	19-Dec-22	4500-Cl-B	
Volatile Organic Compounds	by EPA Method 80)21								
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 (PI	D)		106 %	69.9	-140	2121617	JH	17-Dec-22	8021B	
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	
Surrogate: 1-Chlorooctadecane			127 %	46.3	-178	2121533	MS	20-Dec-22	8015B	

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: YOUNG #1 Reported: Project Number: 03C2012015 21-Dec-22 12:39 Project Manager: HADLIE GREEN Fax To: FS 77										
				FS 77 917-37 (Se	oil)						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes	
			Cardina	l Laborat	tories						
<u>Inorganic Compounds</u> Chloride	48.0		16.0	mg/kg	4	2121916	GM	19-Dec-22	4500-Cl-B		
Volatile Organic Compounds by	y 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	ЛН	17-Dec-22	8021B		
Total BTEX	< 0.300		0.300	mg/kg	50	2121617	ЈН	17-Dec-22	8021B		
Surrogate: 4-Bromofluorobenzene (PID)			106 %	69.9	-140	2121617	ЛН	17-Dec-22	8021B		
Petroleum Hydrocarbons by G	C 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			80.5 %	45.3	-161	2121533	MS	19-Dec-22	8015B		
Surrogate: 1-Chlorooctadecane			81.3 %	46.3	-178	2121533	MS	19-Dec-22	8015B		

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Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705		Project: YOUNG #1 Reported: Project Number: 03C2012015 21-Dec-22 12:39 Project Manager: HADLIE GREEN Fax To: FS 78									
				FS 78 917-38 (Se	oil)						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes	
			Cardina	l Laborat	tories						
<u>Inorganic Compounds</u> Chloride	32.0		16.0	mg/kg	4	2121636	GM	19-Dec-22	4500-Cl-B		
Volatile Organic Compound	s by EPA Method 80	21									
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 (PA	ID)		105 %	69.9	-140	2121617	JH	17-Dec-22	8021B		
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		
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



ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705		Project: YOUNG #1 Reported: Project Number: 03C2012015 21-Dec-22 12:39 Project Manager: HADLIE GREEN Fax To: FS 79									
				FS 79 917-39 (Se	oil)						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes	
			Cardina	l Laborat	tories						
Inorganic Compounds Chloride	352		16.0	mg/kg	4	2121636	GM	19-Dec-22	4500-Cl-B		
Volatile Organic Compounds		021	1010	00							
Benzene*	< 0.050	021	0.050	mg/kg	50	2121617	ЛН	17-Dec-22	8021B		
Toluene*	< 0.050		0.050	mg/kg	50	2121617	ЛН	17-Dec-22	8021B		
Ethylbenzene*	< 0.050		0.050	mg/kg	50	2121617	ЛН	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 (PIL))		102 %	69.9	-140	2121617	ЛН	17-Dec-22	8021B		
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		
Surrogate: 1-Chlorooctadecane			102 %	46.3	-178	2121545	MS	20-Dec-22	8015B		

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Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705			Project Num Project Mana		2012015	١		2	Reported: 1-Dec-22 12:	39
				FS 80 917-40 (Se	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
<u>Inorganic Compounds</u> Chloride	864		16.0	mg/kg	4	2121636	GM	19-Dec-22	4500-Cl-B	
Volatile Organic Compound	s by EPA Method 8	021								
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	ЛН	18-Dec-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2121617	ЈН	18-Dec-22	8021B	
Surrogate: 4-Bromofluorobenzene (P	ID)		104 %	69.9	-140	2121617	JH	18-Dec-22	8021B	
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	
Surrogate: 1-Chlorooctadecane			100 %	46.3	-178	2121545	MS	20-Dec-22	8015B	

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Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705			Project Num Project Mana		2012015	N		2	Reported: 1-Dec-22 12:	39
				FS 81 917-41 (Se	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
<u>Inorganic Compounds</u> Chloride	384		16.0	mg/kg	4	2121636	GM	19-Dec-22	4500-Cl-B	
Volatile Organic Compounds	by EPA Method 8	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	ЛН	18-Dec-22	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	2121617	ЈН	18-Dec-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID))		105 %	69.9	-140	2121617	JH	18-Dec-22	8021B	
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	
Surrogate: 1-Chlorooctadecane			102 %	46.3	-178	2121545	MS	20-Dec-22	8015B	

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Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705		Project: YOUNG #1 Reported: Project Number: 03C2012015 21-Dec-22 12:39 Project Manager: HADLIE GREEN Fax To: FS 82									
				FS 82 917-42 (So	oil)						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes	
			Cardina	l Laborat	ories						
Inorganic Compounds	272		16.0	mg/kg	4	2121636	GM	19-Dec-22	4500-Cl-B		
Chloride	272		16.0	mg/kg	4	2121030	GM	19-Dec-22	4300-СІ-Б		
Volatile Organic Compound)21									
Benzene*	< 0.050		0.050	mg/kg	50	2121617	JH	18-Dec-22	8021B		
Toluene*	< 0.050		0.050	mg/kg	50	2121617	ЛН	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	ЛН	18-Dec-22	8021B		
Surrogate: 4-Bromofluorobenzene (PA	ID)		103 %	69.9	-140	2121617	JH	18-Dec-22	8021B		
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		
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



ENSOLUM, LLCProject:YOUNG #1705 W WADLEY AVE.Project Number:03C2012015MIDLAND TX, 79705Project Manager:HADLIE GREENFax To:	Reported: 21-Dec-22 12:39
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Inorganic Compounds - Quality Control Cardinal Laboratories

		0		01						
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2121635 - 1:4 DI Water										
Blank (2121635-BLK1)				Prepared &	z Analyzed:	16-Dec-22				
Chloride	ND	16.0	mg/kg							
LCS (2121635-BS1)				Prepared &	Analyzed:	16-Dec-22				
Chloride	416	16.0	mg/kg	400		104	80-120			
LCS Dup (2121635-BSD1)				Prepared &	Analyzed:	16-Dec-22				
Chloride	432	16.0	mg/kg	400		108	80-120	3.77	20	
Batch 2121636 - 1:4 DI Water										
Blank (2121636-BLK1)				Prepared &	z Analyzed:	16-Dec-22				
Chloride	ND	16.0	mg/kg							
LCS (2121636-BS1)				Prepared &	Analyzed:	16-Dec-22				
Chloride	432	16.0	mg/kg	400		108	80-120			
LCS Dup (2121636-BSD1)				Prepared &	Analyzed:	16-Dec-22				
Chloride	432	16.0	mg/kg	400		108	80-120	0.00	20	
Batch 2121916 - 1:4 DI Water										
Blank (2121916-BLK1)				Prepared &	Analyzed:	19-Dec-22				
Chloride	ND	16.0	mg/kg							
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



ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: YOUNG #1 Reported: Project Number: 03C2012015 21-Dec-22 12 Project Manager: HADLIE GREEN Fax To: Inorganic Compounds - Quality Control									
	Inor	-	-	s - Quality boratories	Control					
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2121916 - 1:4 DI Water LCS Dup (2121916-BSD1)				Prepared &	Analyzad	10 Dec 22				
Chloride	448	16.0	mg/kg	400	. Anaryzeu.	112	80-120	3.64	20	

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Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705		Project Nu Project Ma	umber:	Young #1 03c2012015 Hadlie Gri					Reported: Dec-22 12	2:39
	Volatile Organic (-	•	A Method 8 ooratories	3021 - Qu	ality Co	ntrol			
		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2121544 - Volatiles										
Blank (2121544-BLK1)				Prepared: 1	6-Dec-22 A	Analyzed: 1	7-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: 1	6-Dec-22 A	Analyzed: 1	7-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-BSD1)				Prepared: 1	6-Dec-22 A	Analyzed: 1	7-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			

Blank (2121615-BLK1) Prepared: 16-Dec-22 Analyzed: 17-Dec-22 ND Benzene 0.050 mg/kg ND 0.050 Toluene mg/kg Ethylbenzene ND 0.050 mg/kg Total Xylenes ND 0.150 mg/kg

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705		Project Nu Project Ma	umber:	YOUNG #1 03C2012015 HADLIE GRE				Reported: 21-Dec-22 12:39						
	Volatile Organic (-	•	A Method 8 boratories	021 - Qu	ality Co	ntrol							
	D. k	Reporting	TT ''	Spike	Source	N/DEC	%REC		RPD					
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes				
Batch 2121615 - Volatiles														
Blank (2121615-BLK1)				Prepared: 1	6-Dec-22 A	nalyzed: 1	7-Dec-22							
Fotal BTEX	ND	0.300	mg/kg											
Surrogate: 4-Bromofluorobenzene (PID)	0.0519		mg/kg	0.0500		104	69.9-140							
LCS (2121615-BS1)				Prepared: 1	6-Dec-22 A	nalyzed: 1	7-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							
Sthylbenzene	2.14	0.050	mg/kg	2.00		107	84.2-121							
n,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							
fotal 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-BSD1)				Prepared: 1	6-Dec-22 A	nalyzed: 1	7-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					
n,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: 1	6-Dec-22 A	nalyzed: 1	7-Dec-22							
Benzene	ND	0.050	mg/kg											
Toluene	ND	0.050	mg/kg											
Ethylbenzene	ND	0.050	mg/kg											
Fotal Xylenes	ND	0.150	mg/kg											
Fotal BTEX	ND	0.300	mg/kg											
urrogate: 4-Bromofluorobenzene (PID)	0.0521		mg/kg	0.0500		104	69.9-140							

Cardinal Laboratories

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: YOUNG #1 Project Number: 03C2012015 Project Manager: HADLIE GREE Fax To:	
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Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2121617 - Volatiles										
LCS (2121617-BS1)				Prepared: 1	6-Dec-22 A	Analyzed: 1	7-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-BSD1)				Prepared: 1	6-Dec-22 A	Analyzed: 1	7-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. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705		Project Nu Project Ma	umber: (Young #1 D3C2012015 Hadlie gre				Reported: 21-Dec-22 12:39						
	Petroleum	•	•	GC FID - Q oratories	Quality C	ontrol								
		Reporting		Spike	Source		%REC		RPD					
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes				
Batch 2121532 - General Prep - Organics														
Blank (2121532-BLK1)				Prepared: 1	5-Dec-22 A	analyzed: 1	7-Dec-22							
GRO C6-C10	ND	10.0	mg/kg	1										
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: 1	5-Dec-22 A	analyzed: 1	7-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-BSD1)				Prepared: 1	5-Dec-22 A	analyzed: 1	7-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: 1	5-Dec-22 A	nalyzed: 1	9-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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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705		Project Nu Project Ma	umber:	Young #1 03C2012015 Hadlie Gre				Reported: 21-Dec-22 12:39							
	Petroleum 1	•	•	GC FID - Q oratories	Quality C	ontrol									
		Reporting		Spike	Source		%REC		RPD						
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes					
Batch 2121533 - General Prep - Organics															
LCS (2121533-BS1)				Prepared: 1	5-Dec-22 A	Analyzed: 1	9-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-BSD1)				Prepared: 1	5-Dec-22 A	Analyzed: 1	9-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: 1	5-Dec-22 A	Analyzed: 2	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: 1	5-Dec-22 A	Analyzed: 1	9-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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Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: Y0 Project Number: 03 Project Manager: H/ Fax To:	3C2012015	Reported: 21-Dec-22 12:39
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Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2121545 - General Prep - Organics										
LCS Dup (2121545-BSD1)				Prepared: 1	15-Dec-22 A	analyzed: 1	9-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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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



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 SM4500CI-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Delivered By: (Circle One) Sampler - UPS - Bus - Ot	Relinquished By: Relinquished By:	PLEASE NOTE: Liability and analyses. All claims including service. In no event shall Car officience or successors arising	Address: City: (a) Se Project (a) Se Project Name: Sampler Name: Sampler Name: FOR UAB USE ONLY FOR UAB USE ONLY	Project Manager:	10	
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Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Received by OCD: 3/10/2023 1:27:58 PM

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ANALYSIS

REQUEST

Page 58 of 59

Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com ved by Cardinal within 30 days after completion of the applicable use, or loss of profits incurred by client, its subsidiaries, paid by the client for the All Results are emailed. Please provide Email address: Thermometer ID #113 Correction Factor -0.6°C Turnaround Time: * WSTONNUL Verbal Result: 200 071 1270 205 TIME 222 225 246 2 F Sarring □ Yes C Rush Standard ON D requested Add'l Phone #: ACC Cool Intact Bacteria (only) Sample Condition 6 Soumple Observed Temp. °C Corrected Temp. °C 12/21 60/ Released to Imaging: 3/20/2023 10:00:44 AM

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Page 105 of 204 Company Name: Project #: City: Project Manager: Address: Project Location: Project Name: Phone #: Sampler Name: FOR LAB USE ONLY Lab I.D. 3 S X 101 East Marland, Hobbs, NM 88240 aboratories (575) 393-2326 FAX (575) 393-2476 ARDIN Sample I.D Coralallaa 5 L Project Owner: Fax #: State: Zip (G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER MATRIX SOIL OIL SLUDGE City: P.O. #: OTHER Fax #: Phone #: State: Address: Attn: Company: ACID/BASE: PRESERV. ICE / COOL BILL OTHER Zip: カル DATE 10 SAMPLING

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	ANALYSIS REQUEST

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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/ga/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



ENSOLUM 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, -103.7	7298							

Sample ID: FS 21 A (H226045-01)

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	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 BTEX	<0.300	0.300	12/22/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	69.9-14	0						
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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	79.8	% 46.3-17	8						

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*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager


Analytical Results For:

