



December 6, 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
Ogden Substation Tank Overflow
Incident Number nAPP2230983706
Eddy County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of BTA Oil Producers, LLC (BTA), has prepared this *Closure Request* to document assessment, excavation, and soil sampling activities performed at the Ogden Substation Tank Overflow (Site). The purpose of the Site assessment, excavation, and soil sampling activities was to assess the integrity of the lined storage tank containment and address the impacted soil outside of containment, resulting from a produced water release at the Site. Based on field observations, excavation activities, and laboratory analytical results from the soil sampling events, BTA is submitting this Closure Request and requesting no further action for Incident Number nAPP2230983706.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit E, Section 32, Township 23 South, Range 28 East, in Eddy County, New Mexico (32.26246°, -104.11691°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On November 4, 2022, a transfer pump failed to start, causing the produced water tanks to overflow into the secondary lined containment. The lined containment overflowed and produced water was released onto the surface of the well pad. Approximately 988 barrels (bbls) of produced water were released. A vacuum truck was dispatched to the Site to recover free-standing fluids; approximately 972 bbls of produced water were recovered from ground surface and lined containment. BTA reported the release immediately to the New Mexico Oil Conservation Division (NMOCD) via email on November 4, 2022, and submitted a Release Notification Form C-141 (Form C-141) on November 18, 2022. The release was assigned Incident Number nAPP2230983706.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess the applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented on the Form C-141, Site Assessment/Characterization. Potential Site receptors are identified on Figure 1.

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Depth to groundwater at the Site is estimated to be between 51 feet to 100 feet below ground surface (bgs) based on the closest groundwater well data. The closest groundwater well with depth to groundwater data is United States Geological Survey (USGS) well 321552104071601, located approximately 0.3 miles northwest of the Site. The groundwater well has a reported depth to groundwater of 57 feet bgs and a total depth of 93 feet bgs. All wells used for depth to groundwater determination are depicted on Figure 1 and the referenced well records are included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is an irrigation canal, located approximately 2,354 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 underlain by unstable geology (high potential karst designation area). Site receptors are identified on Figure 1.

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

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

SITE ASSESSMENT AND DELINEATION ACTIVITIES

On November 21, 2022, Ensolum personnel were at the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. Ten soil samples (SS01 through SS10) were collected within and around the release at a depth of approximately 0.5 feet bgs to assess the extent of the release. The 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 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.

On January 25 and 26, 2023, delineation activities were conducted at the Site to assess the vertical extent of the release. Potholes PH01 through PH06 were advanced via track mounted backhoe within the release extent at the locations of soil samples SS01 through SS06. The delineation potholes were advanced to a depth of 4 feet bgs. Discrete delineation soil samples were collected from each pothole at depths ranging from 1-foot to 4 feet bgs. Soil from the potholes was field screened using the same procedures described above. Field screening results and observations for the potholes were logged on lithologic/soil sampling logs, which are included in Appendix C. The delineation soil sample locations are depicted on Figure 2.

The delineation 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 for the following chemicals of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following Standard Method (SM) SM4500. Soil samples delivered to the laboratory the same day they are collected may not have equilibrated to the 6 degrees Celcius required for shipment and long term storage, but are considered to have been received in acceptable condition.

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Laboratory analytical results for soil samples SS01 through SS06, collected within the release extent, indicated chloride and/or TPH concentrations exceeded the Site Closure Criteria. Laboratory analytical results for soil samples SS07 through SS10, collected around the release extent, indicated all COC concentrations were compliant with the Site Closure Criteria and successfully defined the lateral extent of the release.

Laboratory analytical results for the delineation soil samples collected from potholes PH01 through PH03 indicated chloride concentrations exceeded the Site Closure Criteria at depths ranging from 1-foot to 2 feet bgs. Laboratory analytical results for the delineation soil samples from potholes PH04 through PH06, collected at depths ranging from 1-foot to 4 feet bgs, indicated all COC concentrations were compliant with the Site Closure Criteria. The laboratory analytical results are summarized on the attached Table 1 and the complete laboratory analytical reports are included in Appendix D.

LINER INTEGRITY INSPECTION AND EXCAVATION ACTIVITIES

A 48-hour advance notice of liner inspection was provided via email to the NMOCD on October 26, 2023. A liner integrity inspection was completed for the storage tank containment liner by Ensolum personnel on October 30, 2023. Upon inspection, no rips, tears, holes, or damage was observed. The liner was determined to be sufficient.

Between October 18, 2022 and November 29, 2023, Ensolum personnel were at the Site to oversee excavation of the impacted soil outside of the lined containment. Impacted soil was excavated as indicated by visible staining, field screening activities, and laboratory analytical results for the delineation soil samples. Excavation activities were performed via hand shoveling and backhoe. To direct excavation activities, soil was screened for VOCs and chloride. The excavation was completed to depths ranging from 1-foot to 4 feet bgs.

Following the excavation activities, 5-point composite samples were collected 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 FS44 were collected from the floor of the excavation at depths ranging from 1-foot to 4 feet bgs. Composite soil samples SW01 through SW13 were collected from the sidewalls of the excavation at depths ranging from the ground surface to 4 feet bgs. The soil samples were collected, handled, and analyzed following the same procedures as described above. The excavation extent and excavation soil sample locations were mapped utilizing a handheld GPS unit and are depicted on Figure 3. A photographic log of the excavation is included as Appendix B.

Laboratory analytical results for excavation soil samples FS01 through FS44, SW01 through SW08, and SW10 through SW13, collected from the final excavation extent, indicated all COC concentrations were compliant with the Site Closure Criteria. The laboratory analytical results are summarized on Table 1 and the complete laboratory analytical reports are included as Appendix D.

The excavation measured approximately 8,845 square feet in areal extent. A total of approximately 504 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Disposal Facility located in Hobbs, New Mexico. After completion of confirmation sampling, the excavation was backfilled.

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CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address impacted soil resulting from the November 4, 2022, produced water release within the secondary lined containment and onto the well pad surface. A liner inspection was conducted by Ensolum personnel on October 30, 2023. Upon inspection, no rips, tears, holes, or damage was observed, and the liner was determined to be sufficient. Impacted soil was excavated from the release area outside of the lined containment. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated all COC concentrations were compliant with the Site Closure Criteria. In addition, laboratory analytical results for lateral delineation soil samples SS07 through SS10 indicated all COC concentrations were compliant with the strictest Table I Closure Criteria and successfully defined the lateral extent of the release. Based on the soil sample analytical results, no further remediation is required.

Initial response efforts and excavation of impacted soil have mitigated impacts at the Site. Depth to groundwater is estimated to be between 51 feet and 100 feet bgs and no other sensitive receptors were identified near the Site. BTA believes the remedial actions completed are protective of human health, the environment, and groundwater. As such, BTA respectfully requests closure for Incident Number nAPP2230983706. Notifications submitted to the NMOCD are included in Appendix E and the final Form C-141 is included as Appendix F.

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

Sincerely,
Ensolum, LLC



Hadlie Green
Project Geologist



Aimee Cole
Senior Managing Scientist

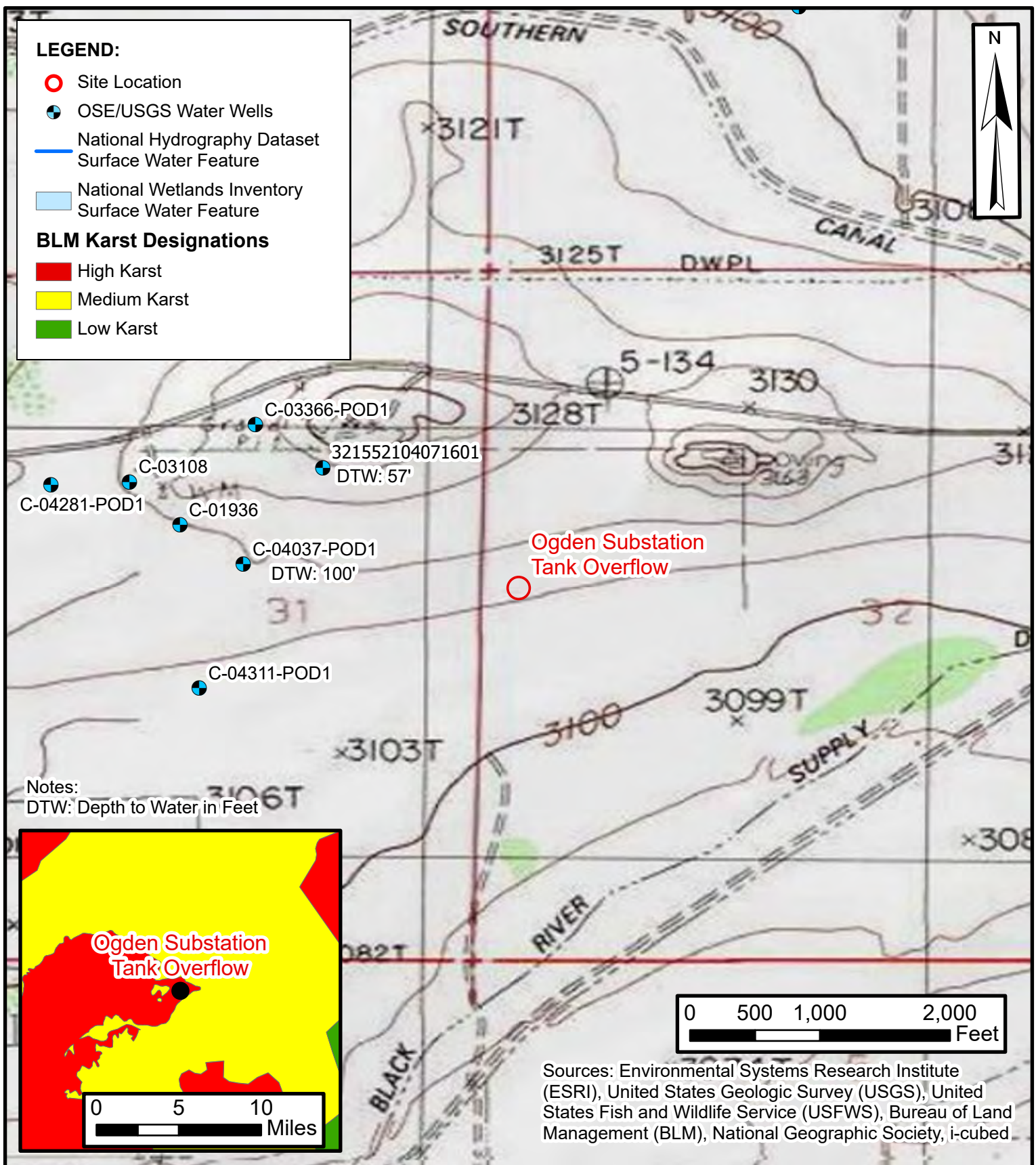
cc: Kelton Beaird, BTA
Bureau of Land Management

Appendices:

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



FIGURES



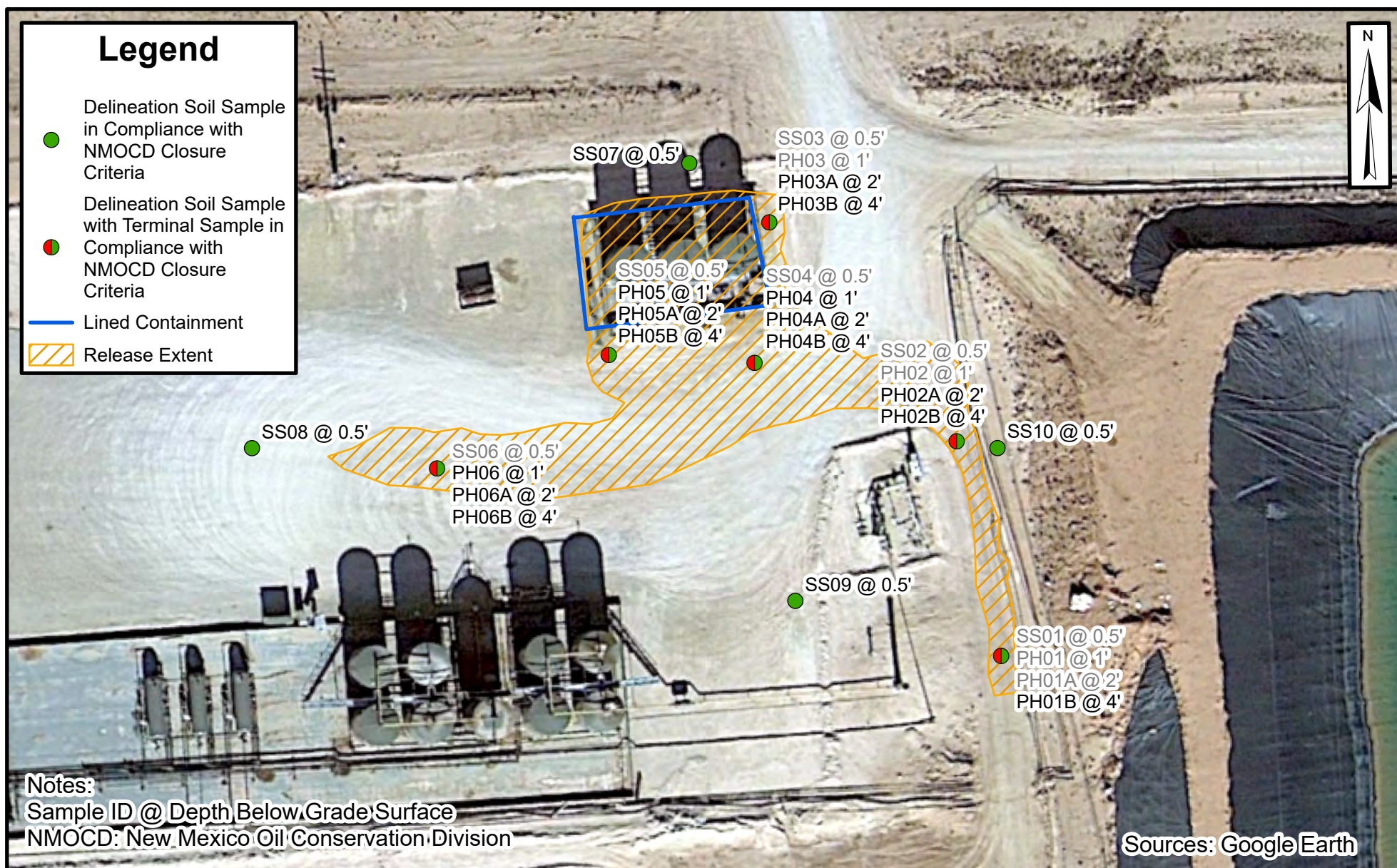
Site Receptor Map

Ogden Substation Tank Overflow
BTA Oil Producers, LLC

Incident Number: nAPP2230983706
Unit E, Sec 32, T23S, R28E
Eddy County, New Mexico

FIGURE

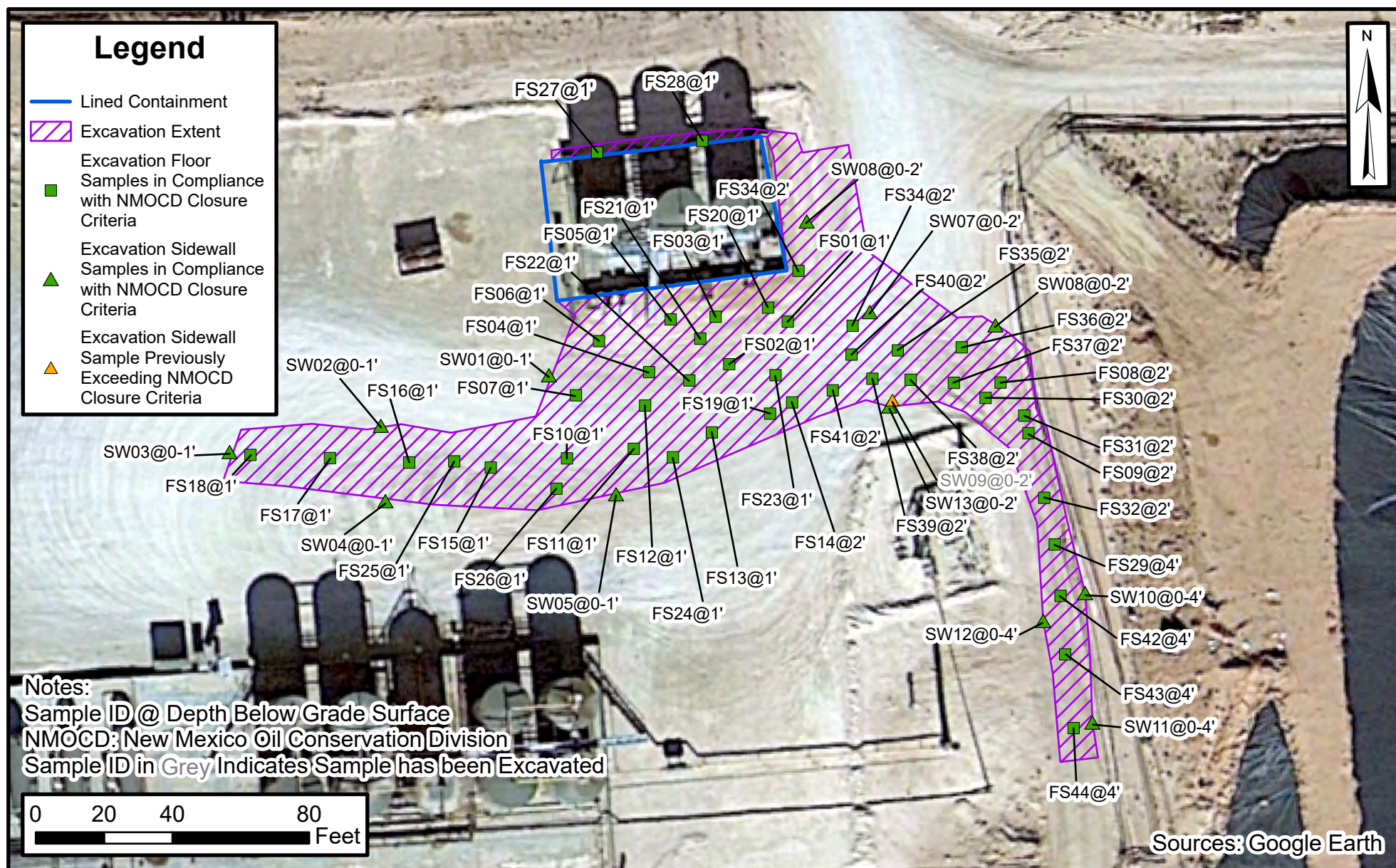
1



Delineation Soil Sample Locations

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 Unit E, Sec 32, T23S, R28E
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FIGURE
2