		ENSOLUM HADLIE GREEN 3122 NATIONAL PARKS HW CARLSBAD NM, 88220 Fax To:	Y	
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, -103.7	7298		

Sample ID: FS 48 A (H226045-02)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 69.9-14	0						
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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	82.5	% 46.3-17	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

		ENSOLUM HADLIE GREEN 3122 NATIONAL PARKS HW CARLSBAD NM, 88220 Fax To:	Y	
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, -103.7	7298		

Sample ID: FS 66 A (H226045-03)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 69.9-14	0						
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	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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	79.9	% 46.3-17	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500CI-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

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ARDINAI

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

City: Phone #: 432 -Project #: 03 Address: 3/22 Project Manager: Company Name: Sampler Name: Project Location: L Project Name: Relinquished By: Relinquished By: service. In no event shali Cardinal be liable for inalyses. All claims including those for negligence and any other LEASE NOTE: Liability and FOR LAB USE ONLY Sampler - UPS - Bus - Other: Delivered By: (Circle One) Lab I.D. artspace N 101 East Marland, Hobbs, NM 88240 our IO IO IUO (575) 393-2326 FAX (575) 393-2476 FS48, Hadlic Nationa -USO(nu Pa 27-884 1201 Sample I.D. 0 P dental of con HUG BY ONE Karlks Corrected Temp. °C Observed Temp. °C Fax #: Project Owner: Time: Date: State: 1/M Zip: 88220 7/100 Date: /2-22-22 tat cert GETTER Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com ages, including without limitation, business ver shall be deemed remedy for a inder by I 2.4 in C (G)RAB OR (C)OMP **Received By** Received By **# CONTAINERS** Davien sing whether GROUNDWATER unless made in writing and rece Cool Intact Sample Condition WASTEWATER MATRIX SOIL OIL contract or tort, shall be SLUDGE ons, loss of use, or loss of profits incu City: OTHER Fax #: Address: /0 Y Attn: 10b Company: P.O. #: Phone #: State: , shall be limited to the amount paid by the client for the ved by Cardinal within 30 days after completion of the applicable ACID/BASE PRESERV. pon any of the above ICE / COOL CHECKED BY: 1010 BILL TO (Initials) OTHER Si 2022-212-2203 Zip: 12-22 DATE SAMPLING red by client, its subsidianes 7970 Pcos 1010 0450 All Results are emailed. Please provide Email address: 1600 Turnaround Time: Verbal Result: Thermometer ID #113 Correction Factor -0.6°C REMARKS: TIME CHL Yes Standard Rush ON D ANALYSIS Add'l Phone #: Cool Intact Bacteria (only) Sample Condition REQUEST Corrected Temp. °C Observed Temp. ĉ

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Received by OCD: 3/10/2023 1:27:58 PM



Environment Testing

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

RT OR reen olum d St. 400 9701

Eurofins Midland 1211 W. Florida Ave Midland TX 79701

See page two for job notes and contact information.

Received by OCD: 3/10/2023 1:27:58 PM

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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

lly Taylor

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

Eurofins Midland is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

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

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QC Association Summary	18
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Sample Summary	26
Chain of Custody	27
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	Definitions/Glossary		
	Client: Ensolum Job ID: 880-22249-1 Project/Site: Young #1 Tank Battery SDG: 03C2012015 Qualifiers GC VOA Qualifier Description S1+ Surrogate recovery exceeds control limits, high biased. J Indicates the analyte was analyzed for but not detected.		2
Qualifiers	3		3
GC VOA Qualifier	Qualifier Description		4
S1+	Surrogate recovery exceeds control limits, high biased.		_
U	Indicates the analyte was analyzed for but not detected.		5
GC Semi V	OA		
Qualifier	Qualifier Description		
S1+	Surrogate recovery exceeds control limits, high biased.		

HPLC/IC	
Qualifier	Qualifier

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

Indicates the analyte was analyzed for but not detected.

Glossarv

U

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

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.

Released to Imaging: 3/20/2023 10:00:44 AM

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

Client Sample Results

Client Sample ID: FS01 Date Collected: 12/01/22 09:00 Date Received: 12/02/22 13:48 Sample Depth: 4'

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

Lab Sample ID: 880-22249-1

Matrix: Solid

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Method: SW846 8021B - Volat	-	Qualifier	RL	Unit	D	Droporod	Analyzed	Dil Fa
Analyte	<0.00200					Prepared	Analyzed	DIIFa
Benzene			0.00200	mg/Kg		12/13/22 10:59	12/14/22 11:25	
Toluene	<0.00200		0.00200	mg/Kg		12/13/22 10:59	12/14/22 11:25	
Ethylbenzene	<0.00200		0.00200	mg/Kg		12/13/22 10:59	12/14/22 11:25	
m-Xylene & p-Xylene	<0.00401		0.00401	mg/Kg		12/13/22 10:59	12/14/22 11:25	
o-Xylene	<0.00200		0.00200	mg/Kg		12/13/22 10:59	12/14/22 11:25	
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		12/13/22 10:59	12/14/22 11:25	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	107		70 - 130			12/13/22 10:59	12/14/22 11:25	
1,4-Difluorobenzene (Surr)	88		70 - 130			12/13/22 10:59	12/14/22 11:25	
Method: TAL SOP Total BTEX	- Total BTE	X Calculat	ion					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00401	U	0.00401	mg/Kg			12/14/22 14:05	
Method: SW846 8015 NM - Di	ocol Pango	Organice (
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<50.0		50.0	mg/Kg		Flepaleu	12/09/22 20:41	
	<50.0	U	50.0	ilig/Kg			12/09/22 20.41	
Method: SW846 8015B NM - E								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/07/22 15:29	12/09/22 12:17	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/07/22 15:29	12/09/22 12:17	
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/07/22 15:29	12/09/22 12:17	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	107		70 - 130			12/07/22 15:29	12/09/22 12:17	
o-Terphenyl	115		70 - 130			12/07/22 15:29	12/09/22 12:17	
Method: MCAWW 300.0 - Anio	ons, Ion Chr	omatogra	ohy - Soluble					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	27.8		4.97	mg/Kg			12/09/22 11:50	
lient Sample ID: FS02					L	ab Sample	D: 880-22	249-2
ate Collected: 12/01/22 09:05						-	Matrix	: Solid
Date Received: 12/02/22 13:48								
Sample Depth: 4'								
Method: SW846 8021B - Volat	ilo Organio	Compour						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00199		0.00199	mg/Kg			12/14/22 19:40	
Toluene	<0.00199		0.00199	mg/Kg			12/14/22 19:40	
Ethylbenzene	<0.00199		0.00199	mg/Kg			12/14/22 19:40	
m-Xylene & p-Xylene	< 0.00398		0.00398	mg/Kg			12/14/22 19:40	
o-Xylene	<0.00330		0.00199	mg/Kg			12/14/22 19:40	
,								
Xylenes, Total	<0.00398	0	0.00398	mg/Kg		12/13/22 10:59	12/14/22 19:40	

Surrogate%RecoveryQualifierLimitsPreparedAnalyzedDil Fac4-Bromofluorobenzene (Surr)11570 - 13012/13/22 10:5912/14/22 19:401

Project/Site: Young #1 Tank Battery

Limits

70 - 130

RL

Unit

Dil Fac

Dil Fac

1

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

Analyzed

Analyzed

Lab Sample ID: 880-22249-3

Matrix: Solid

12/13/22 10:59 12/14/22 19:40

Prepared

Prepared

D

Client Sample ID: FS02

1,4-Difluorobenzene (Surr)

Client: Ensolum

Surrogate

Analyte

Date Coll	ected:	12/01/22	09:05
Date Rec	eived:	12/02/22	13:48
Sample [Depth: 4	4'	

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

Method: TAL SOP Total BTEX - Total BTEX Calculation

%Recovery Qualifier

Result Qualifier

101

Lab Sample ID: 880-22249-2 Matrix: Solid

5

				•	_		,	
Total BTEX	<0.00398	U	0.00398	mg/Kg			12/15/22 11:43	1
Mathed SW94C 9045 NM Di		Ormaniaa (
Method: SW846 8015 NM - Die	eser kange	Organics (DRU) (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 - D	Diesel Range	• Organics	(DRO) (GC)					
Analyte	-	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
Oll 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 - Anio	ons. Ion Chr	omatogra	ohv - Soluble					
Analyte		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 Date Collected: 12/01/22 09:10

Date Received: 12/02/22 13:48 Sample Depth: 4'

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)			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 BT	EX - Total BTE	X Calculat	ion					
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		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9		49.9	mg/Kg			12/09/22 20:41	

Client Sample Results

RL

49.9

49.9

49.9

RL

5.01

Limits

70 - 130

70 - 130

Unit

mg/Kg

mg/Kg

mg/Kg

Unit

mg/Kg

D

D

Prepared

Prepared

Prepared

Client Sample ID: FS03 Date Collected: 12/01/22 09:10

Analyte

C10-C28)

Surrogate

o-Terphenyl

Analyte

Chloride

1-Chlorooctane

(GRO)-C6-C10

Gasoline Range Organics

Diesel Range Organics (Over

Oll Range Organics (Over C28-C36)

Client Sample ID: FS04

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Result Qualifier

<49.9 U

<49.9 U

<49.9 U

%Recovery Qualifier

Result Qualifier

99

103

696

Dil Fac

1

1

1

1

1

Dil Fac

Dil Fac

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

Lab Sample ID: 880-22249-3 Matrix: Solid

12/07/22 15:29 12/09/22 13:43

12/07/22 15:29 12/09/22 13:43

12/07/22 15:29 12/09/22 13:43

12/07/22 15:29 12/09/22 13:43

12/07/22 15:29 12/09/22 13:43

Analyzed

Analyzed

Analyzed

12/09/22 12:03

Lab Sample ID: 880-22249-4

Date Collected: 12/01/22 09:15 Date Received: 12/02/22 13:48							Matrix	c: Soli
ample Depth: 4' Method: SW846 8021B - Volat	ile Organic	Compound	ds (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200	mg/Kg		12/13/22 10:59	12/14/22 20:21	
Toluene	<0.00200	U	0.00200	mg/Kg		12/13/22 10:59	12/14/22 20:21	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/13/22 10:59	12/14/22 20:21	
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		12/13/22 10:59	12/14/22 20:21	
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/13/22 10:59	12/14/22 20:21	
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		12/13/22 10:59	12/14/22 20:21	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	115		70 - 130			12/13/22 10:59	12/14/22 20:21	
1,4-Difluorobenzene (Surr)	102		70 - 130			12/13/22 10:59	12/14/22 20:21	
				11	-	D	A	
Method: TAL SOP Total BTEX Analyte Total BTEX		Qualifier	RL 0.00399	Unit mg/Kg	D	Prepared	Analyzed 12/15/22 11:43	
Analyte Total BTEX	Result <0.00399	Qualifier U	RL 0.00399		<u>D</u>	Prepared		Dil Fa
Analyte Total BTEX Method: SW846 8015 NM - Die	Result <0.00399	Qualifier U Organics (RL 0.00399 DRO) (GC)	mg/Kg		<u>·</u>	12/15/22 11:43	
Analyte	Result <0.00399	Qualifier U Organics (Qualifier	RL 0.00399		D	Prepared Prepared		Dil Fa
Analyte Total BTEX Method: SW846 8015 NM - Die Analyte Total TPH	Result <0.00399	Qualifier U Organics (Qualifier U	RL 0.00399 DRO) (GC) RL 50.0	mg/Kg Unit		<u>·</u>	12/15/22 11:43 Analyzed	
Analyte Total BTEX Method: SW846 8015 NM - Die Analyte Total TPH Method: SW846 8015B NM - D	Result <0.00399 esel Range (Result <50.0 Diesel Range	Qualifier U Organics (Qualifier U	RL 0.00399 DRO) (GC) RL 50.0	mg/Kg Unit		<u>·</u>	12/15/22 11:43 Analyzed	Dil Fa
Analyte Total BTEX Method: SW846 8015 NM - Die Analyte Total TPH Method: SW846 8015B NM - D Analyte Gasoline Range Organics	Result <0.00399 esel Range (Result <50.0 Diesel Range	Qualifier U Organics (Qualifier U Organics Qualifier	RL 0.00399 DRO) (GC) RL 50.0 (DRO) (GC)	Unit mg/Kg	D	Prepared	12/15/22 11:43 Analyzed 12/09/22 20:41 Analyzed	Dil Fa
Analyte Total BTEX Method: SW846 8015 NM - Die Analyte Total TPH Method: SW846 8015B NM - D Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <0.00399 esel Range Result <50.0 Diesel Range Result	Qualifier U Organics (Qualifier U Organics Qualifier U	RL 0.00399 DRO) (GC) RL 50.0 (DRO) (GC) RL 50.0	Unit mg/Kg	D	Prepared	12/15/22 11:43 Analyzed 12/09/22 20:41 Analyzed	Dil Fa
Analyte Total BTEX Method: SW846 8015 NM - Die Analyte Total TPH Method: SW846 8015B NM - D Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <0.00399 esel Range Result <50.0 Diesel Range Result <50.0	Qualifier U Organics (Qualifier U Organics Qualifier U U	RL 0.00399 DRO) (GC) RL 50.0 (DRO) (GC) RL 50.0	Unit mg/Kg mg/Kg Unit mg/Kg	D	Prepared Prepared 12/07/22 15:29 12/07/22 15:29	Analyzed 12/15/22 11:43 Analyzed 12/09/22 20:41 Analyzed 12/09/22 10:41	Dil Fa
Analyte Total BTEX Method: SW846 8015 NM - Die Analyte Total TPH Method: SW846 8015B NM - D Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <0.00399	Qualifier U Organics (Qualifier U Organics Qualifier U U U	RL 0.00399 DRO) (GC) RL 50.0 (DRO) (GC) RL 50.0 50.0	Unit mg/Kg Unit mg/Kg Unit mg/Kg mg/Kg	D	Prepared Prepared 12/07/22 15:29 12/07/22 15:29	Analyzed 12/15/22 11:43 Analyzed 12/09/22 20:41 Analyzed 12/09/22 10:41 12/09/22 14:04 12/09/22 14:04	Dil Fa
Analyte Total BTEX Method: SW846 8015 NM - Die Analyte	Result <0.00399	Qualifier U Organics (Qualifier U Organics Qualifier U U U	RL 0.00399 DRO) (GC) RL 50.0 (DRO) (GC) RL 50.0 50.0 50.0 50.0 50.0	Unit mg/Kg Unit mg/Kg Unit mg/Kg mg/Kg	D	Prepared Prepared 12/07/22 15:29 12/07/22 15:29 12/07/22 15:29	Analyzed 12/15/22 11:43 Analyzed 12/09/22 20:41 Analyzed 12/09/22 14:04 12/09/22 14:04 12/09/22 14:04 12/09/22 14:04 12/09/22 14:04 12/09/22 14:04	Dil Fa Dil Fa Dil Fa

	Client	Sample Res	sults			0	2
ery							
				L	ab Sample.		249-4 :: Solid
		o <mark>hy - Soluble</mark> RL	Unit	D	Prepared	Analyzed	Dil Fac
570		4.98	mg/Kg			12/09/22 12:10	1
				L	ab Sample.		249-5 :: Solid
		ds (GC)					
		RL	Unit	D	Prepared	Analyzed	Dil Fac
							1
<0.00201	U	0.00201	mg/Kg		12/13/22 10:59	12/14/22 20:41	1
<0.00201	U	0.00201	mg/Kg		12/13/22 10:59	12/14/22 20:41	1
<0.00402	U	0.00402	mg/Kg		12/13/22 10:59	12/14/22 20:41	1
<0.00201	U	0.00201	mg/Kg		12/13/22 10:59	12/14/22 20:41	1
<0.00402	U	0.00402	mg/Kg		12/13/22 10:59	12/14/22 20:41	1
	Qualifier	Limits			Prepared	Analyzed	Dil Fac
		70 - 130			12/13/22 10:59	12/14/22 20:41	1
99		70 - 130			12/13/22 10:59	12/14/22 20:41	1
- Total BTE	X Calculat	ion					
		RL	Unit	D	Prepared	Analyzed	Dil Fac
		0.00402	mg/Kg			12/15/22 11:43	1
			Unit	D	Prepared	Analvzed	Dil Fac
		50.0	mg/Kg			12/09/22 20:41	1
	-	(DRO) (GC)	Unit	п	Propared	Analyzod	Dil Fac
Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Result <50.0	Qualifier U	RL 50.0	mg/Kg	<u>D</u>	12/07/22 15:29	12/09/22 14:26	1
Result <50.0 <50.0	Qualifier U U	RL 50.0 50.0	mg/Kg mg/Kg	D_	12/07/22 15:29 12/07/22 15:29	12/09/22 14:26 12/09/22 14:26	1 1
Result <50.0	Qualifier U U U	RL 50.0 50.0 50.0	mg/Kg	<u>D</u>	12/07/22 15:29 12/07/22 15:29 12/07/22 15:29	12/09/22 14:26 12/09/22 14:26 12/09/22 14:26	1 1 1
Result <50.0	Qualifier U U U	RL 50.0 50.0 50.0 Limits	mg/Kg mg/Kg	<u>D</u>	12/07/22 15:29 12/07/22 15:29 12/07/22 15:29 Prepared	12/09/22 14:26 12/09/22 14:26 12/09/22 14:26 Analyzed	1 1 1 Dil Fac
Result <50.0	Qualifier U U U	RL 50.0 50.0 50.0 50.0 50.0 70 - 130	mg/Kg mg/Kg	<u>D</u>	12/07/22 15:29 12/07/22 15:29 12/07/22 15:29 Prepared 12/07/22 15:29	12/09/22 14:26 12/09/22 14:26 12/09/22 14:26 Analyzed 12/09/22 14:26	1 1 1 <i>Dil Fac</i> 1
Result <50.0	Qualifier U U U	RL 50.0 50.0 50.0 Limits	mg/Kg mg/Kg	<u>D</u>	12/07/22 15:29 12/07/22 15:29 12/07/22 15:29 Prepared 12/07/22 15:29	12/09/22 14:26 12/09/22 14:26 12/09/22 14:26 Analyzed	1 1 1 Dil Fac
Result <50.0	Qualifier U U Qualifier	RL 50.0 50.0 50.0 50.0 50.0 70 - 130	mg/Kg mg/Kg	D	12/07/22 15:29 12/07/22 15:29 12/07/22 15:29 Prepared 12/07/22 15:29	12/09/22 14:26 12/09/22 14:26 12/09/22 14:26 Analyzed 12/09/22 14:26	1 1 1 <i>Dil Fac</i> 1
	ile Organic Result 570 ile Organic Result <0.00201 <0.00201 <0.00201 <0.00402 <0.00201 <0.00402 <0.00201 <0.00402 %Recovery 112 99 - Total BTE Result <0.00402 esel Range (Result	Pry Ins, Ion Chromatograg Result Qualifier 570 Ile Organic Compound Result Qualifier <0.00201	Image: Server product of the server	Result Qualifier RL Unit 570 4.98 mg/Kg Besult Qualifier RL Unit 570 4.98 mg/Kg Besult Qualifier RL Unit <0.00201	Result Qualifier RL Unit D Image: Compounds (GC) Result Qualifier RL Unit D Image: Compounds (GC) Result Qualifier RL Unit D Image: Compounds (GC) Result Qualifier Unit D C Image: Compounds (GC) Notation <0.00201	Lab Sample Ins, Ion Chromatography - Soluble Result Qualifier RL Unit D Prepared 570 4.98 mg/Kg D Prepared Lab Sample Ile Organic Compounds (GC) Result Qualifier RL Unit D Prepared <0.00201	Job ID: 880-2 SDG: 03C24 Lab Sample ID: 880-22 Matrix ms, Ion Chromatography - Soluble D Prepared Analyzed 570 4.98 mg/Kg D Prepared Analyzed 12/09/22 12:10 Lab Sample ID: 880-22 Matrix Lab Sample ID: 880-22 Matrix Ile Organic Compounds (GC) E Unit D Prepared Analyzed <0.00201 U

Client Sample Results

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

Client Sample ID: FS06 Date Collected: 12/01/22 09:25 Date Received: 12/02/22 13:48

Sample Depth: 4'

Method: SW846 8021B - Vo	latile Organic	Compoun	ds (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 BTE	X Calculat	ion					
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 - Die	sel Range C	Organics (E	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 - I	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
Oll 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 - Anior	ns, Ion Chroma						
Analyte Chloride	Result Qua	Alifier RL 4.96	Unit mg/Kg	D	Prepared	Analyzed 12/09/22 12:37	Dil Fac 1
Client Sample ID: FS83				L	ab Sampl	e ID: 880-22	249-7

Client Sample ID: FS83 Date Collected: 12/01/22 10:15 Date Received: 12/02/22 13:48 Sample Depth: 4'

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)		S1+	70 - 130			12/13/22 10:59	12/14/22 21:22	1

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Matrix: Solid

Job ID: 880-22249-1

SDG: 03C2012015

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Lab Sample ID: 880-22249-6 Matrix: Solid

Client Sample Results

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light Sample ID: ES92					1	ah Comple		240
Client Sample ID: FS83 Date Collected: 12/01/22 10:15						ab Sample	D: 880-22	
Date Received: 12/02/22 13:48							Matrix	. 301
Sample Depth: 4'								
Method: SW846 8021B - Volati	ile Organic	Compoun	ds (GC) (Contin	ued)				
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil F
1,4-Difluorobenzene (Surr)	97		70 - 130			12/13/22 10:59	12/14/22 21:22	
Method: TAL SOP Total BTEX	- Total BTE	X Calculat	ion					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil F
Total BTEX	<0.00396		0.00396	mg/Kg			12/15/22 11:43	
	0.00000	•	0.00000				,	
Method: SW846 8015 NM - Die	sel Range	Organics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil F
Total TPH	385		49.8	mg/Kg			12/09/22 20:41	
		· ·						
Method: SW846 8015B NM - D	-	-		11-:*	~	Dremeral	احد معرفة مع	Dil F
Analyte	Kesuit <49.8	Qualifier		Unit	D	Prepared 12/07/22 15:29	Analyzed	
Gasoline Range Organics GRO)-C6-C10	<49.0	0	49.0	mg/Kg		12/07/22 15:29	12/09/22 15:09	
Diesel Range Organics (Over	238		49.8	mg/Kg		12/07/22 15:29	12/09/22 15:09	
C10-C28)				0 0				
Oll Range Organics (Over	147		49.8	mg/Kg		12/07/22 15:29	12/09/22 15:09	
C28-C36)								
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil
1-Chlorooctane	104		70 - 130			12/07/22 15:29	12/09/22 15:09	
p-Terphenyl	110		70 - 130			12/07/22 15:29	12/09/22 15:09	
Mathadi MCAMM/ 200 0 Aria	na lan Chr	o moto a ro	ahu Calubla					
Method: MCAWW 300.0 - Anio Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil I
Chloride	137	Quaimer	4.99	mg/Kg		Prepareu	12/09/22 12:43	
	137		4.55	mg/rtg			12/03/22 12.45	
lient Sample ID: FS84					L	ab Sample	D: 880-22	249
ate Collected: 12/01/22 10:20						-	Matrix	: So
ate Received: 12/02/22 13:48								
ample Depth: 4'								
Nothody SW/946 9024P Volati	la Organia	Compour						
Method: SW846 8021B - Volati Analyte	-	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil
Benzene	<0.00200		0.00200	mg/Kg		12/13/22 10:59	12/14/22 21:43	
Toluene	<0.00200		0.00200	mg/Kg			12/14/22 21:43	
Ethylbenzene	<0.00200		0.00200	mg/Kg		12/13/22 10:59		
	<0.00200		0.00399	mg/Kg			12/14/22 21:43	
n-Xvlene & p-Xvlene			0.00200	mg/Kg			12/14/22 21:43	
	<0.00200	-		mg/Kg			12/14/22 21:43	
o-Xylene	<0.00200 <0.00399	U	0.00399	muntu				
o-Xylene		U	0.00399	mg/rtg				
o-Xylene Kylenes, Total Surrogate			0.00399	ing/itg		Prepared	Analyzed	Dil
m-Xylene & p-Xylene o-Xylene Xylenes, Total Surrogate 4-Bromofluorobenzene (Surr)	<0.00399			ing/ixg			Analyzed	Dil

Welliou. TAL SUP TOTAL DIEX.	IULAI DIE		lon					
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

Project/Site: Young #1 Tank Battery

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

Matrix: Solid

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Lab Sample ID: 880-22249-8

Client Sample ID: FS84

Client: Ensolum

Date Collected: 12/01/22 10:20 Date Received: 12/02/22 13:48 Sample Depth: 4'

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 - D	iesel 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
Oll 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 - Anic	ons, Ion Chr	omatogra	ohy - Soluble					
Analyte		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

Method: 8021B - Volatile Organic Compounds (GC) Matrix: Solid

_			Perc	ent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		5
880-22249-1	FS01	107	88		
880-22249-1 MS	FS01	106	96		6
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		9
880-22249-5	FS05	112	99		
880-22249-6	FS06	116	97		G
880-22249-7	FS83	134 S1+	97		2
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-Bromofluorob	enzene (Surr)				
DFBZ = 1,4-Difluorobe	enzene (Surr)				

Method: 8015B NM - Diesel Range Organics (DRO) (GC) Matrix: Solid

			Per
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(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

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

Prep Type: Total/NA

Prep Type: Total/NA

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

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 41731

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

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

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-41731/5-A Matrix: Solid Analysis Batch: 41784

	MB	MB						
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 11:03	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
	MB	МВ						
Surrogate	%Recovery	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

Analysis Batch: 41784							Prep I	Batch: 41731
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%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	

	LCS	LCS	
Surrogate	%Recovery	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

Analysis Batch: 41784							Prep E	-	
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	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

	LCSD	LCSD	
Surrogate	%Recovery	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

Analysis Batch: 41784									Prep Batch: 41731
	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%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

Eurofins Midland

Client Sample ID: FS01

Prep Type: Total/NA

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

4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr)

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

Method: 8021B - Volati

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Method: 8021B - Volat	ile Organio	c Compo	ounds (GC	;) (Conti	nued)					
Lab Sample ID: 880-22249 Matrix: Solid Analysis Batch: 41784	9-1 MS							С	lient Sample ID: FS01 Prep Type: Total/NA Prep Batch: 41731	4
	Sample	Sample	Spike	MS	MS				%Rec	5
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%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	7
	MS	MS								
Surrogate 4-Bromofluorobenzene (Surr)	%Recovery 106	Qualifier	Limits 70 - 130							8

Lab Sample ID: 880-22249-1 MSD
Matrix: Solid
Analysis Batch: 41784

Analysis Batch: 41784									Prep E	Batch: 4	41731	
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%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	ï
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	i
o-Xylene	<0.00200	U	0.0990	0.08823		mg/Kg		89	70 - 130	9	35	
	MSD	MSD										
Surrogate	%Recovery	Qualifier	Limits									