Excavation Soil Sample Locations

Ogden Substation Tank Overflow
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 Unit E, Sec 32, T23S, R28E
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FIGURE
3



TABLES

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 Ogden Substation Tank Overflow
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Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
Delineation Soil Samples										
SS01	11/21/2022	0.5	<0.050	<0.300	<10.0	86.7	10.9	86.7	97.6	12,000
SS02	11/21/2022	0.5	<0.050	<0.300	<10.0	165	20.4	165	185.4	16,000
SS03	11/21/2022	0.5	<0.050	<0.300	<10.0	125	20.5	125	145.4	18,600
SS04	11/21/2022	0.5	<0.050	<0.300	<10.0	348	52.9	348	400.9	38,000
SS05	11/21/2022	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	17,000
SS06	11/21/2022	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	12,800
SS07	11/21/2022	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	288
SS08	11/21/2022	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
SS09	11/21/2022	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	384
SS10	11/21/2022	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
PH01	01/25/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,940
PH01A	01/25/2023	2	<0.050	<0.300	<10.0	23.8	<10.0	23.8	23.8	2,210
PH01B	01/25/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	448
PH02	01/25/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	848
PH02A	01/25/2023	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	368
PH02B	01/25/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
PH03	01/25/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,140
PH03A	01/25/2023	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	352
PH03B	01/25/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	368
PH04	01/25/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	592
PH04A	01/25/2023	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
PH04B	01/25/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
PH05	01/25/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
PH05A	01/25/2023	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
PH05B	01/25/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
PH06	01/25/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	306
PH06A	01/25/2023	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
PH06B	01/25/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208

TABLE 1
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Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
Excavation Floor Soil Samples										
FS01	10/19/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS02	10/19/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS03	10/19/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
FS04	10/19/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS05	10/19/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS06	10/19/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS07	10/19/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
FS08	10/20/2023	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	448
FS09	10/20/2023	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	432
FS10	10/20/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS11	10/20/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
FS12	10/20/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS13	10/20/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS14	11/16/2023	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	464
FS15	10/23/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256
FS16	10/23/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
FS17	10/23/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
FS18	10/23/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
FS19	10/24/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	320
FS20	10/24/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256

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NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
FS21	10/24/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
FS22	10/24/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS23	10/24/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS24	10/24/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS25	10/24/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
FS26	10/24/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS27	10/24/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS28	10/24/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
FS29	10/24/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	464
FS30	10/24/2023	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS31	10/24/2023	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
FS32	10/24/2023	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	448
FS33	11/16/2023	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	352
FS34	11/16/2023	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	384
FS35	11/16/2023	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	512
FS36	11/16/2023	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	272
FS37	11/16/2023	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
FS38	11/16/2023	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	336
FS39	11/16/2023	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	416
FS40	11/16/2026	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	496
FS41	11/16/2023	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	352
FS42	11/16/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	320
FS43	11/16/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS44	11/16/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0

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NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
Excavation Sidewall Soil Samples										
SW01	10/19/2023	0 - 1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SW02	10/23/2023	0 - 1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
SW03	10/23/2023	0 - 1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
SW04	10/23/2023	0 - 1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
SW05	10/23/2023	0 - 1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
SW06	11/16/2023	0 - 2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	336
SW07	11/16/2023	0 - 2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	432
SW08	11/16/2023	0 - 2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	448
SW09	11/16/2023	0 - 2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,070
SW10	11/16/2023	0 - 4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SW11	11/16/2023	0 - 4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SW12	11/16/2023	0 - 4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SW13	11/29/2023	0 - 2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	528

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NE: Not Established

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

Grey text indicates sample has been excavated.



APPENDIX A

Referenced Well Records



[USGS Home](#)
[Contact USGS](#)
[Search USGS](#)

National Water Information System: Web Interface

USGS Water Resources (Cooperator Access)

Data Category:

Groundwater

Geographic Area:

United States

GO

Click to hide News Bulletins

- Explore the *NEW* [USGS National Water Dashboard](#) interactive map to access real-time water data from over 13,500 stations nationwide.
- [Full News](#) 

Groundwater levels for the Nation



Important: [Next Generation Monitoring Location Page](#)

Search Results -- 1 sites found

site_no list =

- 321552104071601

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

USGS 321552104071601 23S.28E.31.23142

Available data for this site

Groundwater: Field measurements

GO

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°15'52", Longitude 104°07'16" NAD27

Land-surface elevation 3,139 feet above NAVD88

The depth of the well is 93 feet below land surface.

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

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

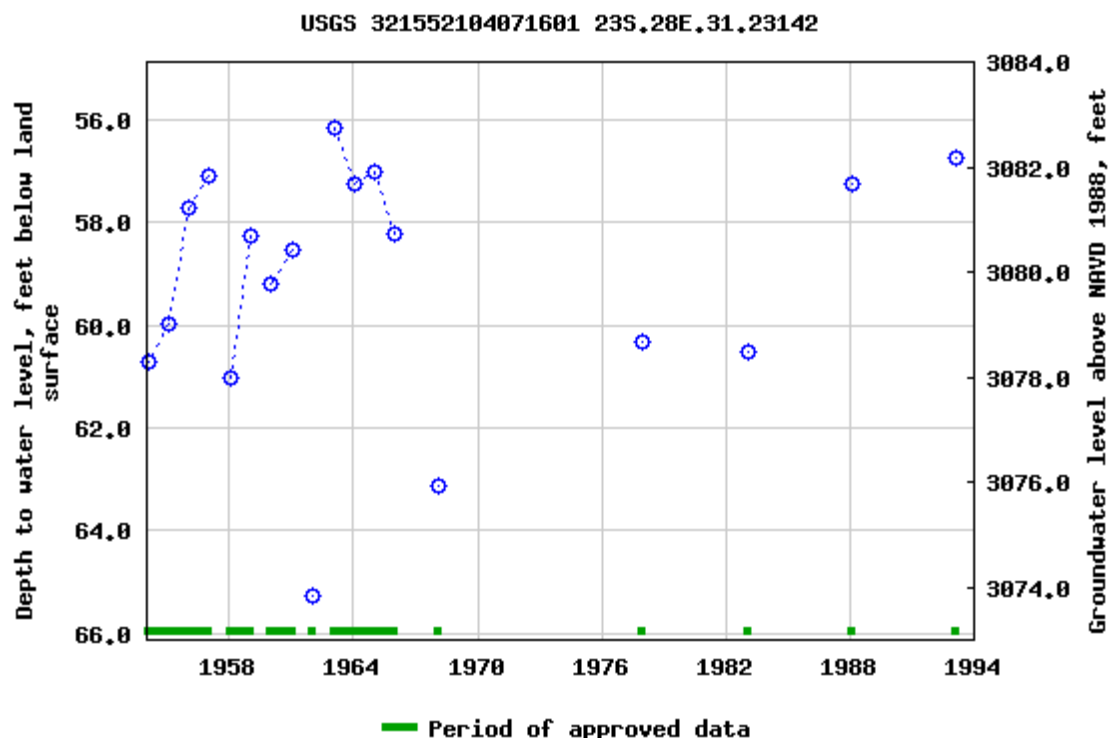
Output formats

[Table of data](#)

[Tab-separated data](#)

[Graph of data](#)

[Reselect period](#)



Breaks in the plot represent a gap of at least one year between field measurements.

[Download a presentation-quality graph](#)

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[Help](#)

[Data Tips](#)

[Explanation of terms](#)

[Subscribe for system changes](#)

[News](#)

[Accessibility](#)

[FOIA](#)

[Privacy](#)

[Policies and Notices](#)

[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)

Title: Groundwater for USA: Water Levels

URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>

Page Contact Information: [USGS Water Data Support Team](#)

Page Last Modified: 2023-02-02 08:52:08 EST

0.64 0.5 nadww01





WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

STATE OF NEW MEXICO
HOSWELL, NEW MEXICO

2017 AUG 28 AM 10:47

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) C-4037		WELL TAG ID NO.		OSE FILE NO(S).			
	WELL OWNER NAME(S) Sendero Calrsbad Midstream LLC				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS 16430 Park Ten Place Suite 675				CITY Houston	STATE TX	ZIP 77084	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 15	SECONDS 45.1 N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84			
LONGITUDE 104 07 23.8 W DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE Well is off of Bounds Rd. at Sendero refinery. Location is close to the northern fence line.								
2. DRILLING & CASING INFORMATION	LICENSE NO. WD-1348		NAME OF LICENSED DRILLER Clinton E. Taylor			NAME OF WELL DRILLING COMPANY Taylor Water Well Service		
	DRILLING STARTED 7/17/2017	DRILLING ENDED 7/18/2017	DEPTH OF COMPLETED WELL (FT) 98.5	BORE HOLE DEPTH (FT) 100	DEPTH WATER FIRST ENCOUNTERED (FT) 60			
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input type="checkbox"/> DRY HOLE <input checked="" type="checkbox"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) 34			
	DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY:							
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	+1.5	58.5	8 1/2	PVC	Spline	4 1/2	SDR 17	
	58.5	98.5	8 1/2	PVC	Spline	4 1/2	SDR 17	.032
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						
	0	20	8 1/2	20% Bentonite Grout	3 Sacks	Tremie		
	20	98.5	8 1/2	3/8" Pea Gravel	2 Yards	Dump		

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/30/17)

FILE NO.	C-4037	POD NO.	1	TRN NO.	604774
LOCATION	Drink/Sanit	235.28E.31.234	WELL TAG ID NO.		PAGE 1 OF 2

[illegible]

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 06/30/2017)	
FILE NO.	POD NO.	TRN NO.	
LOCATION	WELL TAG ID NO.		PAGE 2 OF 2

Tom Blaine, P.E.
State Engineer



Roswell Office
1900 WEST SECOND STREET
ROSWELL, NM 88201

**STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER**

Trn Nbr: 604776
File Nbr: C 04037
Well File Nbr: C 04037 POD1

Sep. 01, 2017

SAM HEFFINGTON
TRAILHEAD ENGINEERING
16430 PARK TEN PLACE
SUITE 675
HOUSTON, TX 77084

Greetings:

The well driller's record for the above numbered well has been received in this office indicating your well has been completed.

Your permit was granted with the condition that a meter(s) be installed and meter readings submitted to this office.

Per Condition 5B, please advise this office within 30 days, on the attached form, of the make, model, serial number, date of installation, and initial reading of the meter(s) prior to appropriation of the water.

If you have any questions, please feel free to contact us.

Sincerely,

A handwritten signature in black ink, appearing to read "Yolanda Mendiola".

Yolanda Mendiola
(575) 622-6521

Enclosure

wellcon5



APPENDIX B

Photographic Log

**Photographic Log**

BTA Oil Producers, LLC

Ogden Substation Tank Overflow

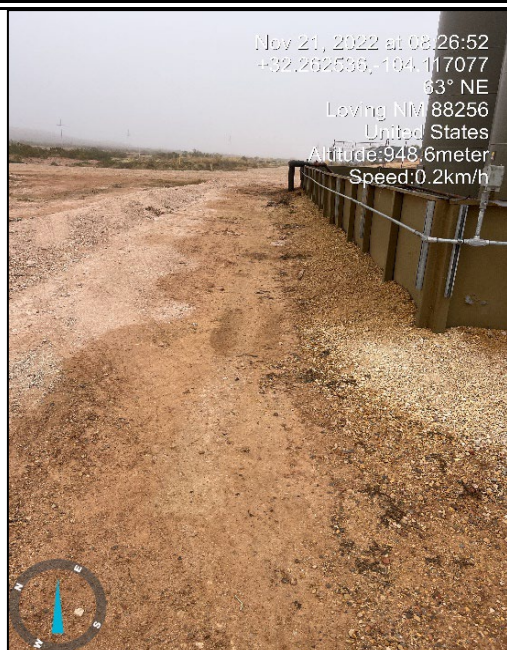
Incident Number nAPP2230983706



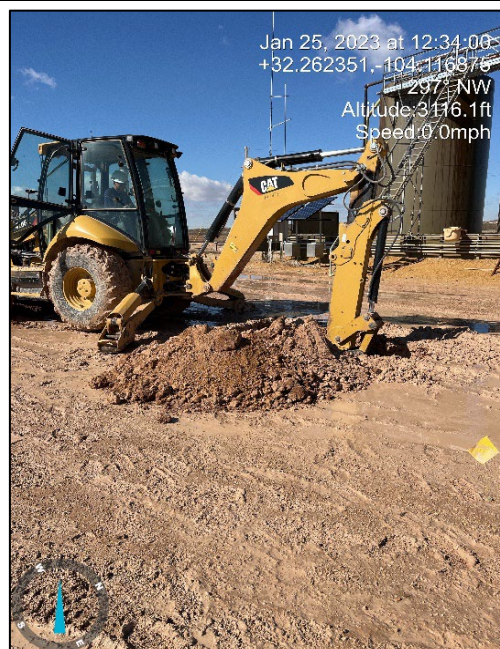
Photograph: 1 Date: 11/4/2022
Description: Soil staining in release footprint
View: West



Photograph: 2 Date: 11/21/2022
Description: Soil staining in release footprint
View: Northwest



Photograph: 3 Date: 11/21/2022
Description: Soil staining in release footprint
View: Northeast



Photograph: 4 Date: 1/25/2023
Description: Delineation activities
View: Northwest

**Photographic Log**

BTA Oil Producers, LLC

Ogden Substation Tank Overflow

Incident Number nAPP2230983706



Photograph: 5 Date: 10/19/2023

Description: Excavation activities

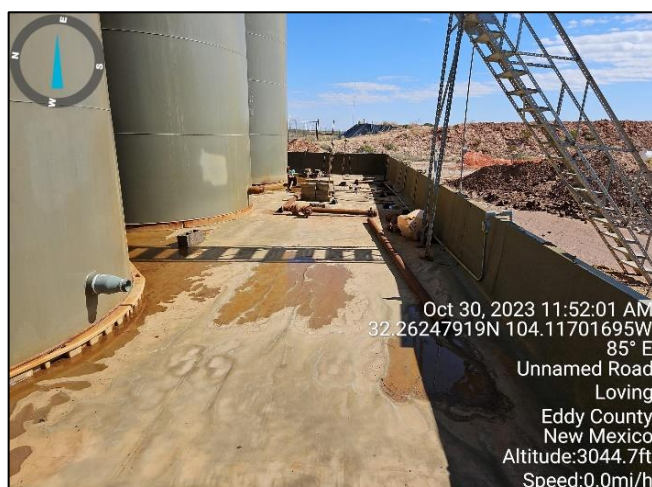
View: Southwest



Photograph: 6 Date: 11/29/2023

Description: Excavation activities

View: South



Photograph: 7 Date: 10/30/2023

Description: View of lined containment deemed to be in good condition, facing east.




Photograph: 8 Date: 10/30/2023


Description: View of lined containment with pooled rain water, deemed to be in good condition, facing east.