70 - 130

70 - 130

70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

99

93

Lab Sample ID: MB 880-41297/1-A **Matrix: Solid** Analysis Batch: 41416

	MB	MB						
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 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
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/07/22 15:29	12/09/22 09:49	1
	MB	MB						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	102		70 - 130
o-Terphenyl	140	S1+	70 - 130

Lab Sample ID: LCS 880-41297/2-A Matrix: Solid Analysis Batch: 41416

Analysis Batch: 41416							Prep B	atch: 41297
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	890.6		mg/Kg		89	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	865.8		mg/Kg		87	70 - 130	
C10-C28)								

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Prep Type: Total/NA

1

1

Job ID: 880-22249-1

Client Sample ID: FS01 Prep Type: Total/NA

Client Sample ID: Method Blank

12/07/22 15:29 12/09/22 09:49

12/07/22 15:29 12/09/22 09:49

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 41297

SDG: 03C2012015

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

Matrix: Solid

Surrogate 1-Chlorooctane

o-Terphenyl

Analyte

C10-C28)

Surrogate

o-Terphenyl

Analyte

C10-C28)

Surrogate

o-Terphenyl

1-Chlorooctane

1-Chlorooctane

Matrix: Solid

(GRO)-C6-C10

Matrix: Solid

(GRO)-C6-C10

Analysis Batch: 41416

Analysis Batch: 41416

Gasoline Range Organics

Diesel Range Organics (Over

Analysis Batch: 41416

Gasoline Range Organics

Diesel Range Organics (Over

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Job ID: 880-22249-1

SDG: 03C2012015

Lab Sample ID: LCS 880-41297/2-A **Client Sample ID: Lab Control Sample** Prep Type: Total/NA Prep Batch: 41297 LCS LCS %Recovery Qualifier Limits 92 70 - 130 95 70 - 130 **Client Sample ID: Lab Control Sample Dup** Lab Sample ID: LCSD 880-41297/3-A Prep Type: Total/NA Prep Batch: 41297 LCSD LCSD %Rec RPD Spike Added **Result Qualifier** Unit D %Rec Limits RPD Limit 1000 837.9 mg/Kg 84 70 - 130 6 20 1000 863.4 mg/Kg 86 70 - 130 0 20 LCSD LCSD %Recovery Qualifier Limits 88 70 - 130 70 - 130 91 Lab Sample ID: 880-22249-1 MS **Client Sample ID: FS01 Prep Type: Total/NA** Prep Batch: 41297 Sample Sample Spike MS MS %Rec **Result Qualifier** Added **Result Qualifier** Limits Unit D %Rec <50.0 U 999 1020 mg/Kg 100 70 - 130 999 <50.0 U 738.0 mg/Kg 74 70 - 130 MS MS %Recovery Qualifier Limits 70 - 130 92 89 70 - 130

Lab Sample ID: 880-22249-1 MSD Matrix: Solid Analysis Ratch: 41416

Analysis Batch: 41416									Prep Batch		41297
-	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	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
	MED	MOD									

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	94		70 - 130
o-Terphenyl	89		70 - 130

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Client Sample ID: FS01

Prep Type: Total/NA

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

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

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-4099 Matrix: Solid Analysis Batch: 41276)4/1-A							C	lient Sam	ple ID: M Prep Ty		
-	MB	MB										
Analyte	Result	Qualifier		RL		Unit		D	Prepared	Analyz	zed	Dil Fac
Chloride	<5.00	U		5.00		mg/K	g			12/09/22	11:10	1
Lab Sample ID: LCS 880-409 Matrix: Solid Analysis Batch: 41276	94/2-A						Cli	ent S	ample ID	: Lab Cor Prep Ty		
			Spike		LCS	LCS				%Rec		
Analyte			Added		Result	Qualifier	Unit	I	D %Rec	Limits		
Chloride			250		262.5		mg/Kg		105	90 - 110		
Lab Sample ID: LCSD 880-40	994/3-A					C	Client S	ampl	le ID: Lab	Control	Sample	e Dup
Matrix: Solid										Prep T	ype: So	oluble
Analysis Batch: 41276												
			Spike		LCSD	LCSD				%Rec		RPD
Analyte			Added		Result	Qualifier	Unit	I	D %Rec	Limits	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	Ргер Туре	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	

QC Association Summary

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

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	Ргер Туре	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	Ргер Туре	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	

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

QC Association Summary

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

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

Job ID: 880-22249-1

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SDG: 03C2012015

Project/Site: Young #1 Tank Battery

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

Lab Sample ID: 880-22249-1

Lab Sample ID: 880-22249-2

Client Sample ID: FS01 Date Collected: 12/01/22 09:00 Date Received: 12/02/22 13:48

Client: Ensolum

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	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	СН	EET MID	12/09/22 11:50

Client Sample ID: FS02 Date Collected: 12/01/22 09:05

Date Received: 12/02/22 13:48

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	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	СН	EET MID	12/09/22 11:57

Client Sample ID: FS03 Date Collected: 12/01/22 09:10 Date Received: 12/02/22 13:48

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	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 Date Collected: 12/01/22 09:15 Date Received: 12/02/22 13:48

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	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

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Matrix: Solid

Matrix: Solid

Matrix: Solid

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Lab Sample ID: 880-22249-3 Matrix: Solid

Lab Sample ID: 880-22249-4

Project/Site: Young #1 Tank Battery

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

Matrix: Solid

Matrix: Solid

Matrix: Solid

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Lab Sample ID: 880-22249-4

Lab Sample ID: 880-22249-5

Lab Sample ID: 880-22249-6

Lab Sample ID: 880-22249-7

Client Sample ID: FS04 Date Collected: 12/01/22 09:15 Date Received: 12/02/22 13:48

Client: Ensolum

	Batch	Batch		Dilution	Batch			Prepared
Prep Туре	Туре	Method	Run	Factor	Number	Analyst	Lab	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
lotal/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	СН	EET MID	12/09/22 12:10

Client Sample ID: FS05 Date Collected: 12/01/22 09:20 Date Received: 12/02/22 13:48

	Batch	Batch		Dilution	Batch			Prepared
Prep Туре	Туре	Method	Run	Factor	Number	Analyst	Lab	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
fotal/NA	Analysis	8015 NM		1	41505	AJ	EET MID	12/09/22 20:41
lotal/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	СН	EET MID	12/09/22 12:30

Client Sample ID: FS06

Date Collected: 12/01/22 09:25 Date Received: 12/02/22 13:48

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	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	СН	EET MID	12/09/22 12:37

Client Sample ID: FS83 Date Collected: 12/01/22 10:15 Date Received: 12/02/22 13:48

_	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	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

Matrix: Solid

Lab Chronicle

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

Matrix: Solid

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|1 |2 |3

Client Sample ID: FS83 Date Collected: 12/01/22 10:15 Date Received: 12/02/22 13:48

Project/Site: Young #1 Tank Battery

Client: Ensolum

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Soluble	Leach	DI Leach			40994	SMC	EET MID	12/05/22 09:48
Soluble	Analysis	300.0		1	41276	СН	EET MID	12/09/22 12:43

Client Sample ID: FS84 Date Collected: 12/01/22 10:20 Date Received: 12/02/22 13:48

Lab Sample ID: 880-22249-8 Matrix: Solid

Lab Sample ID: 880-22249-7

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	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	СН	EET MID	12/09/22 12:50

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Midland

Accreditation/Certification Summary

Page 136 of 204

Project/Site: Young #1 Ta	-		SDG: 03C2012015	
aboratory: Eurofir	ns Midland held by this laboratory are listed. Not all ac	creditations/certifications are applicable to	o this report.	
Authority	Program	Identification Number	Expiration Date	
N/A	N/A	None on record.		5
				6
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				Q
				1
				1

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

Sample Summary

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'

ID:	880-22249-1	
G:	03C2012015	

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	A JUST	čđ		EL I	Paso TX obs NM	EL Paso TX (915) 565-3443 Lubbock TX (806) 794-1296 Hobbs NM (575) 392-7550 Carlsbad NM (575) 988-3199	43 Lubbock 0 Carlsbad	、TX (806) 7 NM (575) 9	94-1296 88-3199						u Alt		
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				DHI 10' (II GITTERITI)	000	BOD Hall					ara datar wasta ta da da asi	W	ORK UR	Work Urder Comments	ents	تقريب ومعموده والألبية ومك	والمعتمد والمتحد والمتحد والمحتمد والمحتمد والمحتمد والمحتمد والمحتمد والمحتمد والمحتمد والمحتمد والمحتمد والم
Company Name.	Ensolum, LLC			Company Name:	ne:	BTA Oil				Pro Pro	ogram: US	Program: UST/PST PRP Brownfields RRC Superfund	PRP B	rownfields		Super	fund 🗌
Address:	3122 Nat'l Parks Hwy	Ŋ	4	Address		104 S Pecos)s St			Sta	State of Project:	ect:]
City, State ZIP-	Carlsbad NM 88220	Ö	0	City, State ZIP	•	Midland, TX 79701	X 79701			Re	porting Le	Reporting Level II CLevel III PST/UST TRRP Level IV		PST/UST			
Phone;	432-557-8895		Email	hgreen@ensolum.com	;olum.c	om					liverables	Deliverables EDD	A	ADaPT	Other		
Project Name.	Young #1 Tank Battery	< Battery	Tum /	Turn Around					ANALYSIS	SIS REQUEST	TS	and the second	a description		reserva	Preservative Codes	8
Project Number	03C2012015		Routine	🗌 Rush	Pres.									None NO	N N		
Project Location	32 767224, -103 729807		Due Date														
Sampler's Name	Julianna Falcomata		FAT starts the	day received b	<												
PO#			the lab if recei	the lab if received by 4 30pm													
SAMPLE RECEIPT	PT Temp Blank:	Yes No	Wet Ice	(Yes)No	nete	0)											
Samples Received Intact:	ntact: Yes No	Thermometer ID:		T-NM-007		300			.			8	80-2224	880-22249 Chain of	Custody		
Cooler Custody Seals.	s. Yes No N/A					PA							-	INd202	1 Na ₂ \circ_2 \cup_3 NaSU ₃	\mathcal{J}_{3}	
Sample Custody Seals.	Is. Yes No N/A	A Temperature Reading	Reading	2-2	L	S (E								Zn Ac	Zn Acetate+NaOH Zn	OH Zn	
Total Containers		Corrected Temperature	nperature		<u>}</u>		8021							NaOH	++Ascorbi	NaOH+Ascorbic Acid SAPC	PC
Sample Identification	tification Matrix	Date Sampled	Time Sampled	Depth Comp	b/ #of p Cont	CHLOF	втех (Sample	Sample Comments	8
550	S	12-1-72	1900	4 0		VV	, W								and the second secon		
ESOZ	S	12-(-22	Daux	4 0			V										
B CX	10	12-1-22 1	10/0	4 IC		$\frac{1}{1}$	- W								nAPP2:	nAPP2231476257	7
1304	5	12-1-22	15160	4 C.	~~	VV	1										
KK RS	5	12-(12)	0920	4 10			1 1/										
ISO6	5	12-1-22.1	1925			VV	W										
	5	12-1-22	ID IS			TN N	141						-				
TESOS -	G	112-1-22	0201	9	-		<				- 						
Total 200.7 / 6010	10 200.8 / 6020:		8RCRA 13PPM	Texas	11 A	Sb As Ba	Be B Cd	Ca Cr	Co Cu Fe	e Pb Mg	Mn Mo	NI K Se	Ag SiO ₂	Na Sr	TI Sn U	V Zn	
Circle Method(s) ar	Circle Method(s) and Metal(s) to be analyzed	ilyzed	TCLP / SPLP 6010	² LP 6010 8	8RCRA	Sb As Ba Be Cd		Cr Co Cu Pb	11	Mn Mo Ni Se Ag TI U	Se Ag Ti	C	Hg 10	Hg 1631 / 245 1 / 7470	1 / 7470	17471	
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 service.	ocument and relinquishme will be liable only for the	ent of samples consti cost of samples and	itutes a valid pu shall not assur	urchase order fro me any responsi	om client ibility for	company to Eu any losses or e	urofins Xenco Expenses incu	, its affiliates urred by the c	and subconte lient if such lo	ractors. It as osses are du	e to circums	contractors. It assigns standard terms and conditions uch losses are due to circumstances beyond the contro	d condition the cont	rol			
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eurofins -

Chain of Custody

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

List Source: Eurofins Midland

Login Sample Receipt Checklist

Client: Ensolum

<6mm (1/4").

Eurofins Midland

Login Number: 22249 List Number: 1 Creator: Kramer, Jessica

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	N/A	



Environment Testing

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

ËOL

Eurofins Midland 1211 W. Florida Ave Midland TX 79701



Received by OCD: 3/10/2023 1:27:58 PM

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

RAMER

Generated 12/16/2022 1:23:11 PM

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

Eurofins Midland is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

Laboratory Job ID: 880-22250-1 SDG: 03C2012015

Cover Page	1
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QC Sample Results	11
QC Association Summary	14
Lab Chronicle	16
Certification Summary	18
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Sample Summary	20
Chain of Custody	21
Receipt Checklists	22

DLC

EDL

LOD

LOQ MCL

MDA MDC

MDL

MQL NC

ND

NEG

POS

PQL PRES

QC

RL RPD

TEF

TEQ

TNTC

RER

ML MPN Decision Level Concentration (Radiochemistry)

EPA recommended "Maximum Contaminant Level" Minimum Detectable Activity (Radiochemistry)

Minimum Detectable Concentration (Radiochemistry)

Not Detected at the reporting limit (or MDL or EDL if shown)

Estimated Detection Limit (Dioxin)

Limit of Detection (DoD/DOE) Limit of Quantitation (DoD/DOE)

Method Detection Limit Minimum Level (Dioxin)

Most Probable Number Method Quantitation Limit

Not Calculated

Negative / Absent

Positive / Present Practical Quantitation Limit

Presumptive

Quality Control

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

	Definitions/Glossary		
Client: Ensolu		80-22250-1	
Project/Site: Y	Young #1 Tank Battery SDG: (3C2012015	
Qualifiers			3
GC VOA			
Qualifier	Qualifier Description		
S1+	Surrogate recovery exceeds control limits, high biased.		
U	Indicates the analyte was analyzed for but not detected.		5
GC Semi VOA	A Contraction of the second		
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		8
U	Indicates the analyte was analyzed for but not detected.		
Glossary			9
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)		12
Dil Fac	Dilution Factor		13
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		
4

5

Job ID: 880-22250-1 SDG: 03C2012015

Job ID: 880-22250-1

Client: Ensolum

Laboratory: Eurofins Midland

Project/Site: Young #1 Tank Battery

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.

Job ID: 880-22250-1 SDG: 03C2012015

Lab Sample ID: 880-22250-1

12/07/22 12:02 12/09/22 18:40

Lab Sample ID: 880-22250-2

Client Sample ID: SW08

Project/Site: Young #1 Tank Battery

Date Collected: 12/02/22 11:20 Date Received: 12/02/22 13:48

Sample Depth: 0 - 4'

Client: Ensolum

140 S1+

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	
Toluene	<0.00199	U	0.00199	mg/Kg		12/16/22 09:12	12/16/22 11:36	
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/16/22 09:12	12/16/22 11:36	
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		12/16/22 09:12	12/16/22 11:36	
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/16/22 09:12	12/16/22 11:36	
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/16/22 09:12	12/16/22 11:36	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	86		70 - 130			12/16/22 09:12	12/16/22 11:36	
1,4-Difluorobenzene (Surr)	88		70 - 130			12/16/22 09:12	12/16/22 11:36	-
- Method: SW846 8015 NM - Diese	I Range Organ	ics (DRO) (GC)					
Method: SW846 8015 NM - Diese Analyte		i <mark>cs (DRO) (</mark> Qualifier	GC) RL	Unit	D	Prepared	Analyzed	Dil Fac
		Qualifier	· · · · · · · · · · · · · · · · · · ·	Unit mg/Kg	D	Prepared	Analyzed 12/12/22 10:49	Dil Fa
Analyte Total TPH Method: SW846 8015B NM - Dies	Result <50.0	Qualifier	RL 50.0	mg/Kg		<u>.</u>	12/12/22 10:49	,
Analyte Total TPH Method: SW846 8015B NM - Dies	Result <50.0	Qualifier U	RL 50.0		D	Prepared		Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	Result <50.0	Qualifier U anics (DRO) Qualifier	RL 50.0	mg/Kg		<u>.</u>	12/12/22 10:49	,
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.0 sel Range Orga Result	Qualifier U anics (DRO) Qualifier U	(GC) RL	mg/Kg Unit		Prepared	12/12/22 10:49 Analyzed	,
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	sel Range Orga <u>Result</u> <u>Result</u> <50.0	Qualifier U Qualifier Qualifier U U	RL 50.0 (GC) RL 50.0	mg/Kg Unit mg/Kg		Prepared 12/07/22 12:02	Analyzed 12/09/22 18:40	,
Analyte	Result <50.0	Qualifier U Qualifier U Qualifier U U U	RL 50.0 (GC) RL 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 12/07/22 12:02 12/07/22 12:02	Analyzed 12/09/22 18:40 12/09/22 18:40	,

ſ	_ Method: MCAWW 300.0 - Anions, I	on Chromato	graphy - So	bluble					
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	20.3		4.95	mg/Kg			12/09/22 12:57	1

70 - 130

Client Sample ID: SW09 Date Collected: 12/02/22 11:25 Date Received: 12/02/22 13:48

Sample Depth: 0 - 4'

o-Terphenyl

Method: SW846 8021B - Volat	ile Organic Comp	ounds (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

Eurofins Midland

Matrix: Solid

5

Released to Imaging: 3/20/2023 10:00:44 AM

1

Matrix: Solid

Matrix: Solid

5

Client Sample Results

Job ID: 880-22250-1 SDG: 03C2012015

Lab Sample ID: 880-22250-2

Client Sample ID: SW09

Project/Site: Young #1 Tank Battery

Date Collected: 12/02/22 11:25

Date Received: 12/02/22 13:48 Sample Depth: 0 - 4'

Client: Ensolum

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 - T	otal BTEX Calo	ulation						
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 - Diese	l Range Organ	ics (DRO) (GC)					
Analyte		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 - Dies	el Range Orga	nics (DRO)	(GC)					
Analyte		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
Oll 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			70 - 130			12/07/22 12:02	12/09/22 19:01	1
p-Terphenyl	130		70 - 130			12/07/22 12:02	12/09/22 19:01	1
Method: MCAWW 300.0 - Anions	, Ion Chromato	ography - So	oluble					
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 Date Collected: 12/02/22 11:30

Date Received: 12/02/22 13:48 Sample Depth: 0 - 4'

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 Cald	ulation						
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 - Die	esel Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Eurofins Midland

Matrix: Solid

Job ID: 880-22250-1 SDG: 03C2012015

Matrix: Solid

Lab Sample ID: 880-22250-3

Client Sample ID: SW01

Project/Site: Young #1 Tank Battery

Date Collected: 12/02/22 11:30 Date Received: 12/02/22 13:48

Sample Depth: 0 - 4'

Client: Ensolum

Method: SW846 8015B NM - Diesel R	Range Organics (DRO) (GC)	
Analyte	Result Qualifier	RL

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
OII 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

Date Collected: 12/02/22 11:35 Date Received: 12/02/22 13:48

Sample Depth: 0 - 4'

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)			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
		culation Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	Result	Qualifier			D	Prepared		Dil Fac
Method: TAL SOP Total BTEX - Analyte Total BTEX		Qualifier	RL 0.00403	Unit mg/Kg	<u>D</u>	Prepared	Analyzed	Dil Fac
Analyte Total BTEX Method: SW846 8015 NM - Diese	el Range Organ	Qualifier	0.00403	mg/Kg		<u>.</u>	12/16/22 13:48	1
Analyte Total BTEX Method: SW846 8015 NM - Diese Analyte	el Range Organ Result	Qualifier U ics (DRO) (Qualifier	0.00403 GC) RL	mg/Kg Unit	D	Prepared Prepared	12/16/22 13:48 Analyzed	1
Analyte Total BTEX Method: SW846 8015 NM - Diese Analyte	el Range Organ	Qualifier U ics (DRO) (Qualifier	0.00403	mg/Kg		<u>.</u>	12/16/22 13:48	1
Analyte Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH	Result <0.00403	Qualifier U ics (DRO) (0 Qualifier U	0.00403 GC) RL 50.0	mg/Kg Unit		<u>.</u>	12/16/22 13:48 Analyzed	Dil Fac 1 Dil Fac 1
Analyte Total BTEX Method: SW846 8015 NM - Dieso Analyte Total TPH Method: SW846 8015B NM - Die	el Range Organ Result Solution Result Solution Result Solution Result	Qualifier U ics (DRO) (0 Qualifier U	0.00403 GC) RL 50.0	mg/Kg Unit		<u>.</u>	12/16/22 13:48 Analyzed	1 Dil Fac
Analyte Total BTEX Method: SW846 8015 NM - Dies Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics	el Range Organ Result Solution Result Solution Result Solution Result	Qualifier U ics (DRO) (0 Qualifier U nics (DRO) Qualifier	0.00403 GC) RL 50.0 (GC)	mg/Kg	D	Prepared	12/16/22 13:48 Analyzed 12/12/22 10:49	1 Dil Fac
Analyte	el Range Organ Result <0.00403 el Range Organ 	Qualifier U ics (DRO) (0 Qualifier U nics (DRO) Qualifier U	0.00403 GC) RL 50.0 (GC) RL	mg/Kg Unit mg/Kg Unit	D	Prepared	12/16/22 13:48 Analyzed 12/12/22 10:49 Analyzed	1

Dil Fac %Recovery Qualifier Limits Prepared Analyzed Surrogate 70 - 130 12/07/22 12:02 1-Chlorooctane 137 S1+ 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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12/16/2022

		Clien	nt Sample Re	sults				
Client: Ensolum			-				Job ID: 880-	22250-1
Project/Site: Young #1 Tank Battery							SDG: 03C2	201201
Client Sample ID: SW02						Lab Sam	ple ID: 880-2	2250-4
Date Collected: 12/02/22 11:35							•	x: Solic
Date Received: 12/02/22 13:48								
Sample Depth: 0 - 4'								
_ Method: MCAWW 300.0 - Anions, I	on Chromate	ography - S	oluble					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	28.4		5.00	mg/Kg			12/09/22 13:30	
Client Sample ID: SW10						l ah Sam	ple ID: 880-2	2250-6
Date Collected: 12/02/22 11:40						Lab Gam	-	x: Solid
Date Received: 12/02/22 11:40							Wath	. Solid
Sample Depth: 0 - 4'								
			`					
Method: SW846 8021B - Volatile Or Analyte	• •	Qualifier) RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00199	-	0.00199	mg/Kg		12/16/22 09:12	12/16/22 12:58	1
Toluene	< 0.00199		0.00199	mg/Kg		12/16/22 09:12	12/16/22 12:58	
Ethylbenzene	<0.00199		0.00199	mg/Kg		12/16/22 09:12	12/16/22 12:58	
m-Xylene & p-Xylene	<0.00398		0.00398	mg/Kg		12/16/22 09:12	12/16/22 12:58	
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/16/22 09:12	12/16/22 12:58	
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 - Tot	al BTEX Cal	culation						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398		0.00398	mg/Kg			12/16/22 13:48	1
Ξ								
Method: SW846 8015 NM - Diesel F Analyte		ics (DRO) (Qualifier	GC) RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9		49.9	mg/Kg			12/12/22 10:49	1
	1010	C	1010				,,	
Method: SW846 8015B NM - Diesel								
Analyte		Qualifier	RL	Unit	<u>D</u>	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	<49.9	U	49.9	mg/Kg		12/07/22 12:02	12/09/22 20:06	1
C10-C28)								
Oll 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	
o-Terphenyl	140	S1+	70 - 130			12/07/22 12:02	12/09/22 20:06	1
_ Method: MCAWW 300.0 - Anions, I	on Chromato	ography - S	oluble					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorido	15.0		5.00	ma/Ka			12/00/22 15:20	1

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12/09/22 15:20

Chloride

5.00

mg/Kg

15.9

1

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

Method: 8021B - Volatile Organic Compounds (GC) Matrix: Solid

		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(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

		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(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