APPENDIX C


Lithologic Soil Sampling Logs


 ENSOLUM								Sample Name: PH01		Date: 01/25/23	
								Site Name: Ogden Substation Tank Overflow			
								Incident Number: NAPP2230983706			
								Job Number: 03C2012016			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: MR		Method: Backhoe	
Coordinates: 32.261866, -104.117304								Hole Diameter: NA		Total Depth: 4'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
N	21749	1.6	Y	SS01	0.5	0	CCHE	CALICHE, dark/medium brown, subrounded grains, stained, slight odor			
M	2033	0	N	PH01	1	1	SP-SM	SAND, dark brown, poorly sorted, some caliche gravel mixed in, moist, no staining, no odor			
M	2873	20.4	N	PH01A	2	2	SP-SM	SAA, but with odor			
D	526.4	0.5	N			3	CCHE	CALICHE, medium brown caliche, with angular grains, dry, no odor, no staining			
D	369.6	0.4	N	PH01B	4	4	CCHE	SAA			
TD @ 4 feet bgs											
<div style="position: absolute; top: 0; right: 0; width: 100%; height: 100%; border-left: 2px solid black; border-bottom: 2px solid black;"></div>											


 ENSOLUM								Sample Name: PH02		Date: 01/25/23	
								Site Name: Ogden Substation Tank Overflow			
								Incident Number: NAPP2230983706			
								Job Number: 03C2012016			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: MR		Method: Backhoe	
Coordinates: 32.261866, -104.117304								Hole Diameter: NA		Total Depth: 4'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
						0					
M	15256	0.4	Y	SS02	0.5	0.5	CCHE	CALICHE, dark/medium brown, subrounded grains, moist, stained, slight odor			
M	649.6	9.9	N	PH02	1	1	SP-SM	SAND, dark brown, mixed with caliche gravel, slight odor, moist, no staining			
M	246.4	0.1	N	PH02A	2	2	SP-SM	SAA, more gravel			
D	369.6	0	N			3	CCHE	CALICHE, medium/dark brown with silt mix, no stain, no odor			
D	280	0.2	N	PH02B	4	4	CCHE	SAA, some claystone mixed in			
TD @ 4 feet bgs											
<div style="position: absolute; top: 0; right: 0; width: 100%; height: 100%; border-left: 2px solid black; border-bottom: 2px solid black;"></div>											


 ENSOLUM								Sample Name: PH03		Date: 01/25/23	
								Site Name: Ogden Substation Tank Overflow			
								Incident Number: NAPP2230983706			
								Job Number: 03C2012016			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: MR		Method: Backhoe	
Coordinates: 32.261866, -104.117304								Hole Diameter: NA		Total Depth: 4'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
						0					
M	19796	0.2	Y	SS03	0.5	0.5	CCHE	CALICHE, dark/medium brown, subrounded grains, moist, stained, slight odor			
M	1126	0.2	Y	PH03	1	1	SP-SM	SAND, dark brown, poorly sorted, some staining, no odor, moist			
M	<173.6	0.3	N	PH03A	2	2	SP-SM	SAND, medium brown, some claystones, poorly sorted, no staining, no odor, moist			
D	<173.6	0.4	N			3	SC	Red/pink claystones, angular with cleavage planes, clear/white, no staining, no odor, dry			
D	<173.6	0.3	N	PH03B	4	4	SC	SAA			
TD @ 4 feet bgs											
<div style="position: absolute; top: 0; right: 0; width: 100%; height: 100%; border-left: 2px solid black; border-bottom: 2px solid black;"></div>											


 ENSOLUM								Sample Name: PH04		Date: 01/25/23	
								Site Name: Ogden Substation Tank Overflow			
								Incident Number: NAPP2230983706			
								Job Number: 03C2012016			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: MR		Method: Backhoe	
Coordinates: 32.261866, -104.117304								Hole Diameter: NA		Total Depth: 4'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
M	>34429	1.5	Y	SS04	0.5	0	CCHE	CALICHE, medium brown, subrounded grains, moist, stained, slight odor			
M	649.6	0.5	N	PH04	1	1	CCHE	SAA, no odor, no staining			
M	173.6	0.2	N	PH04A	2	2	SP-SM	SAND, medium/dark brown sand/silt mix, sub-angular grains, poorly sorted, no odor, no staining, moist			
M	173.6	1.6	N			3	SP-SM	SAA, with odor			
M	<173.6	0.2	N	PH04B	4	4	SC	Red claystones with calcite, angular grains, cleavage planes, no odor, no staining			
TD @ 4 feet bgs											


 ENSOLUM								Sample Name: PH05		Date: 01/25/23	
								Site Name: Ogden Substation Tank Overflow			
								Incident Number: NAPP2230983706			
								Job Number: 03C2012016			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: MR		Method: Backhoe	
Coordinates: 32.261866, -104.117304								Hole Diameter: NA		Total Depth: 4'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
						0					
M	26762	0.1	Y	SS05	0.5	0.5	CCHE	CALICHE, medium brown, subrounded grains, moist, stained, slight odor			
M	<173.6	0.3	N	PH05	1	1	CCHE	CALICHE, light/medium brown caliche with sand mixed in, poorly sorted, no staining, no odor			
M	<173.6	0.5	N	PH05A	2	2	SP	SAND, light/medium brown sand with caliche mixed in, poorly sorted, no staining, no odor			
M	<173.6	0.4	N			3	SC	Red/brown claystones with calcite, angular grains, cleavage planes, poorly sorted, no staining, no odor			
M	<173.6	0.4	N	PH05B	4	4	SC	SAA			
TD @ 4 feet bgs											
<div style="position: absolute; top: 0; right: 0; width: 100%; height: 100%; border-left: 2px solid black; border-bottom: 2px solid black;"></div>											

 ENSOLUM								Sample Name: PH06		Date: 01/25/23	
								Site Name: Ogden Substation Tank Overflow			
								Incident Number: NAPP2230983706			
								Job Number: 03C2012016			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: MR		Method: Backhoe	
Coordinates: 32.261866, -104.117304								Hole Diameter: NA		Total Depth: 4'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
						0					
M	12006	0.0	Y	SS06	0.5	0.5	CCHE	CALICHE, medium brown, subrounded grains, moist, stained, slight odor			
M	173.6	0.6	N	PH06	1	1	CCHE	SAA, slight odor, some silt			
M	<173.6	0.6	N	PH06A	2	2	CCHE	SAA			
M	<173.6	3.2	N			3	SP-SM	SAND, red/medium brown, minor claystones, sub-angular grains, poorly sorted, slight odor			
M	<173.6	0.5	N	PH06B	4	4	SC	Red-brown claystones with calcite, angular grains, poorly sorted, no odor, no staining			
TD @ 4 feet bgs											
<div style="position: absolute; top: 0; right: 0; width: 100%; height: 100%; border-left: 2px solid black; border-bottom: 2px solid black;"></div>											

 ENSOLUM								Sample Name: PH07		Date: 01/26/23	
								Site Name: Ogden Substation Tank Overflow			
								Incident Number: NAPP2230983706			
								Job Number: 03C2012016			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: MR		Method: Backhoe	
Coordinates: 32.261866, -104.117304								Hole Diameter: NA		Total Depth: 4'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
						0					
M	<162.4	0.0	N	SS07	0.5	0.5	SP-SM	SAND, medium/dark brown, poorly sorted, moist, no odor, no staining			
M	<173.6	0.1	N	PH07	1	1	SP-SM	SAA, but dark brown			
D	<173.6	0.3	N	PH07A	2	2	SP-SM	SAND, red/brown with claystones mixed in, sub-angular grains, poorly sorted, no staining, no odor			
D	<173.6	0.2	N	PH07B	4	4	SC	Red/pink claystones with calcite, angular grains, cleavage planes, no staining, no odor			
TD @ 4 feet bgs											

 ENSOLUM								Sample Name: PH08		Date: 01/26/23	
								Site Name: Ogden Substation Tank Overflow			
								Incident Number: NAPP2230983706			
								Job Number: 03C2012016			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: MR		Method: Backhoe	
Coordinates: 32.261866, -104.117304								Hole Diameter: NA		Total Depth: 4'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
M	<162.4	0.0	N	SS08	0.5	0	CCHE	CALICHE, medium brown, sand mixed in, poorly sorted, no odor, no staining, moist			
D	<173.6	0.1	N	PH08	1	1	SP-SM	SAND, red/brown, some caliche gravel mixed in, no staining, no odor			
D	<173.6	0.1	N	PH08A	2	2	SP-SM	SAA			
D	<173.6	0.2	N	PH08B	4	4	SC	Red claystones with calcite, angular grains, poorly sorted, no staining, no odor			
TD @ 4 feet bgs											

 ENSOLUM								Sample Name: PH09		Date: 01/26/23	
								Site Name: Ogden Substation Tank Overflow			
								Incident Number: NAPP2230983706			
								Job Number: 03C2012016			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: MR		Method: Backhoe	
Coordinates: 32.261866, -104.117304								Hole Diameter: NA		Total Depth: 4'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
M	543.2	0.0	N	SS09	0.5	0	CCHE	CALICHE, medium/dark brown, poorly sorted, subrounded grains, no staining, no odor			
D	526.4	0.2	N	PH09	1	1	SP-SM	SAND, red/brown, caliche gravel mixed in, poorly sorted, no odor, no staining			
D	280	0.1	N	PH09A	2	2	SP-SM	SAA, but dark brown			
D	470.4	0.0	N	PH09B	4	4	SP-SM	SAA			
TD @ 4 feet bgs											

 ENSOLUM								Sample Name: PH10		Date: 01/26/23	
								Site Name: Ogden Substation Tank Overflow			
								Incident Number: NAPP2230983706			
								Job Number: 03C2012016			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: MR		Method: Backhoe	
Coordinates: 32.261866, -104.117304								Hole Diameter: NA		Total Depth: 4'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
M	<162.4	0.0	N	SS10	0.5	0	SP-SM	SAND, dark brown, poorly sorted, subrounded grains, no staining, no odor			
D	<173.6	0.4	N	PH10	1	1	SP-SM	SAA			
D	<173.6	0.1	N	PH10A	2	2	SP-SM	SAA			
D	<173.6	0.0	N	PH10B	4	4	SP-SM	SAA, but with more caliche gravel mixed in			
TD @ 4 feet bgs											



APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



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

November 28, 2022

HADLIE GREEN

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: OGDEN SUBSTATION TANK OVERFLOW

Enclosed are the results of analyses for samples received by the laboratory on 11/21/22 14:42.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 11/21/2022
 Reported: 11/28/2022
 Project Name: OGDEN SUBSTATION TANK OVERFLOW
 Project Number: 03C2012016
 Project Location: BTA 32.261866,-104.117304

Sampling Date: 11/21/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: SS07 @ 0.5' (H225482-01)

BTX 8021B		mg/ kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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 BTX	<0.300	0.300	11/22/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	11/22/2022	ND	400	100	400	0.00		

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

Surrogate: 1-Chlorooctane 97.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 97.9 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 11/21/2022
 Reported: 11/28/2022
 Project Name: OGDEN SUBSTATION TANK OVERFLOW
 Project Number: 03C2012016
 Project Location: BTA 32.261866,-104.117304

Sampling Date: 11/21/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: SS08 @ 0.5' (H225482-02)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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) 86.4 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	11/22/2022	ND	400	100	400	0.00	

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

Surrogate: 1-Chlorooctane 91.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 92.1 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 11/21/2022
 Reported: 11/28/2022
 Project Name: OGDEN SUBSTATION TANK OVERFLOW
 Project Number: 03C2012016
 Project Location: BTA 32.261866,-104.117304

Sampling Date: 11/21/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: SS10 @ 0.5' (H225482-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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) 87.3 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	11/22/2022	ND	400	100	400	0.00		

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

Surrogate: 1-Chlorooctane 86.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 88.5 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

November 28, 2022

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

RE: OGDEN SUBSTATION TANK OVERFLOW

Enclosed are the results of analyses for samples received by the laboratory on 11/21/22 14:42.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 11/21/2022
 Reported: 11/28/2022
 Project Name: OGDEN SUBSTATION TANK OVERFLOW
 Project Number: 03C2012016
 Project Location: BTA 32.261866,-104.117304

Sampling Date: 11/21/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: SS01 @ 0.5' (H225483-01)

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	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) 88.9 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	12000	16.0	11/22/2022	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2022	ND	203	102	200	3.02	
DRO >C10-C28*	86.7	10.0	11/22/2022	ND	215	108	200	3.73	
EXT DRO >C28-C36	10.9	10.0	11/22/2022	ND					

Surrogate: 1-Chlorooctane 97.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 104 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 11/21/2022
 Reported: 11/28/2022
 Project Name: OGDEN SUBSTATION TANK OVERFLOW
 Project Number: 03C2012016
 Project Location: BTA 32.261866,-104.117304

Sampling Date: 11/21/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: SS02 @ 0.5' (H225483-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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) 86.5 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16000	16.0	11/22/2022	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2022	ND	203	102	200	3.02	
DRO >C10-C28*	165	10.0	11/22/2022	ND	215	108	200	3.73	
EXT DRO >C28-C36	20.4	10.0	11/22/2022	ND					

Surrogate: 1-Chlorooctane 93.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 101 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 11/21/2022
 Reported: 11/28/2022
 Project Name: OGDEN SUBSTATION TANK OVERFLOW
 Project Number: 03C2012016
 Project Location: BTA 32.261866,-104.117304

Sampling Date: 11/21/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: SS03 @ 0.5' (H225483-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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) 87.5 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	18600	16.0	11/22/2022	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2022	ND	203	102	200	3.02	
DRO >C10-C28*	125	10.0	11/22/2022	ND	215	108	200	3.73	
EXT DRO >C28-C36	20.5	10.0	11/22/2022	ND					

Surrogate: 1-Chlorooctane 98.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 106 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 11/21/2022
 Reported: 11/28/2022
 Project Name: OGDEN SUBSTATION TANK OVERFLOW
 Project Number: 03C2012016
 Project Location: BTA 32.261866,-104.117304

Sampling Date: 11/21/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: SS04 @ 0.5' (H225483-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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) 86.5 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	38000	16.0	11/22/2022	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2022	ND	202	101	200	3.24	
DRO >C10-C28*	348	10.0	11/22/2022	ND	199	99.4	200	0.00252	QM-07
EXT DRO >C28-C36	52.9	10.0	11/22/2022	ND					

Surrogate: 1-Chlorooctane 95.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 110 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 11/21/2022
 Reported: 11/28/2022
 Project Name: OGDEN SUBSTATION TANK OVERFLOW
 Project Number: 03C2012016
 Project Location: BTA 32.261866,-104.117304

Sampling Date: 11/21/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: SS05 @ 0.5' (H225483-05)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/23/2022	ND	1.92	96.0	2.00	7.81		
Toluene*	<0.050	0.050	11/23/2022	ND	2.16	108	2.00	9.03		
Ethylbenzene*	<0.050	0.050	11/23/2022	ND	1.96	97.8	2.00	7.29		
Total Xylenes*	<0.150	0.150	11/23/2022	ND	5.91	98.5	6.00	8.94		
Total BTEX	<0.300	0.300	11/23/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	17000	16.0	11/22/2022	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2022	ND	202	101	200	3.24	
DRO >C10-C28*	<10.0	10.0	11/22/2022	ND	199	99.4	200	0.00252	
EXT DRO >C28-C36	<10.0	10.0	11/22/2022	ND					

Surrogate: 1-Chlorooctane 105 % 45.3-161

Surrogate: 1-Chlorooctadecane 112 % 46.3-178

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 11/21/2022
 Reported: 11/28/2022
 Project Name: OGDEN SUBSTATION TANK OVERFLOW
 Project Number: 03C2012016
 Project Location: BTA 32.261866,-104.117304

Sampling Date: 11/21/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: SS06 @ 0.5' (H225483-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/23/2022	ND	1.92	96.0	2.00	7.81		
Toluene*	<0.050	0.050	11/23/2022	ND	2.16	108	2.00	9.03		
Ethylbenzene*	<0.050	0.050	11/23/2022	ND	1.96	97.8	2.00	7.29		
Total Xylenes*	<0.150	0.150	11/23/2022	ND	5.91	98.5	6.00	8.94		
Total BTEx	<0.300	0.300	11/23/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	12800	16.0	11/22/2022	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2022	ND	202	101	200	3.24	
DRO >C10-C28*	<10.0	10.0	11/22/2022	ND	199	99.4	200	0.00252	
EXT DRO >C28-C36	<10.0	10.0	11/22/2022	ND					

Surrogate: 1-Chlorooctane 103 % 45.3-161

Surrogate: 1-Chlorooctadecane 109 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

Caley D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum LLC Project Manager: Hadlie Green Address: 4122 Nat'l Parks Hwy City: Carlsbad State: NM Zip: 88220 Phone #: 432.557.8895 Fax #: Project #: Ogden Substation Tank Operations Project Name: 03C2012016 Project Location: 32.261866, -106.117304 Sampler Name: Meredith Roberts				P.O. #: Company: BTA CI Attn: Bob Hall Address: 104 S Pecos St City: Midland State: TX Zip: 79701 Phone #: 432.312.2203 Fax #:					
FOR LAB USE ONLY				BILL TO					
Lab I.D. 11935483		Sample I.D.		MATRIX		PRESERV		SAMPLING	
		(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :							
1 2 3 4 5 6 SS01 @ 0.5' SS02 SS03 SS04 SS05 SS06		1 1		X X X X X X		11/21/22 0915 0920 0925 0930 0935 0940		Chlorides BTEX TPH	
Relinquished By: <i>Freeborn</i> Date: 11/21/22 Time: 1442		Received By: <i>Bob Hall</i> Date: 11/21/22 Time:		Sample Condition Cool <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: <i>8/2</i> (Initials)		Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Bacteria (only) <input type="checkbox"/> Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Corrected Temp. °C	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. °C: 7.1 Corrected Temp. °C: 6.5		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:		All Results are emailed. Please provide Email address:		REMARKS: Incident #: 11935483 ngreen@ensolum.com tmonisse@ensolum.com 11/21/22 10:41:43	



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

November 28, 2022

HADLIE GREEN

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: OGDEN SUBSTATION TANK OVERFLOW

Enclosed are the results of analyses for samples received by the laboratory on 11/21/22 14:42.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 11/21/2022
 Reported: 11/28/2022
 Project Name: OGDEN SUBSTATION TANK OVERFLOW
 Project Number: 03C2012016
 Project Location: BTA 32.261866,-104.117304

Sampling Date: 11/21/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: SS09 @ 0.5' (H225484-01)

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	11/23/2022	ND	1.92	96.0	2.00	7.81		
Toluene*	<0.050	0.050	11/23/2022	ND	2.16	108	2.00	9.03		
Ethylbenzene*	<0.050	0.050	11/23/2022	ND	1.96	97.8	2.00	7.29		
Total Xylenes*	<0.150	0.150	11/23/2022	ND	5.91	98.5	6.00	8.94		
Total BTEx	<0.300	0.300	11/23/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	384	16.0	11/22/2022	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/22/2022	ND	202	101	200	3.24	
DRO >C10-C28*	<10.0	10.0	11/22/2022	ND	199	99.4	200	0.00252	
EXT DRO >C28-C36	<10.0	10.0	11/22/2022	ND					

Surrogate: 1-Chlorooctane 99.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 104 % 46.3-178

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

January 31, 2023

HADLIE GREEN

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: OGDEN SUBSTATION TANK OVERFLOW