5

6

13

Job ID: 880-22250-1 SDG: 03C2012015

Prep Type: Total/NA

Prep Type: Total/NA

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Client: Ensolum

QC Sample Results

Job ID: 880-22250-1 SDG: 03C2012015

Project/Site: Young #1 Tank Battery Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-41760/5-A										Client Sa	mple ID: Metho	d Blank
Matrix: Solid											Prep Type:	Total/N/
Analysis Batch: 41992											Prep Batc	h: 4176 (
	Ν	IB MB										
Analyte	Res	ult Qual	lifier	RL	-	Unit		D	Pi	repared	Analyzed	Dil Fa
Benzene	< 0.002	00 U		0.00200)	mg/K	g		12/13	3/22 14:20	12/16/22 10:54	
Toluene	<0.002	00 U		0.00200)	mg/K	g		12/13	3/22 14:20	12/16/22 10:54	
Ethylbenzene	<0.002	00 U		0.00200)	mg/K	g		12/13	3/22 14:20	12/16/22 10:54	
m-Xylene & p-Xylene	<0.004	00 U 00		0.00400)	mg/K	g		12/1	3/22 14:20	12/16/22 10:54	
o-Xylene	<0.002	00 U		0.00200)	mg/K	g		12/13	3/22 14:20	12/16/22 10:54	
Xylenes, Total	<0.004	00 U		0.00400)	mg/K	g		12/13	3/22 14:20	12/16/22 10:54	
	л	1B MB										
Surrogate	%Recove	ry Qual	lifier	Limits					Pi	repared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)		8 9		70 _ 130	-				12/1	3/22 14:20	12/16/22 10:54	
		99		70 - 130				С		3/22 14:20 Sample I	12/16/22 10:54 D: Lab Control	
Lab Sample ID: LCS 880-41760/1-/ Matrix: Solid		99		70 - 130				С			D: Lab Control Prep Type:	Sample Total/N/
Lab Sample ID: LCS 880-41760/1-/ Matrix: Solid		99		70 - 130 Spike	LCS	LCS		С			D: Lab Control	Sample Total/NA
Lab Sample ID: LCS 880-41760/1-/ Matrix: Solid Analysis Batch: 41992		99				LCS Qualifier	Unit	С			D: Lab Control Prep Type: ⁻ Prep Batcl	Sample Total/NA
Lab Sample ID: LCS 880-41760/1-/ Matrix: Solid Analysis Batch: 41992		99		Spike			- Unit mg/Kg	С	lient	Sample I	D: Lab Control Prep Type: ' Prep Batch %Rec	Sample Total/NA
Lab Sample ID: LCS 880-41760/1-/ Matrix: Solid Analysis Batch: 41992 Analyte		99		Spike Added	Result			C	lient	Sample I	D: Lab Control Prep Type: Prep Batcl %Rec Limits	Sample Total/NA
Lab Sample ID: LCS 880-41760/1-4 Matrix: Solid Analysis Batch: 41992 Analyte Benzene Toluene		99		Spike Added 0.100	Result 0.1028		mg/Kg	C	lient	Sample I %Rec 103	D: Lab Control Prep Type: Prep Batcl %Rec Limits 70 - 130	Sample Total/NA
Toluene Ethylbenzene		99		Spike Added 0.100 0.100	Result 0.1028 0.09358		mg/Kg mg/Kg	C	lient	Sample I <u>%Rec</u> 103 94	D: Lab Control Prep Type: " Prep Batcl %Rec Limits 70 - 130 70 - 130	Sample Total/NA
Lab Sample ID: LCS 880-41760/1-/ Matrix: Solid Analysis Batch: 41992 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene		99		Spike Added 0.100 0.100 0.100	Result 0.1028 0.09358 0.09654		mg/Kg mg/Kg mg/Kg	C	lient	Sample I %Rec 103 94 97	D: Lab Control Prep Type: " Prep Batcl %Rec Limits 70 - 130 70 - 130 70 - 130	Sample Total/NA
Lab Sample ID: LCS 880-41760/1-/ Matrix: Solid Analysis Batch: 41992 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene				Spike Added 0.100 0.100 0.100 0.200	Result 0.1028 0.09358 0.09654 0.2017		mg/Kg mg/Kg mg/Kg mg/Kg	C	lient	Sample I <u>%Rec</u> 103 94 97 101	D: Lab Control Prep Type: " Prep Batcl %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130	Sample Total/NA
Lab Sample ID: LCS 880-41760/1-7 Matrix: Solid Analysis Batch: 41992 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene	A	cs		Spike Added 0.100 0.100 0.100 0.200	Result 0.1028 0.09358 0.09654 0.2017		mg/Kg mg/Kg mg/Kg mg/Kg	C	lient	Sample I <u>%Rec</u> 103 94 97 101	D: Lab Control Prep Type: " Prep Batcl %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130	Sample Total/NA
Lab Sample ID: LCS 880-41760/1-7 Matrix: Solid Analysis Batch: 41992 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene	A 	cs		Spike Added 0.100 0.100 0.100 0.200 0.100	Result 0.1028 0.09358 0.09654 0.2017		mg/Kg mg/Kg mg/Kg mg/Kg	C	lient	Sample I <u>%Rec</u> 103 94 97 101	D: Lab Control Prep Type: " Prep Batcl %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130	Total/NA

Lab Sample ID: LCSD 880-41760/2-A

Matrix: Solid

Analysis Batch: 41992								Batch:	41760
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	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

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130
1,4-Difluorobenzene (Surr)	126		70 - 130

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Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

QC Sample Results

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

Chloride

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

	/1 -A										mple ID: M Prep Ty		
Matrix: Solid												-	
Analysis Batch: 41411		мв	мв								Prep E	Satch.	4127
Analyte	R		Qualifier	RL		Unit		D	P	repared	Analyze	d	Dil Fa
Gasoline Range Organics		50.0				0 mg/K	a	<u> </u>		7/22 12:02	12/09/22 09		Dirit
GRO)-C6-C10		00.0	0	00.0		iiig/ix	9		12/0	1122 12.02	12/03/22 00		
Diesel Range Organics (Over	<	50.0	U	50.0		mg/K	g		12/0	7/22 12:02	12/09/22 09	9:13	
C10-C28)													
Oll Range Organics (Over C28-C36)	<	50.0	U	50.0		mg/K	g		12/0	7/22 12:02	12/09/22 09	9:13	
		ΜВ	МВ										
Surrogate	%Reco		Qualifier	Limits					P	repared	Analyze	d	Dil Fa
I-Chlorooctane		106	Quanner	70 - 130				-		7/22 12:02	12/09/22 09		Dirit
p-Terphenyl			S1+	70 - 130						7/22 12:02	12/09/22 09		
, loiphony.		144	01.	70-700					12/0	<i>1122 12.02</i>	12/03/22 00		
ab Sample ID: LCS 880-41278	8/ 2-A							CI	lient	Sample	ID: Lab Cor	ntrol S	Sampl
Matrix: Solid											Prep Ty		
Analysis Batch: 41411											Prep E	-	
				Spike	LCS	LCS					%Rec		
Analyte				Added	Result	Qualifier	Unit		D	%Rec	Limits		
Gasoline Range Organics				1000	987.9		mg/Kg		_	99	70 - 130		
GRO)-C6-C10													
Diesel Range Organics (Over				1000	1009		mg/Kg			101	70 - 130		
C10-C28)													
	LCS	LCS											
	%Recovery			Limits									
surroyate													
-	119			70 - 130									
-Chlorooctane													
I-Chlorooctane	119			70 - 130									
l-Chlorooctane -Terphenyl	119 137			70 - 130			Cli	ent	Sam	ple ID: L	ab Control	Samp	le Du
I-Chlorooctane D-Terphenyl Lab Sample ID: LCSD 880-412	119 137			70 - 130			Cli	ent	Sam	iple ID: L	ab Control Prep Ty	-	
I-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-412 Matrix: Solid	119 137			70 - 130			Cli	ent	Sam	ple ID: L		pe: To	otal/N
I-Chlorooctane D-Terphenyl Lab Sample ID: LCSD 880-412 Matrix: Solid	119 137			70 - 130	LCSD	LCSD	Cli	ent	Sam	ple ID: L	Prep Ty	pe: To	otal/N : 4127
I-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880-412 Matrix: Solid Analysis Batch: 41411	119 137			70 - 130 70 - 130		LCSD Qualifier	Cli	ent	Sam D	ple ID: La	Prep Ty Prep E	pe: To	otal/N : 4127 RP
1-Chlorooctane p-Terphenyl Lab Sample ID: LCSD 880-412 Matrix: Solid Analysis Batch: 41411 Analyte	119 137			70 - 130 70 - 130 Spike				ent		-	Prep Ty Prep E %Rec	pe: To Batch:	otal/N 4127 RP Lim
Surrogate 1-Chlorooctane p-Terphenyl Lab Sample ID: LCSD 880-412 Matrix: Solid Analysis Batch: 41411 Analyte Gasoline Range Organics (GRO)-C6-C10	119 137			70 - 130 70 - 130 Spike Added 1000	Result 872.7		- <mark>Unit</mark> mg/Kg	ent		%Rec	Prep Ty Prep E %Rec Limits 70 - 130	RPD 12	2 4127 RP Lim 2
I-Chlorooctane p-Terphenyl Lab Sample ID: LCSD 880-412 Matrix: Solid Analysis Batch: 41411 Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over	119 137			70 - 130 70 - 130 Spike Added	Result		Unit	ent		%Rec	Prep Ty Prep E %Rec Limits	pe: To Batch: RPD	otal/N
I-Chlorooctane p-Terphenyl Lab Sample ID: LCSD 880-412 Matrix: Solid Analysis Batch: 41411 Analyte Basoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over	119 137			70 - 130 70 - 130 Spike Added 1000	Result 872.7		- <mark>Unit</mark> mg/Kg	ent		%Rec	Prep Ty Prep E %Rec Limits 70 - 130	RPD 12	2 4127 RP Lim 2
I-Chlorooctane p-Terphenyl Lab Sample ID: LCSD 880-412 Matrix: Solid Analysis Batch: 41411 Analyte Basoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over	119 137	S1+		70 - 130 70 - 130 Spike Added 1000	Result 872.7		- <mark>Unit</mark> mg/Kg	ent :		%Rec	Prep Ty Prep E %Rec Limits 70 - 130	RPD 12	otal/N 4127 RP Lim
I-Chlorooctane p-Terphenyl Lab Sample ID: LCSD 880-412 Matrix: Solid Analysis Batch: 41411 Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	119 137 78/3-A	S1+		70 - 130 70 - 130 Spike Added 1000	Result 872.7		- <mark>Unit</mark> mg/Kg	ent :		%Rec	Prep Ty Prep E %Rec Limits 70 - 130	RPD 12	2 4127 RP Lim 2
A-Chlorooctane Terphenyl Lab Sample ID: LCSD 880-412 Matrix: Solid Analysis Batch: 41411 Analyte Basoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate	119 137 78/3-A	S1+		70 - 130 70 - 130 Spike Added 1000	Result 872.7		- <mark>Unit</mark> mg/Kg	ent :		%Rec	Prep Ty Prep E %Rec Limits 70 - 130	RPD 12	2 4127 RP Lim 2
-Chlorooctane -Terphenyl Lab Sample ID: LCSD 880-412 Matrix: Solid Analysis Batch: 41411 Malysis Batch: 4	119 137 78/3-A <i>LCSD</i> %Recovery 128	S1+		70 - 130 70 - 130 Spike Added 1000 1000	Result 872.7		- <mark>Unit</mark> mg/Kg	ient :		%Rec	Prep Ty Prep E %Rec Limits 70 - 130	RPD 12	otal/N 4127 RP Lim
I-Chlorooctane D-Terphenyl Lab Sample ID: LCSD 880-412 Matrix: Solid Analysis Batch: 41411 Sasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate I-Chlorooctane D-Terphenyl	119 137 78/3-A 	S1+ LCSI Qual S1+	D lifier	70 - 130 70 - 130 Spike Added 1000 1000 Limits 70 - 130	Result 872.7		- <mark>Unit</mark> mg/Kg	ent :		%Rec	Prep Ty Prep E %Rec Limits 70 - 130	RPD 12	2 4127 RP Lim 2
-Chlorooctane -Terphenyl Lab Sample ID: LCSD 880-412 Matrix: Solid Analysis Batch: 41411 Malyte Basoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate -Chlorooctane -Terphenyl ethod: 300.0 - Anions, Ion	119 137 78/3-A <u><i>LCSD</i></u> <u>%Recovery</u> 128 133 n Chromate	S1+ LCSI Qual S1+	D lifier	70 - 130 70 - 130 Spike Added 1000 1000 Limits 70 - 130	Result 872.7		- <mark>Unit</mark> mg/Kg	ent :	<u>D</u>	%Rec 87 90	Prep Ty %Rec Limits 70 - 130 70 - 130	PPE: To Batch: RPD 12 12	20141/N 4127 RF Lin
1-Chlorooctane p-Terphenyl Lab Sample ID: LCSD 880-412 Matrix: Solid Analysis Batch: 41411 Analyte Gasoline Range Organics	119 137 78/3-A <u><i>LCSD</i></u> <u>%Recovery</u> 128 133 n Chromate	S1+ LCSI Qual S1+	D lifier	70 - 130 70 - 130 Spike Added 1000 1000 Limits 70 - 130	Result 872.7		- <mark>Unit</mark> mg/Kg	ent :	<u>D</u>	%Rec 87 90	Prep Ty Prep E %Rec Limits 70 - 130 70 - 130	Pe: To Batch: RPD 12 12 12	t al/N 4127 RP Lim 2 2
I-Chlorooctane p-Terphenyl Lab Sample ID: LCSD 880-412 Matrix: Solid Analysis Batch: 41411 Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate I-Chlorooctane p-Terphenyl lethod: 300.0 - Anions, Iol Lab Sample ID: MB 880-40994/ Matrix: Solid	119 137 78/3-A <u><i>LCSD</i></u> <u>%Recovery</u> 128 133 n Chromate	S1+ LCSI Qual S1+	D lifier	70 - 130 70 - 130 Spike Added 1000 1000 Limits 70 - 130	Result 872.7		- <mark>Unit</mark> mg/Kg	ent :	<u>D</u>	%Rec 87 90	Prep Ty %Rec Limits 70 - 130 70 - 130	Pe: To Batch: RPD 12 12 12	tal/N 4127 RP Lim 2 2
A-Chlorooctane Terphenyl Lab Sample ID: LCSD 880-412 Matrix: Solid Analysis Batch: 41411 Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate A-Chlorooctane D-Terphenyl ethod: 300.0 - Anions, Iou Lab Sample ID: MB 880-40994/	119 137 78/3-A <u><i>LCSD</i></u> <u>%Recovery</u> 128 133 n Chromate	S1+ LCSI Qual S1+	D lifier	70 - 130 70 - 130 Spike Added 1000 1000 Limits 70 - 130	Result 872.7		- <mark>Unit</mark> mg/Kg	ent :	<u>D</u>	%Rec 87 90	Prep Ty Prep E %Rec Limits 70 - 130 70 - 130	Pe: To Batch: RPD 12 12 12	tal/N 4127 RP Lim 2 2

12/09/22 11:10

5.00

mg/Kg

<5.00 U

Job ID: 880-22250-1 SDG: 03C2012015

1

Project/Site: Young #1 Tank Battery

Client: Ensolum

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 88	0-40994/2-A						Client	Sampl	e ID: Lab C		
Matrix: Solid									Prep	Type: S	oluble
Analysis Batch: 41276											
			Spike		LCS				%Rec		
Analyte			Added		Qualifier	Unit	D	%Rec	Limits		
Chloride			250	262.5		mg/Kg		105	90 - 110		
- Lab Sample ID: LCSD 8	380-40994/3-A					Clier	nt Sam	ple ID:	Lab Contro	ol Sampl	le Dup
Matrix: Solid										Type: S	
Analysis Batch: 41276										210 C	
			Spike	LCSD	LCSD				%Rec		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride			250	263.2		mg/Kg		105	90 - 110	0	20
_ Lab Sample ID: 880-222	250-2 MS								Client Sar	nple ID:	SW09
Matrix: Solid										Type: S	
Analysis Batch: 41276										.,,	
· · · · · · · · · · · · · · · · · · ·	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	11.3		251	285.9		mg/Kg		109	90 - 110		
_ Lab Sample ID: 880-222	250-2 MSD								Client Sar	nple ID:	SW09
Matrix: Solid										Type: S	
Analysis Batch: 41276										210 C	
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	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

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		8
Analysis Batch: 41992						9
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	4.0
LCSD 880-41760/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	41760	13
Analysis Batch: 42038						
Analysis Dalch. 42030						

Analysis Batch: 42038

Lab Sample ID 880-22250-1	Client Sample ID SW08	Prep Type Total/NA	Matrix	Method	Prep Batch
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	Ргер Туре	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	Ргер Туре	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

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Job ID: 880-22250-1 SDG: 03C2012015

GC Semi VOA

Analysis Batch: 41624

Lab Sample ID 880-22250-1	Client Sample ID	Prep Type Total/NA	Matrix	Method Prep	Batch
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

ab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22250-1	SW08	Soluble	Solid	DI Leach	
80-22250-2	SW09	Soluble	Solid	DI Leach	
380-22250-3	SW01	Soluble	Solid	DI Leach	
880-22250-4	SW02	Soluble	Solid	DI Leach	
880-22250-5	SW10	Soluble	Solid	DI Leach	
/IB 880-40994/1-A	Method Blank	Soluble	Solid	DI Leach	
CS 880-40994/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
CSD 880-40994/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-22250-2 MS	SW09	Soluble	Solid	DI Leach	
380-22250-2 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

Page 155 of 204

Job ID: 880-22250-1 SDG: 03C2012015

Lab Sample ID: 880-22250-1

Lab Sample ID: 880-22250-2

Lab Sample ID: 880-22250-3

Lab Sample ID: 880-22250-4

Client Sample ID: SW08

Project/Site: Young #1 Tank Battery

Date Collected: 12/02/22 11:20 Date Received: 12/02/22 13:48

Client: Ensolum

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	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	СН	EET MID	12/09/22 12:57

Client Sample ID: SW09

Date Collected: 12/02/22 11:25 Date Received: 12/02/22 13:48

	Batch	Batch		Dilution	Batch			Prepared
Ргер Туре	Туре	Method	Run	Factor	Number	Analyst	Lab	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

Date Collected: 12/02/22 11:30

Date	Received:	12/02/22	13:48

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	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	СН	EET MID	12/09/22 13:23

Client Sample ID: SW02 Date Collected: 12/02/22 11:35 Date Received: 12/02/22 13:48

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	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

Matrix: Solid

Matrix: Solid

Matrix: Solid

5 6

9

Matrix: Solid

Job ID: 880-22250-1 SDG: 03C2012015

Client Sample ID: SW02

Project/Site: Young #1 Tank Battery

Client: Ensolum

Date Collected: 12/02/22 11:35 Date Received: 12/02/22 13:48

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	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	СН	EET MID	12/09/22 13:30

Client Sample ID: SW10 Date Collected: 12/02/22 11:40

Date Received: 12/02/22 13:48

	Batch	Batch		Dilution	Batch			Prepared	
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	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	1
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	СН	EET MID	12/09/22 15:20	

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Lab Sample ID: 880-22250-4 Matrix: Solid

Matrix: Solid

Eurofins Midland

		Accreditation/C	ertification Summary		
Client: Ensolum Project/Site: Young #1	Tank Battery			Job ID: 880-22250-1 SDG: 03C2012015	2
Laboratory: Eurofi					
Unless otherwise noted, all a	analytes for this laborator	ry were covered under each acc	reditation/certification below.		
Authority		Program	Identification Number	Expiration Date	
Texas		NELAP	T104704400-22-24	06-30-23	
The following analytes	are included in this repo	rt but the laboratory is not certif	ied by the governing authority. This list ma	av include analytes for which	5
the agency does not of					
Analysis Method	Prep Method	Matrix	Analyte		
8015 NM		Solid	Total TPH		
Total BTEX		Solid	Total BTEX		
					8
					9
					10
					13

Eurofins Midland

.

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:

Client: Ensolum

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

Client: Ensolum Project/Site: Young #1 Tank Battery Job ID: 880-22250-1 SDG: 03C2012015

ib Sample ID	Client Sample ID	Matrix	Collected	Received	Depth	
0-22250-1	SW08	Solid	12/02/22 11:20	12/02/22 13:48	0 - 4'	
0-22250-2	SW09	Solid	12/02/22 11:25	12/02/22 13:48	0 - 4'	
0-22250-3	SW01	Solid	12/02/22 11:30	12/02/22 13:48	0 - 4'	
0-22250-4	SW02	Solid	12/02/22 11:35	12/02/22 13:48	0 - 4'	
0-22250-5	SW10	Solid	12/02/22 11:40	12/02/22 13:48	0 - 4'	

Revised Date: 08/25/2020 Rev 2020.2					ð									l'
					4				0					
						2 13:48	12-2-22		\mathbf{Y}	R		6		3 1
ed by (Signature) Date/Time	Received by	(Signature)	1 4	Relinquished by		Date/Time	Dat		(Signature)		Received by	þ þ	. (Signatun	Relinquished by (Signature)
eviously negotiated	nforced unless pre	terms will be e	lyzed These	o, but not and	rofins Xenc	nitted to Eu	imple subr	tor each s	a charge of \$	n project and	appired to eac	OF SOSTON MILLING	iniuni charge	Processing and a contraction of the second second project and a contract of the second sample submitted to Eurotins Xenco, but not analyzed. These terms will be enforced unless previously negotiated
and conditions yond the control	ntractors. It assigns standard terms and conditions hosses are due to circumstances beyond the control	ctors. It assign sses are due to	nd subcontra ent if such los	its affiliates a red by the cli	ins Xenco, enses incu	iny to Eurof	for any los	rder from cl sponsibility	id purchase o ssume any re	nstitutes a va und shall not a	of samples co st of samples a	relinquishment	co will be liable	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 contro
Hg 1631/2451/7470/7471	Ag TI U	Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U	Pb Mn	Cr Co Cu	Be Cd	As Ba	RA Sb	0 BRC	TCLP / SPLP 6010 BRCRA	TCLP	zed	to be analy	nd Metal(s)	Circle Method(s) and Metal(s) to be analyzed
Se Ag SiO ₂ Na Sr Ti Sn U V Zn	지	Pb Mg M	Co Cu Fe	Ca Cr C	e B Cd	As Ba Be	AI Sb /	Texas 11	13PPM Te	BRCRA 1		200.8 / 6020:	10 200.	Total 200.7 / 6010
		-												
					$\left \right $									
										-				
								\cap	0-4'	1140	12-22	5		alone
							[0	0-41	1135	12-2-22	5		SW02
nAPP2231476257								6	0-91	1130	12-2-22	C .		SUUT
								C	04	1175	12-2-22	j vj		Sinch
								0	64	1120	12-2-12	S S		80005
Sample Comments					BTEX	-ТРН (Cont CHLC	Comp C	Depth	Sampled	Sampled	Matrix	tification	Sample Identification
NaOH+Ascorbic Acid SAPC					(802	8015	ستعتماته							
Zn Acetate+NaOH Zn					21	5)	ES (<u>د ک</u>	e Reading	Corrected Temperature	A/N ON	I es	Total Containers
$Na_2S_2O_3$ NaSO ₃									<u>ه</u>	actor				Countin Custody Seals
NaHSO4 NABIS							Para	1	1-NM-007	er IU:	Inermometer IU:	es N	Ģ <	Cooler Chetody Seele:
H₃PO₄ HP							-7 - <u></u>	<u> </u>	(Yes No	Wet Ice	Yes No	Ιœ	1	SAMPLE RECEIPT
H ₂ S0 ₄ H ₂ NaOH Na							ters							
								wed by	TAT starts the day received by	TAT starts	nata	Julianna Falcomata	Inr	Sampler's Name
-22230 Charlen MeOH Me	880									Due Date	29807	32 767224, -103 729807	32 76	Project Location
Chain of Custody							Pres. Code	0.1	Rush	✓ Routine		03C2012015		Project Number
		IS REQUEST	ANALYSIS	A					Turn Around	1	attery	Young #1 Tank Battery	Youn	Project Name:
	rables	Deliverables					n com	Densolu	Email hgreen@ensolum.com	Ema		895	432-557-8895	Phone.
	Reporting Lev	Repor			9701	Midland, TX 79701	Midl	le ZIP	City, State ZIP	Sector sector		Carlsbad, NM, 88220	Carlsbad,	City, State ZIP-
	State of Project:	State			St	104 S Pecos :	104		Address			3122 Nat'l Parks Hwy	3122 Nat'l	Address:
Program: UST/PST PRP Brownfields RRC Superfund	am: UST/PST	Progra				Oi	BTA Oil	v Name'	Company Name			LTC	Ensolum, LLC	Company Name
Work Order Comments	a series a series de la serie de la se La serie de la s					Hall	Bob Hall	different)	Bill to. (if different)			en	Hadlie Green	Project Manager
www.xenco.com Page of	w		3-3199	Hobbs NM (575) 392-7550 Carlsbad NM (575) 988-3199	Carlsbad 1	92-7550 (VM (575) 3	Hobbs 1						לא אולי הקראו או אייר אייר אייר אייר אל לא האור אייר אייר אייר אייר אייר אייר אייר א
			1-1296	EL Paso TX (915) 585-3443 Lubbock TX (806) 794-1296	Lubbock	585-3443	TX (915)	EL Paso				Aenco		
Work Order No: JJJDU	Wor		09-3334	Midland TX (432) 704-5440 San Antonio TX (210) 509-3334	an Antonic)4-5440 S	X (432) 70	Midland T		stars	Frencest "esting	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		4
			0300	Houston TX (281) 240-4200 Datlas TX (244) 602-0200			TY (281	Housto				indt.	N S S	eurofins
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Job Number: 880-22250-1 SDG Number: 03C2012015

List Source: Eurofins Midland

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 22250 List Number: 1 Creator: Kramer, Jessica

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	N/A	

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").



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/ga/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



		ENSOLUM HADLIE GREEN 3122 NATIONAL PARKS HW CARLSBAD NM, 88220 Fax To:	Y	
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, -103.7	7298		

Sample ID: FS 21 A (H226045-01)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 BTEX	<0.300	0.300	12/22/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	79.8	% 46.3-17	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM HADLIE GREEN 3122 NATIONAL PARKS HW CARLSBAD NM, 88220 Fax To:	Y	
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, -103.7	7298		

Sample ID: FS 48 A (H226045-02)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	69.9-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	82.5	% 46.3-17	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM HADLIE GREEN 3122 NATIONAL PARKS HW CARLSBAD NM, 88220 Fax To:	Y	
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, -103.7	7298		

Sample ID: FS 66 A (H226045-03)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	79.9	% 46.3-17	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500CI-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

RDINAL oratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Released to Imaging: 3/20/2023 10:00:44 AM

Cardinal cannot accept verbal changes. Please email changes to celey keene@cardinallabsnm.com	changes. Please email chang	+ Cardinal cannot accept verbal	PORM-000 R 3.3 07/16/22
Turnaround Time: Standard [] Bacteria (only) Sample Condition Rush Cool Intact Observed Temp. °C Thermometer ID #113 [] Yes [] Yes Correction Factor -0.6°C [] Nc [] No Corrected Temp. °C	CHECKED BY: (Initials)	Observed Temp. °C 3, (C) Sample Condition Corrected Temp. °C 3, (L) Cool Intact No No No No	Delivered By: (Circle One) Sampler - UPS - Bus - Other:
		Time:	
REMARKS:	The Manuel and	1/00 UUUU 1/00 Received By:	Relinquished By:
All Results are emailed. Please provide Email address:	K	Date: /2-22/22 Received By:	hed By:
	stions, loss of use, or loss of profits incurred by clie claim is based upon any of the above stated reasu	I or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries formance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.	arisityses, wilcesins annually increased in roughest or consistence. In no event shall Cardinal be liable for incidental or consistences artisting out of or related to the performance
by the client for the completion of the applicable	ontract or tort, shall be limited to the amount paid b ing and received by Cardinal within 30 days after o	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or fort, shall be limited to the amount paid by the client for the pplic terms whether based in contract or fort, shall be limited to the amount paid by the client for the applic terms whether based in the state of the client for the pplic terms whether based in the state of the client for the pplic terms whether based in the state of the client for the applic terms whether based in the state of the client for the applic terms whether based in the state of the client for the applic terms whether based in the state of the state	PLEASE NOTE: Liability and Damages. Cardinal's liabil
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		# CON GROL	HUILTH
CH STY PI	R : BASE COOL	Sample I.D.	Lab I.D. Samp
L K #		ATER	2
ING	PRESERV. SAMPLING	P. MATRIX	FOR LAB USE ONLY
	Fax #:		20
202	Phone #: 472 - 712 - 220		Project Location: Log Co
	State: 7 Zip: 7970	Tark Rettery	Project Name: Young A /
	city: Midlard Q	Project Owner:	03626
Peas	JSYC	Fax #:	le#: 4
	Attn: Bus Hu /1	State: MM Zip: 88220	artsban
	Company: BTAQI	Parks Hart	1
	P.O. #:	GREN	
ANALYSIS REQUEST	BILL TO		Company Name: SnSchung
		575) 393-2326 FAX (575) 393-2476	(575) 393-232
		101 East Marland, Hobbs, NM 88240	101 East Marla



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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	02/08/2023	Sampling Date:	02/06/2023
Reported:	02/14/2023	Sampling Type:	Soil
Project Name:	YOUNG #1 TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C2012015	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA - LEA		