Enclosed are the results of analyses for samples received by the laboratory on 01/26/23 13:04.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/26/2023
Reported: 01/31/2023
Project Name: OGDEN SUBSTATION TANK OVERFLOW
Project Number: 03C2012016
Project Location: 32.261866,-104.117304

Sampling Date: 01/25/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: PH 01 @ 1' (H230373-01)

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2023	ND	2.11	106	2.00	8.50	
Toluene*	<0.050	0.050	01/27/2023	ND	2.13	107	2.00	10.2	
Ethylbenzene*	<0.050	0.050	01/27/2023	ND	2.08	104	2.00	9.53	
Total Xylenes*	<0.150	0.150	01/27/2023	ND	6.22	104	6.00	8.78	
Total BTX	<0.300	0.300	01/27/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1940	16.0	01/27/2023	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	01/27/2023	ND	193	96.4	200	2.97	
DRO >C10-C28*	<10.0	10.0	01/27/2023	ND	216	108	200	2.02	
EXT DRO >C28-C36	<10.0	10.0	01/27/2023	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/26/2023
Reported: 01/31/2023
Project Name: OGDEN SUBSTATION TANK OVERFLOW
Project Number: 03C2012016
Project Location: 32.261866,-104.117304

Sampling Date: 01/25/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: PH 01 A @ 2' (H230373-02)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/27/2023	ND	2.11	106	2.00	8.50		
Toluene*	<0.050	0.050	01/27/2023	ND	2.13	107	2.00	10.2		
Ethylbenzene*	<0.050	0.050	01/27/2023	ND	2.08	104	2.00	9.53		
Total Xylenes*	<0.150	0.150	01/27/2023	ND	6.22	104	6.00	8.78		
Total BTX	<0.300	0.300	01/27/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2210	16.0	01/27/2023	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	01/27/2023	ND	193	96.4	200	2.97	
DRO >C10-C28*	23.8	10.0	01/27/2023	ND	216	108	200	2.02	
EXT DRO >C28-C36	<10.0	10.0	01/27/2023	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/26/2023
Reported: 01/31/2023
Project Name: OGDEN SUBSTATION TANK OVERFLOW
Project Number: 03C2012016
Project Location: 32.261866,-104.117304

Sampling Date: 01/25/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: PH 01 B @ 4' (H230373-03)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2023	ND	2.11	106	2.00	8.50	
Toluene*	<0.050	0.050	01/27/2023	ND	2.13	107	2.00	10.2	
Ethylbenzene*	<0.050	0.050	01/27/2023	ND	2.08	104	2.00	9.53	
Total Xylenes*	<0.150	0.150	01/27/2023	ND	6.22	104	6.00	8.78	
Total BTEx	<0.300	0.300	01/27/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	01/27/2023	ND	416	104	400	0.00	QM-07

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2023	ND	193	96.4	200	2.97	
DRO >C10-C28*	<10.0	10.0	01/27/2023	ND	216	108	200	2.02	
EXT DRO >C28-C36	<10.0	10.0	01/27/2023	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/26/2023
Reported: 01/31/2023
Project Name: OGDEN SUBSTATION TANK OVERFLOW
Project Number: 03C2012016
Project Location: 32.261866,-104.117304

Sampling Date: 01/25/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: PH 02 @ 1' (H230373-04)

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2023	ND	2.11	106	2.00	8.50	
Toluene*	<0.050	0.050	01/27/2023	ND	2.13	107	2.00	10.2	
Ethylbenzene*	<0.050	0.050	01/27/2023	ND	2.08	104	2.00	9.53	
Total Xylenes*	<0.150	0.150	01/27/2023	ND	6.22	104	6.00	8.78	
Total BTX	<0.300	0.300	01/27/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	848	16.0	01/27/2023	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	01/27/2023	ND	193	96.4	200	2.97	
DRO >C10-C28*	<10.0	10.0	01/27/2023	ND	216	108	200	2.02	
EXT DRO >C28-C36	<10.0	10.0	01/27/2023	ND					

Surrogate: 1-Chlorooctane 89.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/26/2023
Reported: 01/31/2023
Project Name: OGDEN SUBSTATION TANK OVERFLOW
Project Number: 03C2012016
Project Location: 32.261866,-104.117304

Sampling Date: 01/25/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: PH 02 A @ 2' (H230373-05)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/27/2023	ND	2.11	106	2.00	8.50		
Toluene*	<0.050	0.050	01/27/2023	ND	2.13	107	2.00	10.2		
Ethylbenzene*	<0.050	0.050	01/27/2023	ND	2.08	104	2.00	9.53		
Total Xylenes*	<0.150	0.150	01/27/2023	ND	6.22	104	6.00	8.78		
Total BTEx	<0.300	0.300	01/27/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	01/27/2023	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	01/27/2023	ND	193	96.4	200	2.97	
DRO >C10-C28*	<10.0	10.0	01/27/2023	ND	216	108	200	2.02	
EXT DRO >C28-C36	<10.0	10.0	01/27/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/26/2023
Reported: 01/31/2023
Project Name: OGDEN SUBSTATION TANK OVERFLOW
Project Number: 03C2012016
Project Location: 32.261866,-104.117304

Sampling Date: 01/25/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: PH 02 B @ 4' (H230373-06)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/27/2023	ND	2.11	106	2.00	8.50		
Toluene*	<0.050	0.050	01/27/2023	ND	2.13	107	2.00	10.2		
Ethylbenzene*	<0.050	0.050	01/27/2023	ND	2.08	104	2.00	9.53		
Total Xylenes*	<0.150	0.150	01/27/2023	ND	6.22	104	6.00	8.78		
Total BTEx	<0.300	0.300	01/27/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	01/27/2023	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	01/27/2023	ND	193	96.4	200	2.97	
DRO >C10-C28*	<10.0	10.0	01/27/2023	ND	216	108	200	2.02	
EXT DRO >C28-C36	<10.0	10.0	01/27/2023	ND					

Surrogate: 1-Chlorooctane 90.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/26/2023
Reported: 01/31/2023
Project Name: OGDEN SUBSTATION TANK OVERFLOW
Project Number: 03C2012016
Project Location: 32.261866,-104.117304

Sampling Date: 01/25/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: PH 03 @ 1' (H230373-07)

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2023	ND	2.11	106	2.00	8.50	
Toluene*	<0.050	0.050	01/27/2023	ND	2.13	107	2.00	10.2	
Ethylbenzene*	<0.050	0.050	01/27/2023	ND	2.08	104	2.00	9.53	
Total Xylenes*	<0.150	0.150	01/27/2023	ND	6.22	104	6.00	8.78	
Total BTX	<0.300	0.300	01/27/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1140	16.0	01/27/2023	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	01/27/2023	ND	193	96.4	200	2.97	
DRO >C10-C28*	<10.0	10.0	01/27/2023	ND	216	108	200	2.02	
EXT DRO >C28-C36	<10.0	10.0	01/27/2023	ND					

Surrogate: 1-Chlorooctane 90.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/26/2023
Reported: 01/31/2023
Project Name: OGDEN SUBSTATION TANK OVERFLOW
Project Number: 03C2012016
Project Location: 32.261866,-104.117304

Sampling Date: 01/25/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: PH 03 A @ 2' (H230373-08)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2023	ND	2.11	106	2.00	8.50	
Toluene*	<0.050	0.050	01/27/2023	ND	2.13	107	2.00	10.2	
Ethylbenzene*	<0.050	0.050	01/27/2023	ND	2.08	104	2.00	9.53	
Total Xylenes*	<0.150	0.150	01/27/2023	ND	6.22	104	6.00	8.78	
Total BTEX	<0.300	0.300	01/27/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	01/27/2023	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	01/27/2023	ND	206	103	200	1.02	
DRO >C10-C28*	<10.0	10.0	01/27/2023	ND	203	101	200	0.187	
EXT DRO >C28-C36	<10.0	10.0	01/27/2023	ND					

Surrogate: 1-Chlorooctane 83.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/26/2023
Reported: 01/31/2023
Project Name: OGDEN SUBSTATION TANK OVERFLOW
Project Number: 03C2012016
Project Location: 32.261866,-104.117304

Sampling Date: 01/25/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: PH 03 B @ 4' (H230373-09)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2023	ND	2.11	106	2.00	8.50	
Toluene*	<0.050	0.050	01/27/2023	ND	2.13	107	2.00	10.2	
Ethylbenzene*	<0.050	0.050	01/27/2023	ND	2.08	104	2.00	9.53	
Total Xylenes*	<0.150	0.150	01/27/2023	ND	6.22	104	6.00	8.78	
Total BTEx	<0.300	0.300	01/27/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	01/27/2023	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	01/27/2023	ND	206	103	200	1.02	QR-03
DRO >C10-C28*	<10.0	10.0	01/27/2023	ND	203	101	200	0.187	
EXT DRO >C28-C36	<10.0	10.0	01/27/2023	ND					

Surrogate: 1-Chlorooctane 116 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/26/2023
Reported: 01/31/2023
Project Name: OGDEN SUBSTATION TANK OVERFLOW
Project Number: 03C2012016
Project Location: 32.261866,-104.117304

Sampling Date: 01/25/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: PH 04 @ 1' (H230373-10)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2023	ND	2.11	106	2.00	8.50	
Toluene*	<0.050	0.050	01/27/2023	ND	2.13	107	2.00	10.2	
Ethylbenzene*	<0.050	0.050	01/27/2023	ND	2.08	104	2.00	9.53	
Total Xylenes*	<0.150	0.150	01/27/2023	ND	6.22	104	6.00	8.78	
Total BTEX	<0.300	0.300	01/27/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	592	16.0	01/27/2023	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	01/27/2023	ND	206	103	200	1.02	
DRO >C10-C28*	<10.0	10.0	01/27/2023	ND	203	101	200	0.187	
EXT DRO >C28-C36	<10.0	10.0	01/27/2023	ND					

Surrogate: 1-Chlorooctane 94.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/26/2023
Reported: 01/31/2023
Project Name: OGDEN SUBSTATION TANK OVERFLOW
Project Number: 03C2012016
Project Location: 32.261866,-104.117304

Sampling Date: 01/25/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: PH 04 A @ 2' (H230373-11)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/27/2023	ND	2.11	106	2.00	8.50		
Toluene*	<0.050	0.050	01/27/2023	ND	2.13	107	2.00	10.2		
Ethylbenzene*	<0.050	0.050	01/27/2023	ND	2.08	104	2.00	9.53		
Total Xylenes*	<0.150	0.150	01/27/2023	ND	6.22	104	6.00	8.78		
Total BTEx	<0.300	0.300	01/27/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	01/27/2023	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	01/27/2023	ND	206	103	200	1.02	
DRO >C10-C28*	<10.0	10.0	01/27/2023	ND	203	101	200	0.187	
EXT DRO >C28-C36	<10.0	10.0	01/27/2023	ND					

Surrogate: 1-Chlorooctane 95.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/26/2023
Reported: 01/31/2023
Project Name: OGDEN SUBSTATION TANK OVERFLOW
Project Number: 03C2012016
Project Location: 32.261866,-104.117304

Sampling Date: 01/25/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: PH 04 B @ 4' (H230373-12)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2023	ND	2.01	101	2.00	0.0393	
Toluene*	<0.050	0.050	01/27/2023	ND	2.16	108	2.00	0.880	
Ethylbenzene*	<0.050	0.050	01/27/2023	ND	2.09	105	2.00	0.157	
Total Xylenes*	<0.150	0.150	01/27/2023	ND	6.45	107	6.00	0.417	
Total BTX	<0.300	0.300	01/27/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	01/27/2023	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	01/27/2023	ND	206	103	200	1.02	
DRO >C10-C28*	<10.0	10.0	01/27/2023	ND	203	101	200	0.187	
EXT DRO >C28-C36	<10.0	10.0	01/27/2023	ND					

Surrogate: 1-Chlorooctane 94.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/26/2023
Reported: 01/31/2023
Project Name: OGDEN SUBSTATION TANK OVERFLOW
Project Number: 03C2012016
Project Location: 32.261866,-104.117304

Sampling Date: 01/25/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: PH 05 @ 1' (H230373-13)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/27/2023	ND	2.01	101	2.00	0.0393		
Toluene*	<0.050	0.050	01/27/2023	ND	2.16	108	2.00	0.880		
Ethylbenzene*	<0.050	0.050	01/27/2023	ND	2.09	105	2.00	0.157		
Total Xylenes*	<0.150	0.150	01/27/2023	ND	6.45	107	6.00	0.417		
Total BTEx	<0.300	0.300	01/27/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	01/27/2023	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	01/27/2023	ND	206	103	200	1.02	
DRO >C10-C28*	<10.0	10.0	01/27/2023	ND	203	101	200	0.187	
EXT DRO >C28-C36	<10.0	10.0	01/27/2023	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/26/2023
Reported: 01/31/2023
Project Name: OGDEN SUBSTATION TANK OVERFLOW
Project Number: 03C2012016
Project Location: 32.261866,-104.117304

Sampling Date: 01/25/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: PH 05 A @ 2' (H230373-14)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2023	ND	2.01	101	2.00	0.0393	
Toluene*	<0.050	0.050	01/27/2023	ND	2.16	108	2.00	0.880	
Ethylbenzene*	<0.050	0.050	01/27/2023	ND	2.09	105	2.00	0.157	
Total Xylenes*	<0.150	0.150	01/27/2023	ND	6.45	107	6.00	0.417	
Total BTEx	<0.300	0.300	01/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	01/27/2023	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	01/27/2023	ND	206	103	200	1.02	
DRO >C10-C28*	<10.0	10.0	01/27/2023	ND	203	101	200	0.187	
EXT DRO >C28-C36	<10.0	10.0	01/27/2023	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/26/2023
Reported: 01/31/2023
Project Name: OGDEN SUBSTATION TANK OVERFLOW
Project Number: 03C2012016
Project Location: 32.261866,-104.117304

Sampling Date: 01/25/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: PH 05 B @ 4' (H230373-15)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2023	ND	2.01	101	2.00	0.0393	
Toluene*	<0.050	0.050	01/27/2023	ND	2.16	108	2.00	0.880	
Ethylbenzene*	<0.050	0.050	01/27/2023	ND	2.09	105	2.00	0.157	
Total Xylenes*	<0.150	0.150	01/27/2023	ND	6.45	107	6.00	0.417	
Total BTEX	<0.300	0.300	01/27/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	01/27/2023	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	01/27/2023	ND	206	103	200	1.02	
DRO >C10-C28*	<10.0	10.0	01/27/2023	ND	203	101	200	0.187	
EXT DRO >C28-C36	<10.0	10.0	01/27/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/26/2023
Reported: 01/31/2023
Project Name: OGDEN SUBSTATION TANK OVERFLOW
Project Number: 03C2012016
Project Location: 32.261866,-104.117304

Sampling Date: 01/25/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: PH 06 @ 1' (H230373-16)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2023	ND	2.01	101	2.00	0.0393	
Toluene*	<0.050	0.050	01/27/2023	ND	2.16	108	2.00	0.880	
Ethylbenzene*	<0.050	0.050	01/27/2023	ND	2.09	105	2.00	0.157	
Total Xylenes*	<0.150	0.150	01/27/2023	ND	6.45	107	6.00	0.417	
Total BTEx	<0.300	0.300	01/27/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	01/27/2023	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	01/27/2023	ND	206	103	200	1.02	
DRO >C10-C28*	<10.0	10.0	01/27/2023	ND	203	101	200	0.187	
EXT DRO >C28-C36	<10.0	10.0	01/27/2023	ND					

Surrogate: 1-Chlorooctane 96.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/26/2023
Reported: 01/31/2023
Project Name: OGDEN SUBSTATION TANK OVERFLOW
Project Number: 03C2012016
Project Location: 32.261866,-104.117304

Sampling Date: 01/25/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: PH 06 A @ 2' (H230373-17)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2023	ND	2.01	101	2.00	0.0393	
Toluene*	<0.050	0.050	01/27/2023	ND	2.16	108	2.00	0.880	
Ethylbenzene*	<0.050	0.050	01/27/2023	ND	2.09	105	2.00	0.157	
Total Xylenes*	<0.150	0.150	01/27/2023	ND	6.45	107	6.00	0.417	
Total BTEx	<0.300	0.300	01/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 126 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	01/27/2023	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	01/27/2023	ND	206	103	200	1.02	
DRO >C10-C28*	<10.0	10.0	01/27/2023	ND	203	101	200	0.187	
EXT DRO >C28-C36	<10.0	10.0	01/27/2023	ND					

Surrogate: 1-Chlorooctane 119 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/26/2023
Reported: 01/31/2023
Project Name: OGDEN SUBSTATION TANK OVERFLOW
Project Number: 03C2012016
Project Location: 32.261866,-104.117304

Sampling Date: 01/25/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: PH 06 B @ 4' (H230373-18)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2023	ND	2.01	101	2.00	0.0393	
Toluene*	<0.050	0.050	01/27/2023	ND	2.16	108	2.00	0.880	
Ethylbenzene*	<0.050	0.050	01/27/2023	ND	2.09	105	2.00	0.157	
Total Xylenes*	<0.150	0.150	01/27/2023	ND	6.45	107	6.00	0.417	
Total BTEx	<0.300	0.300	01/27/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	01/27/2023	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	01/27/2023	ND	206	103	200	1.02	
DRO >C10-C28*	<10.0	10.0	01/27/2023	ND	203	101	200	0.187	
EXT DRO >C28-C36	<10.0	10.0	01/27/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/26/2023
Reported: 01/31/2023
Project Name: OGDEN SUBSTATION TANK OVERFLOW
Project Number: 03C2012016
Project Location: 32.261866,-104.117304