Sample ID: FS 31 A (H230568-01)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	02/10/2023	ND	448	112	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	02/08/2023	Sampling Date:	02/06/2023
Reported:	02/14/2023	Sampling Type:	Soil
Project Name:	YOUNG #1 TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C2012015	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA - LEA		

Sample ID: FS 32 A (H230568-02)

BTEX 8021B	mg	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	02/10/2023	ND	448	112	400	3.64	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.9	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	02/08/2023	Sampling Date:	02/06/2023
Reported:	02/14/2023	Sampling Type:	Soil
Project Name:	YOUNG #1 TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C2012015	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA - LEA		

Sample ID: FS 46 A (H230568-03)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/10/2023	ND	448	112	400	3.64	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.5	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	02/08/2023	Sampling Date:	02/06/2023
Reported:	02/14/2023	Sampling Type:	Soil
Project Name:	YOUNG #1 TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C2012015	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA - LEA		

Sample ID: FS 49 A (H230568-04)

BTEX 8021B	mg/	′kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	02/10/2023	ND	448	112	400	3.64	
TPH 8015M	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	75.7	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	02/08/2023	Sampling Date:	02/06/2023
Reported:	02/14/2023	Sampling Type:	Soil
Project Name:	YOUNG #1 TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C2012015	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA - LEA		

Sample ID: FS 50 A (H230568-05)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	02/10/2023	ND	448	112	400	3.64	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.0	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	02/08/2023	Sampling Date:	02/06/2023
Reported:	02/14/2023	Sampling Type:	Soil
Project Name:	YOUNG #1 TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C2012015	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA - LEA		

Sample ID: FS 56 A (H230568-06)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	02/10/2023	ND	448	112	400	3.64	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	126	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	02/08/2023	Sampling Date:	02/06/2023
Reported:	02/14/2023	Sampling Type:	Soil
Project Name:	YOUNG #1 TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C2012015	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA - LEA		

Sample ID: FS 58 A (H230568-07)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/10/2023	ND	448	112	400	3.64	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.7	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	02/08/2023	Sampling Date:	02/06/2023
Reported:	02/14/2023	Sampling Type:	Soil
Project Name:	YOUNG #1 TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C2012015	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA - LEA		

Sample ID: FS 60 A (H230568-08)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/10/2023	ND	448	112	400	3.64	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102 9	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	02/08/2023	Sampling Date:	02/06/2023
Reported:	02/14/2023	Sampling Type:	Soil
Project Name:	YOUNG #1 TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C2012015	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA - LEA		

Sample ID: FS 68 A (H230568-09)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/10/2023	ND	448	112	400	3.64	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	02/08/2023	Sampling Date:	02/06/2023
Reported:	02/14/2023	Sampling Type:	Soil
Project Name:	YOUNG #1 TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C2012015	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA - LEA		

Sample ID: FS 69 A (H230568-10)

BTEX 8021B	mg	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/10/2023	ND	448	112	400	3.64	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.0	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	02/08/2023	Sampling Date:	02/06/2023
Reported:	02/14/2023	Sampling Type:	Soil
Project Name:	YOUNG #1 TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C2012015	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA - LEA		

Sample ID: FS 70 A (H230568-11)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/10/2023	ND	448	112	400	3.64	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	82.4	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager


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

Received:	02/08/2023	Sampling Date:	02/06/2023
Reported:	02/14/2023	Sampling Type:	Soil
Project Name:	YOUNG #1 TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C2012015	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA - LEA		

Sample ID: FS 71 A (H230568-12)

BTEX 8021B	mg/	′kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/10/2023	ND	448	112	400	3.64	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



	HA 70 MI	NSOLUM, LLC ADLIE GREEN)5 W WADLEY AVE. IDLAND TX, 79705 IX To:		
Received:	02/08/2023		Sampling Date:	02/06/2023
Reported:	02/14/2023		Sampling Type:	Soil
Project Name:	YOUNG #1 TANK BATTE	ERY	Sampling Condition:	Cool & Intact
Project Number:	03C2012015		Sample Received By:	Shalyn Rodriguez
Project Location:	BTA - LEA			

Sample ID: FS 76 A (H230568-13)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/10/2023	ND	448	112	400	3.64	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.7	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	02/08/2023	Sampling Date:	02/06/2023
Reported:	02/14/2023	Sampling Type:	Soil
Project Name:	YOUNG #1 TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C2012015	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA - LEA		

Sample ID: FS 78 A (H230568-14)

BTEX 8021B	mg,	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/10/2023	ND	448	112	400	3.64	
TPH 8015M	mg,	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.7	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	02/08/2023	Sampling Date:	02/06/2023
Reported:	02/14/2023	Sampling Type:	Soil
Project Name:	YOUNG #1 TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C2012015	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA - LEA		

Sample ID: FS 79 A (H230568-15)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/10/2023	ND	448	112	400	3.64	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.1	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	02/08/2023	Sampling Date:	02/06/2023
Reported:	02/14/2023	Sampling Type:	Soil
Project Name:	YOUNG #1 TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C2012015	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA - LEA		

Sample ID: FS 80 A (H230568-16)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/10/2023	ND	448	112	400	3.64	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.6	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	02/08/2023	Sampling Date:	02/06/2023
Reported:	02/14/2023	Sampling Type:	Soil
Project Name:	YOUNG #1 TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C2012015	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA - LEA		

Sample ID: FS 81 A (H230568-17)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2023	ND	2.05	103	2.00	3.71	
Toluene*	<0.050	0.050	02/11/2023	3 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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/10/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	02/08/2023	Sampling Date:	02/06/2023
Reported:	02/14/2023	Sampling Type:	Soil
Project Name:	YOUNG #1 TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	03C2012015	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA - LEA		

Sample ID: FS 83 A (H230568-18)

BTEX 8021B	mg	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2023	ND	2.05	103	2.00	3.71	
Toluene*	<0.050	0.050	02/11/2023	02/11/2023 ND		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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.3	% 49.1-14	8						

Cardinal Laboratories

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Bus - Other: Correcte Objects.2 10/07/21 t	Date: Received By:	cluding those for negligence and any other cause whateed cluding those for negligence and any other cause whateed all Cardinal be liable for incidential or consequential dama artising cut of or reliated to the performance of services he artising cut of or reliated to the performance of services he Bay:		-	2 1 2 X X X X X X X X X X X X X X X X X	0	5 50A	FS 46A	C 1	(G)RAB OR (C # CONTAINER GROUNDWA WASTEWATE SOIL DIL	C)OMP. RS	FUX LAB LISE ONLY MATRIX	Sampler Name: Fater Var Fatten	-	Project Name: Young #1 Tank Battery	0362012015	e# 432-557-8895	St Suite 400	Hausse Onen	Project Manager: U.S. 1:0	101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476	Laboratories
d Temp, *C Sample Condition CHECKED BY: Turnaround Time: Standard Bacteria (only) Sample Condition d Temp, *C Yes Yes Yes Yes Thermometer ID #113 Cool Intact Observed Temp, *C Intercent No No No Solution Correction Factor 0.5*C Intercent Ves Yes Cardinal cannot accept verbal changes. Please email changes to celey,keene@cardinallabsnm.com No No Corrected Temp. *C	MULLY All Result: DYes DYNo Add'I Phone #: All Results are emailed. Please provide Email address: Mgrcen Oevis dury, com, fit ming 5 Oensyluu, com RENDARKS:	limited to the emount paid by the client for the refinit within 30 days after completion of the applicat so of profils incurred by client, its subsidiaries, and the above stated reasons or otherwise.	V V V V V V V V V V V V V V V V V V V	2-6-23 1430	V 2-6-23 1420 V V V	2-6-25 1250 V V	V V 2451 22-3-2	2-6-23 1200	1170 0			PRESERV		#432-210-978	8	(C)	Attn: Bob Hall	Company: BTA 07		BILL TO ANALYSIS REDUEST		CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

e@cardinallabsnm.com	iges to celey.keene(es. Please email chan	Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com	† Cardinal can		
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	id by the client for the ir completion of the applicable liant in monitoria	ed unfeess made in whiting and received by Cardinal within 30 days dire completion of the a bon, business interruptions, loss of use, or loss of profile incorrect by circumstance in the sub-size of the sub	shall be deemed waked unless made in wiking and necked by us can unusu to the annound pod by the doord for the Including without limitation, business interruptions, loss of use, or loss of profile hourned by clear a explicable	cause whatsoever quental damages,	service. In no event shall Cardinal be liable for inclental or conse affliates or successors arising out of or related to the norformance	service. In no event shall affiliates or successors an
			claim arising whether based in contract or	billy and client's exclusive remedy for any claim arisis	ity and Damages. Cardinal's liab	PLEASE NOTE: Liability analyses. All daims indu
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Page 22 of 22



APPENDIX D

NMOCD Notifications

Released to Imaging: 3/20/2023 10:00:44 AM

Anita Thapalia

From:	OCDOnline@state.nm.us
Sent:	Monday, November 21, 2022 6:29 PM
То:	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.ipg

[**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



From: Hadlie Green <<u>hgreen@ensolum.com</u>>
Sent: Thursday, February 2, 2023 10:41 AM
To: Enviro, OCD, EMNRD <<u>OCD.Enviro@emnrd.nm.gov</u>>
Cc: Tacoma Morrissey <<u>tmorrissey@ensolum.com</u>>; Bob Hall <<u>bhall@btaoil.com</u>>
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

•

Released to Imaging: 3/20/2023 10:00:44 AM

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# (<i>if applicable</i>) Nearest well:

Unit Letter	Section	Township	Range	County
А	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)

Crude Oil	Volume Released (bbls) 218 BBL	Volume Recovered (bbls) 100 BBL
Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Release		

Clube of Refeuse

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.

Page 2

Oil Conservation Division

Incident ID	nAPP2230983706
District RP	
Facility ID	fAPP2201832674
Application ID	

Was this a major release as defined by	If YES, for what reason(s) does the responsible party consider this a major release?
19.15.29.7(A) NMAC?	The release volume exceeded 25 BBL fluid.
🛛 Yes 🗌 No	
If YES, was immediate n	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
NOR assigned the pre	esent 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

 \boxtimes The source of the release has been stopped.

The impacted area has been secured to protect human health and the environment.

Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not 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

OCD Only

Received by: _____ Jocelyn Harimon _____ Date: 11/21/2022

Location Young #1 Tank Failure API # Spill Date 11/11/2022

Spill Dimensions

ENTER - Length of Spill ENTER - Width of Spill ENTER - Saturation Depth of Spill

ENTER - Porosity Factor

81.5	feet
81.5	feet
6	inches



100 BBL

0 BBL

99.999 0.001 0.99999

Oil Cut - Well Test / Vessel Throughput or Contents
Oil
Water
Calculated Oil Cut

Volume Recovered in Truck / Containment ENTER - Recovered Oil

ENTER - Recovered Water

Release of Oil in Soil - Unrecovered Release of Water in Soil - Unrecovered Unrecovered Total Release

calculo	nted	
	118	BBL
	0	BBL
	118	BBL

Calculated Values
Total Release of Oil

Total Release of Water Total Release

calculated
218 BBL
0 BBL
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 Porosity 5.615 ft³ / BBL

Х

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

Operator:	OGRID:
BTA OIL PRODUCERS, LLC	260297
104 S Pecos	Action Number:
Midland, TX 79701	160584
	Action Type:
	[C-141] Release Corrective Action (C-141)
CONDITIONS	

Created By Condition Condition Date 11/21/2022 jharimon None

CONDITIONS

Page 1200e of 204

Action 160584

Page 3

Oil Conservation Division

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.

Did this release impact groundwater or surface water?	(ft,bgs) ⊠ No ⊠ No
☐ Yes	🛛 No
	🛛 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)?	🛛 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🛛 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?	🛛 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	\square No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh	🛛 No
Are the lateral extents of the release within 300 feet of a wetland?	🛛 No
Are the lateral extents of the release overlying a subsurface mine?	
Are the lateral extents of the release overlying an unstable area such as karst geology?	No No
Are the lateral extents of the release within a 100-year floodplain?	No No
Did the release impact areas not on an exploration, development, production, or storage site?	⊠ No □ 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
- \boxtimes Depth to water determination
- Determination of water sources and significant watercourses within ¹/₂-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.

eived by OCD: 3/10/202	23 1:27:58 PM				Page 202 of
Form C-141	State of New Mexico		[Incident ID	nAPP2231476257
Page 4 Oil Conservation I	Oil Conservation Division	1		District RP	
				Facility ID	fAPP2201832674
				Application ID	
regulations all operators a public health or the enviro failed to adequately invest addition, OCD acceptance and/or regulations. Printed Name: <u>Bob H</u> Signature: <u>Bob H</u> email: <u>bhall@btaoi</u>	2 Hall	otifications a e OCD does n hreat to groun of responsibi Title: Date:	nd perform control relieve the adwater, surface lity for compliant	rrective actions for rel operator of liability sh ce water, human health iance with any other for ental Manager 2023	eases which may endanger hould their operations have h or the environment. In
OCD Only Received by: Jo	celyn Harimon]	Date: 03/1	0/2023	

Received by OCD: 3/10/2023 1:27:58 PM

Form C-141 Page 6 State of New Mexico Oil Conservation Division Page 203 of 204

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: <u>bhall@btaoil.com</u>	Telephone: <u>432-682-3753</u>			
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 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

Operator: 0	OGRID:
BTA OIL PRODUCERS, LLC	260297
104 S Pecos	Action Number:
Midland, TX 79701	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

Action 195804