Sampling Date: 01/26/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: PH 07 @ 1' (H230373-19)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2023	ND	2.01	101	2.00	0.0393	
Toluene*	<0.050	0.050	01/27/2023	ND	2.16	108	2.00	0.880	
Ethylbenzene*	<0.050	0.050	01/27/2023	ND	2.09	105	2.00	0.157	
Total Xylenes*	<0.150	0.150	01/27/2023	ND	6.45	107	6.00	0.417	
Total BTX	<0.300	0.300	01/27/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/27/2023	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	01/27/2023	ND	206	103	200	1.02	
DRO >C10-C28*	<10.0	10.0	01/27/2023	ND	203	101	200	0.187	
EXT DRO >C28-C36	<10.0	10.0	01/27/2023	ND					

Surrogate: 1-Chlorooctane 116 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/26/2023
Reported: 01/31/2023
Project Name: OGDEN SUBSTATION TANK OVERFLOW
Project Number: 03C2012016
Project Location: 32.261866,-104.117304

Sampling Date: 01/26/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: PH 07 A @ 2' (H230373-20)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2023	ND	2.01	101	2.00	0.0393	
Toluene*	<0.050	0.050	01/27/2023	ND	2.16	108	2.00	0.880	
Ethylbenzene*	<0.050	0.050	01/27/2023	ND	2.09	105	2.00	0.157	
Total Xylenes*	<0.150	0.150	01/27/2023	ND	6.45	107	6.00	0.417	
Total BTEx	<0.300	0.300	01/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/27/2023	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	01/27/2023	ND	206	103	200	1.02	
DRO >C10-C28*	<10.0	10.0	01/27/2023	ND	203	101	200	0.187	
EXT DRO >C28-C36	<10.0	10.0	01/27/2023	ND					

Surrogate: 1-Chlorooctane 98.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/26/2023
Reported: 01/31/2023
Project Name: OGDEN SUBSTATION TANK OVERFLOW
Project Number: 03C2012016
Project Location: 32.261866,-104.117304

Sampling Date: 01/26/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: PH 07 B @ 4' (H230373-21)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2023	ND	2.01	101	2.00	0.0393	
Toluene*	<0.050	0.050	01/27/2023	ND	2.16	108	2.00	0.880	
Ethylbenzene*	<0.050	0.050	01/27/2023	ND	2.09	105	2.00	0.157	
Total Xylenes*	<0.150	0.150	01/27/2023	ND	6.45	107	6.00	0.417	
Total BTEx	<0.300	0.300	01/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	01/27/2023	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	01/27/2023	ND	206	103	200	1.02	
DRO >C10-C28*	<10.0	10.0	01/27/2023	ND	203	101	200	0.187	
EXT DRO >C28-C36	<10.0	10.0	01/27/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/26/2023
Reported: 01/31/2023
Project Name: OGDEN SUBSTATION TANK OVERFLOW
Project Number: 03C2012016
Project Location: 32.261866,-104.117304

Sampling Date: 01/26/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: PH 08 @ 1' (H230373-22)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2023	ND	2.01	101	2.00	0.0393	
Toluene*	<0.050	0.050	01/27/2023	ND	2.16	108	2.00	0.880	
Ethylbenzene*	<0.050	0.050	01/27/2023	ND	2.09	105	2.00	0.157	
Total Xylenes*	<0.150	0.150	01/27/2023	ND	6.45	107	6.00	0.417	
Total BTEX	<0.300	0.300	01/27/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/27/2023	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	01/27/2023	ND	206	103	200	1.02	
DRO >C10-C28*	<10.0	10.0	01/27/2023	ND	203	101	200	0.187	
EXT DRO >C28-C36	<10.0	10.0	01/27/2023	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/26/2023
Reported: 01/31/2023
Project Name: OGDEN SUBSTATION TANK OVERFLOW
Project Number: 03C2012016
Project Location: 32.261866,-104.117304

Sampling Date: 01/26/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: PH 08 A @ 2' (H230373-23)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2023	ND	2.01	101	2.00	0.0393	
Toluene*	<0.050	0.050	01/27/2023	ND	2.16	108	2.00	0.880	
Ethylbenzene*	<0.050	0.050	01/27/2023	ND	2.09	105	2.00	0.157	
Total Xylenes*	<0.150	0.150	01/27/2023	ND	6.45	107	6.00	0.417	
Total BTEx	<0.300	0.300	01/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	01/27/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2023	ND	206	103	200	1.02	
DRO >C10-C28*	<10.0	10.0	01/27/2023	ND	203	101	200	0.187	
EXT DRO >C28-C36	<10.0	10.0	01/27/2023	ND					

Surrogate: 1-Chlorooctane 122 % 48.2-134

Surrogate: 1-Chlorooctadecane 129 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/26/2023
Reported: 01/31/2023
Project Name: OGDEN SUBSTATION TANK OVERFLOW
Project Number: 03C2012016
Project Location: 32.261866,-104.117304

Sampling Date: 01/26/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: PH 08 B @ 4' (H230373-24)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2023	ND	2.01	101	2.00	0.0393	
Toluene*	<0.050	0.050	01/27/2023	ND	2.16	108	2.00	0.880	
Ethylbenzene*	<0.050	0.050	01/27/2023	ND	2.09	105	2.00	0.157	
Total Xylenes*	<0.150	0.150	01/27/2023	ND	6.45	107	6.00	0.417	
Total BTEx	<0.300	0.300	01/27/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	01/27/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2023	ND	206	103	200	1.02	
DRO >C10-C28*	<10.0	10.0	01/27/2023	ND	203	101	200	0.187	
EXT DRO >C28-C36	<10.0	10.0	01/27/2023	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/26/2023
Reported: 01/31/2023
Project Name: OGDEN SUBSTATION TANK OVERFLOW
Project Number: 03C2012016
Project Location: 32.261866,-104.117304

Sampling Date: 01/26/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: PH 09 @ 1' (H230373-25)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/26/2023	ND	2.02	101	2.00	0.982		
Toluene*	<0.050	0.050	01/26/2023	ND	2.08	104	2.00	0.394		
Ethylbenzene*	<0.050	0.050	01/26/2023	ND	2.11	105	2.00	1.88		
Total Xylenes*	<0.150	0.150	01/26/2023	ND	6.42	107	6.00	0.332		
Total BTEx	<0.300	0.300	01/26/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	576	16.0	01/27/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2023	ND	206	103	200	1.02	
DRO >C10-C28*	<10.0	10.0	01/27/2023	ND	203	101	200	0.187	
EXT DRO >C28-C36	<10.0	10.0	01/27/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/26/2023
Reported: 01/31/2023
Project Name: OGDEN SUBSTATION TANK OVERFLOW
Project Number: 03C2012016
Project Location: 32.261866,-104.117304

Sampling Date: 01/26/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: PH 09 A @ 2' (H230373-26)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/26/2023	ND	2.02	101	2.00	0.982		
Toluene*	<0.050	0.050	01/26/2023	ND	2.08	104	2.00	0.394		
Ethylbenzene*	<0.050	0.050	01/26/2023	ND	2.11	105	2.00	1.88		
Total Xylenes*	<0.150	0.150	01/26/2023	ND	6.42	107	6.00	0.332		
Total BTEx	<0.300	0.300	01/26/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	608	16.0	01/27/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2023	ND	206	103	200	1.02	
DRO >C10-C28*	<10.0	10.0	01/27/2023	ND	203	101	200	0.187	
EXT DRO >C28-C36	<10.0	10.0	01/27/2023	ND					

Surrogate: 1-Chlorooctane 97.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/26/2023
Reported: 01/31/2023
Project Name: OGDEN SUBSTATION TANK OVERFLOW
Project Number: 03C2012016
Project Location: 32.261866,-104.117304

Sampling Date: 01/26/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: PH 09 B @ 4' (H230373-27)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/26/2023	ND	2.02	101	2.00	0.982	
Toluene*	<0.050	0.050	01/26/2023	ND	2.08	104	2.00	0.394	
Ethylbenzene*	<0.050	0.050	01/26/2023	ND	2.11	105	2.00	1.88	
Total Xylenes*	<0.150	0.150	01/26/2023	ND	6.42	107	6.00	0.332	
Total BTEX	<0.300	0.300	01/26/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	640	16.0	01/27/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2023	ND	206	103	200	1.02	
DRO >C10-C28*	<10.0	10.0	01/27/2023	ND	203	101	200	0.187	
EXT DRO >C28-C36	<10.0	10.0	01/27/2023	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/26/2023
Reported: 01/31/2023
Project Name: OGDEN SUBSTATION TANK OVERFLOW
Project Number: 03C2012016
Project Location: 32.261866,-104.117304

Sampling Date: 01/26/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: PH 10 @ 1' (H230373-28)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/26/2023	ND	2.02	101	2.00	0.982		
Toluene*	<0.050	0.050	01/26/2023	ND	2.08	104	2.00	0.394		
Ethylbenzene*	<0.050	0.050	01/26/2023	ND	2.11	105	2.00	1.88		
Total Xylenes*	<0.150	0.150	01/26/2023	ND	6.42	107	6.00	0.332		
Total BTEx	<0.300	0.300	01/26/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	01/27/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2023	ND	211	105	200	6.84	
DRO >C10-C28*	<10.0	10.0	01/27/2023	ND	202	101	200	8.78	
EXT DRO >C28-C36	<10.0	10.0	01/27/2023	ND					

Surrogate: 1-Chlorooctane 89.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/26/2023
Reported: 01/31/2023
Project Name: OGDEN SUBSTATION TANK OVERFLOW
Project Number: 03C2012016
Project Location: 32.261866,-104.117304

Sampling Date: 01/26/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: PH 10 A @ 2' (H230373-29)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2023	ND	2.01	101	2.00	0.0393	
Toluene*	<0.050	0.050	01/27/2023	ND	2.16	108	2.00	0.880	
Ethylbenzene*	<0.050	0.050	01/27/2023	ND	2.09	105	2.00	0.157	
Total Xylenes*	<0.150	0.150	01/27/2023	ND	6.45	107	6.00	0.417	
Total BTEx	<0.300	0.300	01/27/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	01/27/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2023	ND	211	105	200	6.84	
DRO >C10-C28*	<10.0	10.0	01/27/2023	ND	202	101	200	8.78	
EXT DRO >C28-C36	<10.0	10.0	01/27/2023	ND					

Surrogate: 1-Chlorooctane 91.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/26/2023
Reported: 01/31/2023
Project Name: OGDEN SUBSTATION TANK OVERFLOW
Project Number: 03C2012016
Project Location: 32.261866,-104.117304

Sampling Date: 01/26/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: PH 10 B @ 4' (H230373-30)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2023	ND	2.01	101	2.00	0.0393	
Toluene*	<0.050	0.050	01/27/2023	ND	2.16	108	2.00	0.880	
Ethylbenzene*	<0.050	0.050	01/27/2023	ND	2.09	105	2.00	0.157	
Total Xylenes*	<0.150	0.150	01/27/2023	ND	6.45	107	6.00	0.417	
Total BTEx	<0.300	0.300	01/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	01/27/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2023	ND	211	105	200	6.84	
DRO >C10-C28*	<10.0	10.0	01/27/2023	ND	202	101	200	8.78	
EXT DRO >C28-C36	<10.0	10.0	01/27/2023	ND					

Surrogate: 1-Chlorooctane 82.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.3 % 49.1-148

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*=Accredited Analyte

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Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 3

Company Name: Ensolum, LLC				P.O. #:				BILL TO				ANALYSIS REQUEST			
Project Manager: Hadlie Green				Company: BTA Oil											
Address: 3122 Nat'l Parks Highway				Attn: Bob Hall											
City: Carlsbad				Address: 104 S. Peas St											
State: NM Zip: 88220															
Phone #: 432-557-8895 Fax #:															
Project #: 03C2012016 Project Owner:															
Project Name: Ogden Substation Tank Overflow				City: Midland											
Project Location: 32-261866, -104.117304				State: TX Zip: 79701											
Sampler Name: Meredith Roberts				Phone #: 432-312-2203											
FOR LAB USE ONLY				Fax #:											
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX		PRESERV.		SAMPLING			
								GROUNDWATER							
								WASTEWATER							
								SOIL							
								OIL							
								SLUDGE							
								OTHER :							
								ACID/BASE:							
								ICE / COOL							
								OTHER :							
								DATE							
								TIME							
HA30373		PH01		1'		1		1/25/23		1020		X BTEX			
1		PH01A		2'		1		1035		1045		X Chlorides			
2		PH01B		1'		1		1045		1410		X TPH			
3		PH02		2'		1		1050		1415					
4		PH02A		1'		1		1100		1435					
5		PH02B		2'		1		1100		1435					
6		PH03		1'		1		1100		1435					
7		PH03A		2'		1		1100		1435					
8		PH03B		1'		1		1100		1435					
9		PH04		1'		1		1100		1435					
10															
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Relinquished By: <i>frederick</i>				Date: 11/26/23				Received By: <i>frederick</i>				REMARKS: <i>tmorris@ensolum.com</i>			
Relinquished By:				Date:				Received By:				Incident #: <i>HA303730983706</i>			
Time: 1304				Time:				Time:				Standard <i>131M12: 2.3i</i>			
Delivered By: (Circle One)				Observed Temp. °C <i>4.7i</i>				Sample Condition <i>Yes</i>				CHECKED BY: <i>frederick</i>			
Corrected Temp. °C <i>4.1i</i>				Cool Intact <i>Yes</i>				Bacteria (only) <i>Yes</i>				Sample Condition <i>Yes</i>			
Sampler - UPS - Bus - Other:				Thermometer ID #113				Cool Intact <i>Yes</i>				Observed Temp. °C			
				Correction Factor -0.5°C				Cool Intact <i>Yes</i>				Corrected Temp. °C			

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



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 2 of 3

Company Name: Ensolum, LLC		P.O. #:		BILL TO		ANALYSIS REQUEST																																	
Project Manager: Hadlie Green		Company: BTA Oil																																					
Address: 3122 Nat'l Parks Hwy		Attn: Bob Hall																																					
City: Carlsbad		Address: 104 S. Pecos St																																					
State: NM		City: Midland																																					
Zip: 88220		State: TX																																					
Phone #: 432-557-8895		Zip: 79701																																					
Fax #: 		Phone #: 432-312-2203																																					
Project #: 03C2012016		Fax #: 																																					
Project Name: Dogden Substation Tank Overflow																																							
Project Location: 32.261866, -104.117304																																							
Sampler Name: Meredith Roberts																																							
FOR LAB USE ONLY																																							
Lab I.D.		Sample I.D.																																					
11/23/2023		PH04A @ 2'		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME		BTEX		Chlorides		TPH					
12		PH04B		4'		1		X																		1/25/23		1240		X		X		X					
13		PH05		1'		1		X																		1/25/23		1335		X		X		X					
14		PH05A		2'		1		X																		1/25/23		1340		X		X		X					
15		PH05B		4'		1		X																		1/25/23		1350		X		X		X					
16		PH06		1'		1		X																		1/25/23		1305		X		X		X					
17		PH06A		2'		1		X																		1/25/23		1310		X		X		X					
18		PH06B		4'		1		X																		1/25/23		1320		X		X		X					
19		PH07		1'		1		X																		1/25/23		1010		X		X		X					
20		PH07A		2'		1		X																		1/25/23		1015		X		X		X					
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Relinquished By: Hadlie Green		Date: 1/26/23		Received By: Speckiequely		Date: 1/26/23		Time: 1304		Observed Temp. °C: 4.7		Corrected Temp. °C: 4.1		Sample Condition: Intact		CHECKED BY: (Initials)		Turnaround Time: Standard		Thermometer ID: #113		Correction Factor: -0.6°C		Bacteria (only) Sample Condition: Intact		Observed Temp. °C: 		Corrected Temp. °C: 		Remarks: Incident #: NAPP2230983706		All Results are emailed. Please provide Email address: tmorris@ensolum.com		Verbal Result: Yes		Add'l Phone #: 			



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

October 26, 2023

HADLIE GREEN

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: OGDEN SUBSTATION TANK OVERFLOW

Enclosed are the results of analyses for samples received by the laboratory on 10/23/23 8:26.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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Analytical Results For:

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

Received:	10/23/2023	Sampling Date:	10/19/2023
Reported:	10/26/2023	Sampling Type:	Soil
Project Name:	OGDEN SUBSTATION TANK OVERFLOW	Sampling Condition:	Cool & Intact
Project Number:	03C2012016	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.26246,-104.11690		

Sample ID: FS 01 @ 1' (H235779-01)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/26/2023	ND	2.01	101	2.00	0.500		
Toluene*	<0.050	0.050	10/26/2023	ND	2.09	104	2.00	1.04		
Ethylbenzene*	<0.050	0.050	10/26/2023	ND	2.29	115	2.00	2.13		
Total Xylenes*	<0.150	0.150	10/26/2023	ND	6.99	117	6.00	2.58		
Total BTX	<0.300	0.300	10/26/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	10/25/2023	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	10/24/2023	ND	227	114	200	2.87	
DRO >C10-C28*	<10.0	10.0	10/24/2023	ND	237	119	200	5.04	
EXT DRO >C28-C36	<10.0	10.0	10/24/2023	ND					

Surrogate: 1-Chlorooctane 87.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/23/2023
Reported: 10/26/2023
Project Name: OGDEN SUBSTATION TANK OVERFLOW
Project Number: 03C2012016
Project Location: BTA 32.26246,-104.11690

Sampling Date: 10/19/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 02 @ 1' (H235779-02)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/26/2023	ND	2.01	101	2.00	0.500	
Toluene*	<0.050	0.050	10/26/2023	ND	2.09	104	2.00	1.04	
Ethylbenzene*	<0.050	0.050	10/26/2023	ND	2.29	115	2.00	2.13	
Total Xylenes*	<0.150	0.150	10/26/2023	ND	6.99	117	6.00	2.58	
Total BTEx	<0.300	0.300	10/26/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/25/2023	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	10/24/2023	ND	227	114	200	2.87	
DRO >C10-C28*	<10.0	10.0	10/24/2023	ND	237	119	200	5.04	
EXT DRO >C28-C36	<10.0	10.0	10/24/2023	ND					

Surrogate: 1-Chlorooctane 79.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/23/2023
Reported: 10/26/2023
Project Name: OGDEN SUBSTATION TANK OVERFLOW
Project Number: 03C2012016
Project Location: BTA 32.26246,-104.11690

Sampling Date: 10/19/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 03 @ 1' (H235779-03)

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2023	ND	1.88	93.9	2.00	3.61	
Toluene*	<0.050	0.050	10/25/2023	ND	2.01	100	2.00	0.725	
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.03	102	2.00	0.559	
Total Xylenes*	<0.150	0.150	10/25/2023	ND	6.21	104	6.00	0.173	
Total BTX	<0.300	0.300	10/25/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/25/2023	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	10/24/2023	ND	227	114	200	2.87	
DRO >C10-C28*	<10.0	10.0	10/24/2023	ND	237	119	200	5.04	
EXT DRO >C28-C36	<10.0	10.0	10/24/2023	ND					

Surrogate: 1-Chlorooctane 68.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/23/2023
Reported: 10/26/2023
Project Name: OGDEN SUBSTATION TANK OVERFLOW
Project Number: 03C2012016
Project Location: BTA 32.26246,-104.11690

Sampling Date: 10/19/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 04 @ 1' (H235779-04)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2023	ND	1.88	93.9	2.00	3.61	
Toluene*	<0.050	0.050	10/25/2023	ND	2.01	100	2.00	0.725	
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.03	102	2.00	0.559	
Total Xylenes*	<0.150	0.150	10/25/2023	ND	6.21	104	6.00	0.173	
Total BTEx	<0.300	0.300	10/25/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	10/25/2023	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	10/24/2023	ND	173	86.6	200	4.76	
DRO >C10-C28*	<10.0	10.0	10/24/2023	ND	164	81.9	200	10.2	
EXT DRO >C28-C36	<10.0	10.0	10/24/2023	ND					

Surrogate: 1-Chlorooctane 67.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 67.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/23/2023
Reported: 10/26/2023
Project Name: OGDEN SUBSTATION TANK OVERFLOW
Project Number: 03C2012016
Project Location: BTA 32.26246,-104.11690

Sampling Date: 10/19/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 05 @ 1' (H235779-05)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2023	ND	1.88	93.9	2.00	3.61	
Toluene*	<0.050	0.050	10/25/2023	ND	2.01	100	2.00	0.725	
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.03	102	2.00	0.559	
Total Xylenes*	<0.150	0.150	10/25/2023	ND	6.21	104	6.00	0.173	
Total BTEx	<0.300	0.300	10/25/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	10/25/2023	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	10/24/2023	ND	173	86.6	200	4.76	
DRO >C10-C28*	<10.0	10.0	10/24/2023	ND	164	81.9	200	10.2	
EXT DRO >C28-C36	<10.0	10.0	10/24/2023	ND					

Surrogate: 1-Chlorooctane 73.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/23/2023
Reported: 10/26/2023
Project Name: OGDEN SUBSTATION TANK OVERFLOW
Project Number: 03C2012016
Project Location: BTA 32.26246,-104.11690

Sampling Date: 10/19/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 06 @ 1' (H235779-06)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/25/2023	ND	1.88	93.9	2.00	3.61		
Toluene*	<0.050	0.050	10/25/2023	ND	2.01	100	2.00	0.725		
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.03	102	2.00	0.559		
Total Xylenes*	<0.150	0.150	10/25/2023	ND	6.21	104	6.00	0.173		
Total BTEx	<0.300	0.300	10/25/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	10/25/2023	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	10/24/2023	ND	173	86.6	200	4.76	
DRO >C10-C28*	<10.0	10.0	10/24/2023	ND	164	81.9	200	10.2	
EXT DRO >C28-C36	<10.0	10.0	10/24/2023	ND					

Surrogate: 1-Chlorooctane 62.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 62.1 % 49.1-148

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Analytical Results For:

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

Received: 10/23/2023
Reported: 10/26/2023
Project Name: OGDEN SUBSTATION TANK OVERFLOW
Project Number: 03C2012016
Project Location: BTA 32.26246,-104.11690

Sampling Date: 10/19/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 07 @ 1' (H235779-07)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/25/2023	ND	1.88	93.9	2.00	3.61		
Toluene*	<0.050	0.050	10/25/2023	ND	2.01	100	2.00	0.725		
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.03	102	2.00	0.559		
Total Xylenes*	<0.150	0.150	10/25/2023	ND	6.21	104	6.00	0.173		
Total BTEx	<0.300	0.300	10/25/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	10/25/2023	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	10/24/2023	ND	173	86.6	200	4.76	
DRO >C10-C28*	<10.0	10.0	10/24/2023	ND	164	81.9	200	10.2	
EXT DRO >C28-C36	<10.0	10.0	10/24/2023	ND					

Surrogate: 1-Chlorooctane 71.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.8 % 49.1-148

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Analytical Results For:

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

Received: 10/23/2023
Reported: 10/26/2023
Project Name: OGDEN SUBSTATION TANK OVERFLOW
Project Number: 03C2012016
Project Location: BTA 32.26246,-104.11690

Sampling Date: 10/20/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 08 @ 2' (H235779-08)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2023	ND	1.88	93.9	2.00	3.61	
Toluene*	<0.050	0.050	10/25/2023	ND	2.01	100	2.00	0.725	
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.03	102	2.00	0.559	
Total Xylenes*	<0.150	0.150	10/25/2023	ND	6.21	104	6.00	0.173	
Total BTEx	<0.300	0.300	10/25/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	10/25/2023	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	10/24/2023	ND	173	86.6	200	4.76	
DRO >C10-C28*	<10.0	10.0	10/24/2023	ND	164	81.9	200	10.2	
EXT DRO >C28-C36	<10.0	10.0	10/24/2023	ND					

Surrogate: 1-Chlorooctane 73.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/23/2023
Reported: 10/26/2023
Project Name: OGDEN SUBSTATION TANK OVERFLOW
Project Number: 03C2012016
Project Location: BTA 32.26246,-104.11690

Sampling Date: 10/20/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 09 @ 2' (H235779-09)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/25/2023	ND	1.88	93.9	2.00	3.61		
Toluene*	<0.050	0.050	10/25/2023	ND	2.01	100	2.00	0.725		
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.03	102	2.00	0.559		
Total Xylenes*	<0.150	0.150	10/25/2023	ND	6.21	104	6.00	0.173		
Total BTEx	<0.300	0.300	10/25/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	432	16.0	10/25/2023	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	10/24/2023	ND	173	86.6	200	4.76	
DRO >C10-C28*	<10.0	10.0	10/24/2023	ND	164	81.9	200	10.2	
EXT DRO >C28-C36	<10.0	10.0	10/24/2023	ND					

Surrogate: 1-Chlorooctane 75.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.4 % 49.1-148

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Analytical Results For:

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

Received: 10/23/2023
Reported: 10/26/2023
Project Name: OGDEN SUBSTATION TANK OVERFLOW
Project Number: 03C2012016
Project Location: BTA 32.26246,-104.11690

Sampling Date: 10/20/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 10 @ 1' (H235779-10)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/25/2023	ND	1.88	93.9	2.00	3.61		
Toluene*	<0.050	0.050	10/25/2023	ND	2.01	100	2.00	0.725		
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.03	102	2.00	0.559		
Total Xylenes*	<0.150	0.150	10/25/2023	ND	6.21	104	6.00	0.173		
Total BTEx	<0.300	0.300	10/25/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/25/2023	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	10/24/2023	ND	173	86.6	200	4.76	
DRO >C10-C28*	<10.0	10.0	10/24/2023	ND	164	81.9	200	10.2	
EXT DRO >C28-C36	<10.0	10.0	10/24/2023	ND					

Surrogate: 1-Chlorooctane 68.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 69.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/23/2023
Reported: 10/26/2023
Project Name: OGDEN SUBSTATION TANK OVERFLOW
Project Number: 03C2012016
Project Location: BTA 32.26246,-104.11690

Sampling Date: 10/20/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 11 @ 1' (H235779-11)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2023	ND	1.88	93.9	2.00	3.61	
Toluene*	<0.050	0.050	10/25/2023	ND	2.01	100	2.00	0.725	
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.03	102	2.00	0.559	
Total Xylenes*	<0.150	0.150	10/25/2023	ND	6.21	104	6.00	0.173	
Total BTEx	<0.300	0.300	10/25/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	10/25/2023	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	10/24/2023	ND	173	86.6	200	4.76	
DRO >C10-C28*	<10.0	10.0	10/24/2023	ND	164	81.9	200	10.2	
EXT DRO >C28-C36	<10.0	10.0	10/24/2023	ND					

Surrogate: 1-Chlorooctane 68.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 67.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/23/2023
Reported: 10/26/2023
Project Name: OGDEN SUBSTATION TANK OVERFLOW
Project Number: 03C2012016
Project Location: BTA 32.26246,-104.11690

Sampling Date: 10/20/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 12 @ 1' (H235779-12)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/25/2023	ND	1.88	93.9	2.00	3.61		
Toluene*	<0.050	0.050	10/25/2023	ND	2.01	100	2.00	0.725		
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.03	102	2.00	0.559		
Total Xylenes*	<0.150	0.150	10/25/2023	ND	6.21	104	6.00	0.173		
Total BTEx	<0.300	0.300	10/25/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/25/2023	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	10/24/2023	ND	173	86.6	200	4.76	
DRO >C10-C28*	<10.0	10.0	10/24/2023	ND	164	81.9	200	10.2	
EXT DRO >C28-C36	<10.0	10.0	10/24/2023	ND					

Surrogate: 1-Chlorooctane 69.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.0 % 49.1-148

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Analytical Results For:

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

Received: 10/23/2023
Reported: 10/26/2023
Project Name: OGDEN SUBSTATION TANK OVERFLOW
Project Number: 03C2012016
Project Location: BTA 32.26246,-104.11690

Sampling Date: 10/20/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 13 @ 1' (H235779-13)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/25/2023	ND	1.88	93.9	2.00	3.61		
Toluene*	<0.050	0.050	10/25/2023	ND	2.01	100	2.00	0.725		
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.03	102	2.00	0.559		
Total Xylenes*	<0.150	0.150	10/25/2023	ND	6.21	104	6.00	0.173		
Total BTEx	<0.300	0.300	10/25/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	10/25/2023	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	10/24/2023	ND	173	86.6	200	4.76	
DRO >C10-C28*	<10.0	10.0	10/24/2023	ND	164	81.9	200	10.2	
EXT DRO >C28-C36	<10.0	10.0	10/24/2023	ND					

Surrogate: 1-Chlorooctane 66.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 64.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 10/23/2023
Reported: 10/26/2023
Project Name: OGDEN SUBSTATION TANK OVERFLOW
Project Number: 03C2012016
Project Location: BTA 32.26246,-104.11690

Sampling Date: 10/20/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW 01 @ 0-1' (H235779-14)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/25/2023	ND	1.88	93.9	2.00	3.61		
Toluene*	<0.050	0.050	10/25/2023	ND	2.01	100	2.00	0.725		
Ethylbenzene*	<0.050	0.050	10/25/2023	ND	2.03	102	2.00	0.559		
Total Xylenes*	<0.150	0.150	10/25/2023	ND	6.21	104	6.00	0.173		
Total BTEx	<0.300	0.300	10/25/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	10/25/2023	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	10/24/2023	ND	173	86.6	200	4.76	
DRO >C10-C28*	<10.0	10.0	10/24/2023	ND	164	81.9	200	10.2	
EXT DRO >C28-C36	<10.0	10.0	10/24/2023	ND					

Surrogate: 1-Chlorooctane 69.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 67.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager



Company Name: Ansolum LLC
Project Manager: Paula Lopez

[illegible]

City: your space State: NY Zip: 10001

Project #:	180907016	Project Owner:	
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Project location: 29001191-1011

Scientific name: *Melospiza albicollis*

FOR LAB USE ONLY	5
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Lab I.D. _____ Sample I.D. _____

	1635119	(G)
	163507	(G)

1507 607	1507 607
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5-11-12

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types. All claims including those for negligence and any other cause whatsoever shall be deemed waived, in no event shall Cardinal be liable for incidental or consequential damages including without limitation, lost profits.

types or successors arising out of or related to the performance of services hereunder by Cardinal ne-

Date: 10-23-23

Time: 2:47

Relinquished By: <i>[Signature]</i>	Date: <i>[Signature]</i>	Received By: <i>[Signature]</i>
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10-23-23

0824

Delivered By: (Circle One)	Observed Temp. °C 27
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FORM NO. S-2 (10/1/71)

† Cardinal cannot a

Page 17 of 18



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>WESLUM LLC</u>		P.O. #:		ANALYSIS REQUEST															
Project Manager: <u>HADIE GREER</u>		Company: <u>BTA OIL</u>																	
Address: <u>6420 Bart Parks Hwy</u>		Attn: <u>Walter Beard</u>																	
City: <u>Los Alamos</u>		Address: <u>1415 S. 5th St</u>																	
State: <u>NM</u>		City: <u>Middleburg</u>																	
Zip: <u>88720</u>		State: <u>TX</u>																	
Phone #: <u>432-551-8805</u>		Zip: <u>79701</u>																	
Fax #: <u></u>		Phone #: <u></u>																	
Project #: <u>032012016</u>		Project Owner: <u>BTA</u>																	
Project Name: <u>Dohen Substation Tank Overhaul</u>		Sample Name: <u>WILKINA FALCONADO</u>																	
Project Location: <u>35,20405 (DRIKAD)</u>		Matrix:																	
Sample Name: <u>WILKINA FALCONADO</u>		PRESERV:																	
FOR LAB USE ONLY		SAMPLING																	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	REMARKS	Verbal Result:	Add'l Phone #:		
<u>H235779</u>	<u>FS11 @ 1' (FS11)</u>	<u>X</u>	<u>1</u>	<u>X</u>									<u>10/20/23</u>	<u>0805</u>	<u>X</u>	<u>BTEX</u>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
<u>11</u>	<u>FS11 @ 1' (FS11)</u>	<u>X</u>	<u>1</u>	<u>X</u>									<u>10/20/23</u>	<u>0810</u>	<u>X</u>	<u>TPL</u>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
<u>12</u>	<u>FS11 @ 1' (FS12)</u>	<u>X</u>	<u>1</u>	<u>X</u>									<u>10/20/23</u>	<u>0815</u>	<u>X</u>	<u>Chlorides</u>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
<u>13</u>	<u>FS11 @ 1' (FS13)</u>	<u>X</u>	<u>1</u>	<u>X</u>									<u>10/20/23</u>	<u>0820</u>	<u>X</u>		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
<u>14</u>	<u>SDD1 @ 0-1'</u>	<u>X</u>	<u>1</u>	<u>X</u>									<u>10/20/23</u>	<u>0820</u>	<u>X</u>		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
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Relinquished By: <u>[Signature]</u>		Date: <u>10-23-23</u>		Received By: <u>[Signature]</u>		Date: <u>10-23-23</u>		Time: <u>0845</u>		Time: <u>0845</u>		Time: <u>0845</u>		Time: <u>0845</u>		Time: <u>0845</u>		Time: <u>0845</u>	
Relinquished By: <u>[Signature]</u>		Date: <u>10-23-23</u>		Received By: <u>[Signature]</u>		Date: <u>10-23-23</u>		Time: <u>0845</u>		Time: <u>0845</u>		Time: <u>0845</u>		Time: <u>0845</u>		Time: <u>0845</u>		Time: <u>0845</u>	
Delivered By: (Circle One)		Observed Temp. °C		Corrected Temp. °C		Sample Condition		Cool Intact		Cool Intact		Cool Intact		Cool Intact		Cool Intact		Cool Intact	
Sampler - UPS - Bus - Other:		Observed Temp. °C		Corrected Temp. °C		Sample Condition		Cool Intact		Cool Intact		Cool Intact		Cool Intact		Cool Intact		Cool Intact	
Turnaround Time: <u>Standard</u>		Thermometer ID: <u>#113</u>		Correction Factor: <u>0.00</u>		Bacteria (only)		Cool Intact		Cool Intact		Cool Intact		Cool Intact		Cool Intact		Cool Intact	
Turnaround Time: <u>Standard</u>		Thermometer ID: <u>#113</u>		Correction Factor: <u>0.00</u>		Bacteria (only)		Cool Intact		Cool Intact		Cool Intact		Cool Intact		Cool Intact		Cool Intact	
Turnaround Time: <u>Standard</u>		Thermometer ID: <u>#113</u>		Correction Factor: <u>0.00</u>		Bacteria (only)		Cool Intact		Cool Intact		Cool Intact		Cool Intact		Cool Intact		Cool Intact	



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

November 02, 2023

HADLIE GREEN

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: OGDEN SUBSTATION TANK OVERFLOW

Enclosed are the results of analyses for samples received by the laboratory on 10/26/23 14:00.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Mike Snyder". The signature is fluid and cursive, with the first name "Mike" and last name "Snyder" clearly distinguishable.

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 10/26/2023
Reported: 11/02/2023
Project Name: OGDEN SUBSTATION TANK OVERFLOW
Project Number: 03C2012016
Project Location: BTA 32.26246,-104.11690

Sampling Date: 10/23/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 15 @ 1' (H235870-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/31/2023	ND	1.96	98.1	2.00	2.55	
Toluene*	<0.050	0.050	10/31/2023	ND	2.02	101	2.00	2.49	
Ethylbenzene*	<0.050	0.050	10/31/2023	ND	2.02	101	2.00	2.82	
Total Xylenes*	<0.150	0.150	10/31/2023	ND	6.07	101	6.00	3.11	
Total BTX	<0.300	0.300	10/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	10/31/2023	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	10/30/2023	ND	183	91.6	200	1.96	
DRO >C10-C28*	<10.0	10.0	10/30/2023	ND	170	84.8	200	7.24	
EXT DRO >C28-C36	<10.0	10.0	10/30/2023	ND					

Surrogate: 1-Chlorooctane 84.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.0 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 10/26/2023
Reported: 11/02/2023
Project Name: OGDEN SUBSTATION TANK OVERFLOW
Project Number: 03C2012016
Project Location: BTA 32.26246,-104.11690

Sampling Date: 10/23/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 16 @ 1' (H235870-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/31/2023	ND	1.96	98.1	2.00	2.55		
Toluene*	<0.050	0.050	10/31/2023	ND	2.02	101	2.00	2.49		
Ethylbenzene*	<0.050	0.050	10/31/2023	ND	2.02	101	2.00	2.82		
Total Xylenes*	<0.150	0.150	10/31/2023	ND	6.07	101	6.00	3.11		
Total BTEx	<0.300	0.300	10/31/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	10/31/2023	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	10/30/2023	ND	183	91.6	200	1.96	
DRO >C10-C28*	<10.0	10.0	10/30/2023	ND	170	84.8	200	7.24	
EXT DRO >C28-C36	<10.0	10.0	10/30/2023	ND					

Surrogate: 1-Chlorooctane 68.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 60.6 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 10/26/2023
Reported: 11/02/2023
Project Name: OGDEN SUBSTATION TANK OVERFLOW
Project Number: 03C2012016
Project Location: BTA 32.26246,-104.11690

Sampling Date: 10/23/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 17 @ 1' (H235870-03)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/31/2023	ND	1.96	98.1	2.00	2.55	
Toluene*	<0.050	0.050	10/31/2023	ND	2.02	101	2.00	2.49	
Ethylbenzene*	<0.050	0.050	10/31/2023	ND	2.02	101	2.00	2.82	
Total Xylenes*	<0.150	0.150	10/31/2023	ND	6.07	101	6.00	3.11	
Total BTX	<0.300	0.300	10/31/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	10/31/2023	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	10/30/2023	ND	183	91.6	200	1.96	
DRO >C10-C28*	<10.0	10.0	10/30/2023	ND	170	84.8	200	7.24	
EXT DRO >C28-C36	<10.0	10.0	10/30/2023	ND					

Surrogate: 1-Chlorooctane 64.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 58.3 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 10/26/2023
Reported: 11/02/2023
Project Name: OGDEN SUBSTATION TANK OVERFLOW
Project Number: 03C2012016
Project Location: BTA 32.26246,-104.11690

Sampling Date: 10/23/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 18 @ 1' (H235870-04)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/31/2023	ND	1.96	98.1	2.00	2.55	
Toluene*	<0.050	0.050	10/31/2023	ND	2.02	101	2.00	2.49	
Ethylbenzene*	<0.050	0.050	10/31/2023	ND	2.02	101	2.00	2.82	
Total Xylenes*	<0.150	0.150	10/31/2023	ND	6.07	101	6.00	3.11	
Total BTX	<0.300	0.300	10/31/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	10/31/2023	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	10/30/2023	ND	183	91.6	200	1.96	
DRO >C10-C28*	<10.0	10.0	10/30/2023	ND	170	84.8	200	7.24	
EXT DRO >C28-C36	<10.0	10.0	10/30/2023	ND					

Surrogate: 1-Chlorooctane 81.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.4 % 49.1-148

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Analytical Results For:

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

Received: 10/26/2023
Reported: 11/02/2023
Project Name: OGDEN SUBSTATION TANK OVERFLOW
Project Number: 03C2012016
Project Location: BTA 32.26246,-104.11690

Sampling Date: 10/23/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW 02 @ 0-1' (H235870-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/31/2023	ND	1.96	98.1	2.00	2.55		
Toluene*	<0.050	0.050	10/31/2023	ND	2.02	101	2.00	2.49		
Ethylbenzene*	<0.050	0.050	10/31/2023	ND	2.02	101	2.00	2.82		
Total Xylenes*	<0.150	0.150	10/31/2023	ND	6.07	101	6.00	3.11		
Total BTEx	<0.300	0.300	10/31/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	10/31/2023	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	10/30/2023	ND	183	91.6	200	1.96	
DRO >C10-C28*	<10.0	10.0	10/30/2023	ND	170	84.8	200	7.24	
EXT DRO >C28-C36	<10.0	10.0	10/30/2023	ND					

Surrogate: 1-Chlorooctane 72.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 64.7 % 49.1-148

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Analytical Results For:

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

Received: 10/26/2023
Reported: 11/02/2023
Project Name: OGDEN SUBSTATION TANK OVERFLOW
Project Number: 03C2012016
Project Location: BTA 32.26246,-104.11690

Sampling Date: 10/23/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW 03 @ 0-1' (H235870-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/31/2023	ND	1.96	98.1	2.00	2.55		
Toluene*	<0.050	0.050	10/31/2023	ND	2.02	101	2.00	2.49		
Ethylbenzene*	<0.050	0.050	10/31/2023	ND	2.02	101	2.00	2.82		
Total Xylenes*	<0.150	0.150	10/31/2023	ND	6.07	101	6.00	3.11		
Total BTEx	<0.300	0.300	10/31/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	10/31/2023	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	10/30/2023	ND	183	91.6	200	1.96	
DRO >C10-C28*	<10.0	10.0	10/30/2023	ND	170	84.8	200	7.24	
EXT DRO >C28-C36	<10.0	10.0	10/30/2023	ND					

Surrogate: 1-Chlorooctane 76.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 67.6 % 49.1-148

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Analytical Results For:

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

Received: 10/26/2023
Reported: 11/02/2023
Project Name: OGDEN SUBSTATION TANK OVERFLOW
Project Number: 03C2012016
Project Location: BTA 32.26246,-104.11690

Sampling Date: 10/23/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW 04 @ 0-1' (H235870-07)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/31/2023	ND	1.91	95.3	2.00	4.40		
Toluene*	<0.050	0.050	10/31/2023	ND	1.95	97.6	2.00	4.27		
Ethylbenzene*	<0.050	0.050	10/31/2023	ND	1.95	97.3	2.00	4.94		
Total Xylenes*	<0.150	0.150	10/31/2023	ND	5.81	96.9	6.00	4.90		
Total BTX	<0.300	0.300	10/31/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	10/31/2023	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	10/30/2023	ND	183	91.6	200	1.96	
DRO >C10-C28*	<10.0	10.0	10/30/2023	ND	170	84.8	200	7.24	
EXT DRO >C28-C36	<10.0	10.0	10/30/2023	ND					

Surrogate: 1-Chlorooctane 77.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.1 % 49.1-148

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Analytical Results For:

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

Received: 10/26/2023
Reported: 11/02/2023
Project Name: OGDEN SUBSTATION TANK OVERFLOW
Project Number: 03C2012016
Project Location: BTA 32.26246,-104.11690

Sampling Date: 10/23/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW 05 @ 0-1' (H235870-08)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/31/2023	ND	1.91	95.3	2.00	4.40	
Toluene*	<0.050	0.050	10/31/2023	ND	1.95	97.6	2.00	4.27	
Ethylbenzene*	<0.050	0.050	10/31/2023	ND	1.95	97.3	2.00	4.94	
Total Xylenes*	<0.150	0.150	10/31/2023	ND	5.81	96.9	6.00	4.90	
Total BTX	<0.300	0.300	10/31/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	10/31/2023	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	10/30/2023	ND	183	91.6	200	1.96	
DRO >C10-C28*	<10.0	10.0	10/30/2023	ND	170	84.8	200	7.24	
EXT DRO >C28-C36	<10.0	10.0	10/30/2023	ND					

Surrogate: 1-Chlorooctane 80.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.4 % 49.1-148

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Analytical Results For:

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

Received: 10/26/2023
Reported: 11/02/2023
Project Name: OGDEN SUBSTATION TANK OVERFLOW
Project Number: 03C2012016
Project Location: BTA 32.26246,-104.11690

Sampling Date: 10/24/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 19 @ 1' (H235870-09)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/31/2023	ND	1.91	95.3	2.00	4.40	
Toluene*	<0.050	0.050	10/31/2023	ND	1.95	97.6	2.00	4.27	
Ethylbenzene*	<0.050	0.050	10/31/2023	ND	1.95	97.3	2.00	4.94	
Total Xylenes*	<0.150	0.150	10/31/2023	ND	5.81	96.9	6.00	4.90	
Total BTX	<0.300	0.300	10/31/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	10/31/2023	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	10/30/2023	ND	183	91.6	200	1.96	
DRO >C10-C28*	<10.0	10.0	10/30/2023	ND	170	84.8	200	7.24	
EXT DRO >C28-C36	<10.0	10.0	10/30/2023	ND					

Surrogate: 1-Chlorooctane 75.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 67.8 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/26/2023
Reported: 11/02/2023
Project Name: OGDEN SUBSTATION TANK OVERFLOW
Project Number: 03C2012016
Project Location: BTA 32.26246,-104.11690

Sampling Date: 10/24/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 20 @ 1' (H235870-10)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/31/2023	ND	1.91	95.3	2.00	4.40		
Toluene*	<0.050	0.050	10/31/2023	ND	1.95	97.6	2.00	4.27		
Ethylbenzene*	<0.050	0.050	10/31/2023	ND	1.95	97.3	2.00	4.94		
Total Xylenes*	<0.150	0.150	10/31/2023	ND	5.81	96.9	6.00	4.90		
Total BTX	<0.300	0.300	10/31/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	10/31/2023	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	10/30/2023	ND	183	91.6	200	1.96	
DRO >C10-C28*	<10.0	10.0	10/30/2023	ND	170	84.8	200	7.24	
EXT DRO >C28-C36	<10.0	10.0	10/30/2023	ND					

Surrogate: 1-Chlorooctane 73.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 64.8 % 49.1-148

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Analytical Results For:

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

Received: 10/26/2023
Reported: 11/02/2023
Project Name: OGDEN SUBSTATION TANK OVERFLOW
Project Number: 03C2012016
Project Location: BTA 32.26246,-104.11690

Sampling Date: 10/24/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 21 @ 1' (H235870-11)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/31/2023	ND	1.91	95.3	2.00	4.40	
Toluene*	<0.050	0.050	10/31/2023	ND	1.95	97.6	2.00	4.27	
Ethylbenzene*	<0.050	0.050	10/31/2023	ND	1.95	97.3	2.00	4.94	
Total Xylenes*	<0.150	0.150	10/31/2023	ND	5.81	96.9	6.00	4.90	
Total BTEX	<0.300	0.300	10/31/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	10/31/2023	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	10/30/2023	ND	183	91.6	200	1.96	
DRO >C10-C28*	<10.0	10.0	10/30/2023	ND	170	84.8	200	7.24	
EXT DRO >C28-C36	<10.0	10.0	10/30/2023	ND					

Surrogate: 1-Chlorooctane 75.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 67.3 % 49.1-148

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Analytical Results For:

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

Received: 10/26/2023
Reported: 11/02/2023
Project Name: OGDEN SUBSTATION TANK OVERFLOW
Project Number: 03C2012016
Project Location: BTA 32.26246,-104.11690

Sampling Date: 10/24/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 22 @ 1' (H235870-12)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/31/2023	ND	1.91	95.3	2.00	4.40		
Toluene*	<0.050	0.050	10/31/2023	ND	1.95	97.6	2.00	4.27		
Ethylbenzene*	<0.050	0.050	10/31/2023	ND	1.95	97.3	2.00	4.94		
Total Xylenes*	<0.150	0.150	10/31/2023	ND	5.81	96.9	6.00	4.90		
Total BTX	<0.300	0.300	10/31/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	10/31/2023	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	10/30/2023	ND	183	91.6	200	1.96	
DRO >C10-C28*	<10.0	10.0	10/30/2023	ND	170	84.8	200	7.24	
EXT DRO >C28-C36	<10.0	10.0	10/30/2023	ND					

Surrogate: 1-Chlorooctane 79.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 69.2 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 10/26/2023
Reported: 11/02/2023
Project Name: OGDEN SUBSTATION TANK OVERFLOW
Project Number: 03C2012016
Project Location: BTA 32.26246,-104.11690

Sampling Date: 10/24/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 23 @ 1' (H235870-13)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/31/2023	ND	1.91	95.3	2.00	4.40		
Toluene*	<0.050	0.050	10/31/2023	ND	1.95	97.6	2.00	4.27		
Ethylbenzene*	<0.050	0.050	10/31/2023	ND	1.95	97.3	2.00	4.94		
Total Xylenes*	<0.150	0.150	10/31/2023	ND	5.81	96.9	6.00	4.90		
Total BTX	<0.300	0.300	10/31/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	10/31/2023	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	10/30/2023	ND	183	91.6	200	1.96	
DRO >C10-C28*	<10.0	10.0	10/30/2023	ND	170	84.8	200	7.24	
EXT DRO >C28-C36	<10.0	10.0	10/30/2023	ND					

Surrogate: 1-Chlorooctane 77.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.0 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/26/2023
Reported: 11/02/2023
Project Name: OGDEN SUBSTATION TANK OVERFLOW
Project Number: 03C2012016
Project Location: BTA 32.26246,-104.11690

Sampling Date: 10/24/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 24 @ 1' (H235870-14)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/31/2023	ND	1.91	95.3	2.00	4.40		
Toluene*	<0.050	0.050	10/31/2023	ND	1.95	97.6	2.00	4.27		
Ethylbenzene*	<0.050	0.050	10/31/2023	ND	1.95	97.3	2.00	4.94		
Total Xylenes*	<0.150	0.150	10/31/2023	ND	5.81	96.9	6.00	4.90		
Total BTX	<0.300	0.300	10/31/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	10/31/2023	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	10/30/2023	ND	183	91.6	200	1.96	
DRO >C10-C28*	<10.0	10.0	10/30/2023	ND	170	84.8	200	7.24	
EXT DRO >C28-C36	<10.0	10.0	10/30/2023	ND					

Surrogate: 1-Chlorooctane 78.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.7 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/26/2023
Reported: 11/02/2023
Project Name: OGDEN SUBSTATION TANK OVERFLOW
Project Number: 03C2012016
Project Location: BTA 32.26246,-104.11690

Sampling Date: 10/24/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 25 @ 1' (H235870-15)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/31/2023	ND	1.91	95.3	2.00	4.40		
Toluene*	<0.050	0.050	10/31/2023	ND	1.95	97.6	2.00	4.27		
Ethylbenzene*	<0.050	0.050	10/31/2023	ND	1.95	97.3	2.00	4.94		
Total Xylenes*	<0.150	0.150	10/31/2023	ND	5.81	96.9	6.00	4.90		
Total BTX	<0.300	0.300	10/31/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	10/31/2023	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	10/30/2023	ND	183	91.6	200	1.96	
DRO >C10-C28*	<10.0	10.0	10/30/2023	ND	170	84.8	200	7.24	
EXT DRO >C28-C36	<10.0	10.0	10/30/2023	ND					

Surrogate: 1-Chlorooctane 67.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 59.9 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/26/2023
Reported: 11/02/2023
Project Name: OGDEN SUBSTATION TANK OVERFLOW
Project Number: 03C2012016
Project Location: BTA 32.26246,-104.11690

Sampling Date: 10/24/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 26 @ 1' (H235870-16)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/31/2023	ND	1.91	95.3	2.00	4.40	
Toluene*	<0.050	0.050	10/31/2023	ND	1.95	97.6	2.00	4.27	
Ethylbenzene*	<0.050	0.050	10/31/2023	ND	1.95	97.3	2.00	4.94	
Total Xylenes*	<0.150	0.150	10/31/2023	ND	5.81	96.9	6.00	4.90	
Total BTX	<0.300	0.300	10/31/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	10/31/2023	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	10/30/2023	ND	183	91.6	200	1.96	
DRO >C10-C28*	<10.0	10.0	10/30/2023	ND	170	84.8	200	7.24	
EXT DRO >C28-C36	<10.0	10.0	10/30/2023	ND					

Surrogate: 1-Chlorooctane 81.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.7 % 49.1-148

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Analytical Results For:

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

Received: 10/26/2023
Reported: 11/02/2023
Project Name: OGDEN SUBSTATION TANK OVERFLOW
Project Number: 03C2012016
Project Location: BTA 32.26246,-104.11690

Sampling Date: 10/24/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 27 @ 1' (H235870-17)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/31/2023	ND	1.91	95.3	2.00	4.40		
Toluene*	<0.050	0.050	10/31/2023	ND	1.95	97.6	2.00	4.27		
Ethylbenzene*	<0.050	0.050	10/31/2023	ND	1.95	97.3	2.00	4.94		
Total Xylenes*	<0.150	0.150	10/31/2023	ND	5.81	96.9	6.00	4.90		
Total BTX	<0.300	0.300	10/31/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	10/31/2023	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	10/31/2023	ND	198	99.0	200	4.77	
DRO >C10-C28*	<10.0	10.0	10/31/2023	ND	201	100	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	10/31/2023	ND					

Surrogate: 1-Chlorooctane 88.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Analytical Results For:

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

Received: 10/26/2023
Reported: 11/02/2023
Project Name: OGDEN SUBSTATION TANK OVERFLOW
Project Number: 03C2012016
Project Location: BTA 32.26246,-104.11690

Sampling Date: 10/24/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 28 @ 1' (H235870-18)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/31/2023	ND	1.91	95.3	2.00	4.40		
Toluene*	<0.050	0.050	10/31/2023	ND	1.95	97.6	2.00	4.27		
Ethylbenzene*	<0.050	0.050	10/31/2023	ND	1.95	97.3	2.00	4.94		
Total Xylenes*	<0.150	0.150	10/31/2023	ND	5.81	96.9	6.00	4.90		
Total BTX	<0.300	0.300	10/31/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	10/31/2023	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	10/31/2023	ND	198	99.0	200	4.77	
DRO >C10-C28*	<10.0	10.0	10/31/2023	ND	201	100	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	10/31/2023	ND					

Surrogate: 1-Chlorooctane 78.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.3 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/26/2023
Reported: 11/02/2023
Project Name: OGDEN SUBSTATION TANK OVERFLOW
Project Number: 03C2012016
Project Location: BTA 32.26246,-104.11690

Sampling Date: 10/24/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 29 @ 4' (H235870-19)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/31/2023	ND	1.91	95.3	2.00	4.40	
Toluene*	<0.050	0.050	10/31/2023	ND	1.95	97.6	2.00	4.27	
Ethylbenzene*	<0.050	0.050	10/31/2023	ND	1.95	97.3	2.00	4.94	
Total Xylenes*	<0.150	0.150	10/31/2023	ND	5.81	96.9	6.00	4.90	
Total BTX	<0.300	0.300	10/31/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	10/31/2023	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	10/31/2023	ND	198	99.0	200	4.77	
DRO >C10-C28*	<10.0	10.0	10/31/2023	ND	201	100	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	10/31/2023	ND					

Surrogate: 1-Chlorooctane 92.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/26/2023
Reported: 11/02/2023
Project Name: OGDEN SUBSTATION TANK OVERFLOW
Project Number: 03C2012016
Project Location: BTA 32.26246,-104.11690

Sampling Date: 10/24/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 30 @ 2' (H235870-20)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/31/2023	ND	1.91	95.3	2.00	4.40	
Toluene*	<0.050	0.050	10/31/2023	ND	1.95	97.6	2.00	4.27	
Ethylbenzene*	<0.050	0.050	10/31/2023	ND	1.95	97.3	2.00	4.94	
Total Xylenes*	<0.150	0.150	10/31/2023	ND	5.81	96.9	6.00	4.90	
Total BTX	<0.300	0.300	10/31/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	10/31/2023	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	10/31/2023	ND	198	99.0	200	4.77	
DRO >C10-C28*	<10.0	10.0	10/31/2023	ND	201	100	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	10/31/2023	ND					

Surrogate: 1-Chlorooctane 86.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.9 % 49.1-148

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*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 10/26/2023
Reported: 11/02/2023
Project Name: OGDEN SUBSTATION TANK OVERFLOW
Project Number: 03C2012016
Project Location: BTA 32.26246,-104.11690

Sampling Date: 10/24/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 31 @ 2' (H235870-21)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/31/2023	ND	1.91	95.3	2.00	4.40	
Toluene*	<0.050	0.050	10/31/2023	ND	1.95	97.6	2.00	4.27	
Ethylbenzene*	<0.050	0.050	10/31/2023	ND	1.95	97.3	2.00	4.94	
Total Xylenes*	<0.150	0.150	10/31/2023	ND	5.81	96.9	6.00	4.90	
Total BTX	<0.300	0.300	10/31/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	10/31/2023	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	10/31/2023	ND	198	99.0	200	4.77	
DRO >C10-C28*	<10.0	10.0	10/31/2023	ND	201	100	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	10/31/2023	ND					

Surrogate: 1-Chlorooctane 92.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 10/26/2023
Reported: 11/02/2023
Project Name: OGDEN SUBSTATION TANK OVERFLOW
Project Number: 03C2012016
Project Location: BTA 32.26246,-104.11690

Sampling Date: 10/24/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 32 @ 2' (H235870-22)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/31/2023	ND	1.91	95.3	2.00	4.40	
Toluene*	<0.050	0.050	10/31/2023	ND	1.95	97.6	2.00	4.27	
Ethylbenzene*	<0.050	0.050	10/31/2023	ND	1.95	97.3	2.00	4.94	
Total Xylenes*	<0.150	0.150	10/31/2023	ND	5.81	96.9	6.00	4.90	
Total BTX	<0.300	0.300	10/31/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	448	16.0	10/31/2023	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	10/31/2023	ND	198	99.0	200	4.77	
DRO >C10-C28*	<10.0	10.0	10/31/2023	ND	201	100	200	1.24	
EXT DRO >C28-C36	<10.0	10.0	10/31/2023	ND					

Surrogate: 1-Chlorooctane 95.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Notes and Definitions

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

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A handwritten signature in black ink, appearing to read "Mike Snyder", is written over a horizontal line.

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



ANALYSIS REQUEST

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



Page 26 of 27

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

November 20, 2023

HADLIE GREEN

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: OGDEN SUBSTATION TANK OVERFLOW

Enclosed are the results of analyses for samples received by the laboratory on 11/16/23 9:13.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Mike Snyder". The signature is fluid and cursive, with the first name "Mike" and last name "Snyder" clearly distinguishable.

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 11/16/2023
Reported: 11/20/2023
Project Name: OGDEN SUBSTATION TANK OVERFLOW
Project Number: 03C2012016
Project Location: BTA 32.26246,-104.11690

Sampling Date: 11/14/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 14 2 FT (H236266-01)

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/17/2023	ND	1.98	99.1	2.00	1.65	
Toluene*	<0.050	0.050	11/17/2023	ND	1.92	96.2	2.00	6.42	
Ethylbenzene*	<0.050	0.050	11/17/2023	ND	2.02	101	2.00	7.60	
Total Xylenes*	<0.150	0.150	11/17/2023	ND	6.11	102	6.00	8.22	
Total BTX	<0.300	0.300	11/17/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	464	16.0	11/17/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/17/2023	ND	202	101	200	1.37	
DRO >C10-C28*	<10.0	10.0	11/17/2023	ND	188	94.2	200	0.739	
EXT DRO >C28-C36	<10.0	10.0	11/17/2023	ND					

Surrogate: 1-Chlorooctane 90.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.1 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 11/16/2023
Reported: 11/20/2023
Project Name: OGDEN SUBSTATION TANK OVERFLOW
Project Number: 03C2012016
Project Location: BTA 32.26246,-104.11690

Sampling Date: 11/14/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 33 2 FT (H236266-02)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/17/2023	ND	1.98	99.1	2.00	1.65	
Toluene*	<0.050	0.050	11/17/2023	ND	1.92	96.2	2.00	6.42	
Ethylbenzene*	<0.050	0.050	11/17/2023	ND	2.02	101	2.00	7.60	
Total Xylenes*	<0.150	0.150	11/17/2023	ND	6.11	102	6.00	8.22	
Total BTEX	<0.300	0.300	11/17/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	11/17/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/17/2023	ND	202	101	200	1.37	
DRO >C10-C28*	<10.0	10.0	11/17/2023	ND	188	94.2	200	0.739	
EXT DRO >C28-C36	<10.0	10.0	11/17/2023	ND					

Surrogate: 1-Chlorooctane 89.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.7 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 11/16/2023
Reported: 11/20/2023
Project Name: OGDEN SUBSTATION TANK OVERFLOW
Project Number: 03C2012016
Project Location: BTA 32.26246,-104.11690

Sampling Date: 11/14/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 34 2 FT (H236266-03)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/17/2023	ND	2.07	103	2.00	3.94		
Toluene*	<0.050	0.050	11/17/2023	ND	2.08	104	2.00	1.21		
Ethylbenzene*	<0.050	0.050	11/17/2023	ND	2.07	104	2.00	1.27		
Total Xylenes*	<0.150	0.150	11/17/2023	ND	6.14	102	6.00	0.643		
Total BTEX	<0.300	0.300	11/17/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	384	16.0	11/17/2023	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	11/17/2023	ND	202	101	200	1.37	
DRO >C10-C28*	<10.0	10.0	11/17/2023	ND	188	94.2	200	0.739	
EXT DRO >C28-C36	<10.0	10.0	11/17/2023	ND					

Surrogate: 1-Chlorooctane 77.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.4 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 11/16/2023
Reported: 11/20/2023
Project Name: OGDEN SUBSTATION TANK OVERFLOW
Project Number: 03C2012016
Project Location: BTA 32.26246,-104.11690

Sampling Date: 11/14/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 35 2 FT (H236266-04)

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/17/2023	ND	2.07	103	2.00	3.94	
Toluene*	<0.050	0.050	11/17/2023	ND	2.08	104	2.00	1.21	
Ethylbenzene*	<0.050	0.050	11/17/2023	ND	2.07	104	2.00	1.27	
Total Xylenes*	<0.150	0.150	11/17/2023	ND	6.14	102	6.00	0.643	
Total BTX	<0.300	0.300	11/17/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	11/17/2023	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	11/17/2023	ND	202	101	200	1.37	
DRO >C10-C28*	<10.0	10.0	11/17/2023	ND	188	94.2	200	0.739	
EXT DRO >C28-C36	<10.0	10.0	11/17/2023	ND					

Surrogate: 1-Chlorooctane 75.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.6 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 11/16/2023
Reported: 11/20/2023
Project Name: OGDEN SUBSTATION TANK OVERFLOW
Project Number: 03C2012016
Project Location: BTA 32.26246,-104.11690

Sampling Date: 11/14/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 36 2 FT (H236266-05)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/17/2023	ND	2.07	103	2.00	3.94		
Toluene*	<0.050	0.050	11/17/2023	ND	2.08	104	2.00	1.21		
Ethylbenzene*	<0.050	0.050	11/17/2023	ND	2.07	104	2.00	1.27		
Total Xylenes*	<0.150	0.150	11/17/2023	ND	6.14	102	6.00	0.643		
Total BTEX	<0.300	0.300	11/17/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	11/17/2023	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	11/17/2023	ND	202	101	200	1.37	
DRO >C10-C28*	<10.0	10.0	11/17/2023	ND	188	94.2	200	0.739	
EXT DRO >C28-C36	<10.0	10.0	11/17/2023	ND					

Surrogate: 1-Chlorooctane 74.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 69.2 % 49.1-148

Cardinal Laboratories

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 11/16/2023
Reported: 11/20/2023
Project Name: OGDEN SUBSTATION TANK OVERFLOW
Project Number: 03C2012016
Project Location: BTA 32.26246,-104.11690

Sampling Date: 11/14/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 37 2 FT (H236266-06)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/17/2023	ND	2.07	103	2.00	3.94		
Toluene*	<0.050	0.050	11/17/2023	ND	2.08	104	2.00	1.21		
Ethylbenzene*	<0.050	0.050	11/17/2023	ND	2.07	104	2.00	1.27		
Total Xylenes*	<0.150	0.150	11/17/2023	ND	6.14	102	6.00	0.643		
Total BTEX	<0.300	0.300	11/17/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	11/17/2023	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	11/17/2023	ND	202	101	200	1.37	
DRO >C10-C28*	<10.0	10.0	11/17/2023	ND	188	94.2	200	0.739	
EXT DRO >C28-C36	<10.0	10.0	11/17/2023	ND					

Surrogate: 1-Chlorooctane 86.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.3 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 11/16/2023
Reported: 11/20/2023
Project Name: OGDEN SUBSTATION TANK OVERFLOW
Project Number: 03C2012016
Project Location: BTA 32.26246,-104.11690

Sampling Date: 11/14/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 38 2 FT (H236266-07)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/17/2023	ND	2.07	103	2.00	3.94		
Toluene*	<0.050	0.050	11/17/2023	ND	2.08	104	2.00	1.21		
Ethylbenzene*	<0.050	0.050	11/17/2023	ND	2.07	104	2.00	1.27		
Total Xylenes*	<0.150	0.150	11/17/2023	ND	6.14	102	6.00	0.643		
Total BTEX	<0.300	0.300	11/17/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	11/17/2023	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	11/17/2023	ND	202	101	200	1.37	
DRO >C10-C28*	<10.0	10.0	11/17/2023	ND	188	94.2	200	0.739	
EXT DRO >C28-C36	<10.0	10.0	11/17/2023	ND					

Surrogate: 1-Chlorooctane 78.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.9 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 11/16/2023
Reported: 11/20/2023
Project Name: OGDEN SUBSTATION TANK OVERFLOW
Project Number: 03C2012016
Project Location: BTA 32.26246,-104.11690

Sampling Date: 11/14/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 39 2 FT (H236266-08)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/17/2023	ND	2.07	103	2.00	3.94	
Toluene*	<0.050	0.050	11/17/2023	ND	2.08	104	2.00	1.21	
Ethylbenzene*	<0.050	0.050	11/17/2023	ND	2.07	104	2.00	1.27	
Total Xylenes*	<0.150	0.150	11/17/2023	ND	6.14	102	6.00	0.643	
Total BTEX	<0.300	0.300	11/17/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	416	16.0	11/17/2023	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	11/17/2023	ND	202	101	200	1.37	
DRO >C10-C28*	<10.0	10.0	11/17/2023	ND	188	94.2	200	0.739	
EXT DRO >C28-C36	<10.0	10.0	11/17/2023	ND					

Surrogate: 1-Chlorooctane 79.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.3 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 11/16/2023
Reported: 11/20/2023
Project Name: OGDEN SUBSTATION TANK OVERFLOW
Project Number: 03C2012016
Project Location: BTA 32.26246,-104.11690

Sampling Date: 11/14/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 40 2 FT (H236266-09)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/17/2023	ND	2.07	103	2.00	3.94		
Toluene*	<0.050	0.050	11/17/2023	ND	2.08	104	2.00	1.21		
Ethylbenzene*	<0.050	0.050	11/17/2023	ND	2.07	104	2.00	1.27		
Total Xylenes*	<0.150	0.150	11/17/2023	ND	6.14	102	6.00	0.643		
Total BTEx	<0.300	0.300	11/17/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	496	16.0	11/17/2023	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	11/17/2023	ND	202	101	200	1.37	
DRO >C10-C28*	<10.0	10.0	11/17/2023	ND	188	94.2	200	0.739	
EXT DRO >C28-C36	<10.0	10.0	11/17/2023	ND					

Surrogate: 1-Chlorooctane 89.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.6 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 11/16/2023
Reported: 11/20/2023
Project Name: OGDEN SUBSTATION TANK OVERFLOW
Project Number: 03C2012016
Project Location: BTA 32.26246,-104.11690

Sampling Date: 11/14/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 41 2 FT (H236266-10)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/17/2023	ND	2.07	103	2.00	3.94		
Toluene*	<0.050	0.050	11/17/2023	ND	2.08	104	2.00	1.21		
Ethylbenzene*	<0.050	0.050	11/17/2023	ND	2.07	104	2.00	1.27		
Total Xylenes*	<0.150	0.150	11/17/2023	ND	6.14	102	6.00	0.643		
Total BTEX	<0.300	0.300	11/17/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	11/17/2023	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	11/17/2023	ND	202	101	200	1.37	
DRO >C10-C28*	<10.0	10.0	11/17/2023	ND	188	94.2	200	0.739	
EXT DRO >C28-C36	<10.0	10.0	11/17/2023	ND					

Surrogate: 1-Chlorooctane 67.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 63.3 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 11/16/2023
Reported: 11/20/2023
Project Name: OGDEN SUBSTATION TANK OVERFLOW
Project Number: 03C2012016
Project Location: BTA 32.26246,-104.11690

Sampling Date: 11/14/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 42 4 FT (H236266-11)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/17/2023	ND	2.07	103	2.00	3.94		
Toluene*	<0.050	0.050	11/17/2023	ND	2.08	104	2.00	1.21		
Ethylbenzene*	<0.050	0.050	11/17/2023	ND	2.07	104	2.00	1.27		
Total Xylenes*	<0.150	0.150	11/17/2023	ND	6.14	102	6.00	0.643		
Total BTEX	<0.300	0.300	11/17/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	11/17/2023	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	11/17/2023	ND	202	101	200	1.37	
DRO >C10-C28*	<10.0	10.0	11/17/2023	ND	188	94.2	200	0.739	
EXT DRO >C28-C36	<10.0	10.0	11/17/2023	ND					

Surrogate: 1-Chlorooctane 94.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.3 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 11/16/2023
Reported: 11/20/2023
Project Name: OGDEN SUBSTATION TANK OVERFLOW
Project Number: 03C2012016
Project Location: BTA 32.26246,-104.11690

Sampling Date: 11/14/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 43 4 FT (H236266-12)

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/17/2023	ND	2.07	103	2.00	3.94	
Toluene*	<0.050	0.050	11/17/2023	ND	2.08	104	2.00	1.21	
Ethylbenzene*	<0.050	0.050	11/17/2023	ND	2.07	104	2.00	1.27	
Total Xylenes*	<0.150	0.150	11/17/2023	ND	6.14	102	6.00	0.643	
Total BTX	<0.300	0.300	11/17/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/17/2023	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	11/17/2023	ND	202	101	200	1.37	
DRO >C10-C28*	<10.0	10.0	11/17/2023	ND	188	94.2	200	0.739	
EXT DRO >C28-C36	<10.0	10.0	11/17/2023	ND					

Surrogate: 1-Chlorooctane 89.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.0 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 11/16/2023
Reported: 11/20/2023
Project Name: OGDEN SUBSTATION TANK OVERFLOW
Project Number: 03C2012016
Project Location: BTA 32.26246,-104.11690

Sampling Date: 11/14/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 44 4 FT (H236266-13)

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/17/2023	ND	2.07	103	2.00	3.94	
Toluene*	<0.050	0.050	11/17/2023	ND	2.08	104	2.00	1.21	
Ethylbenzene*	<0.050	0.050	11/17/2023	ND	2.07	104	2.00	1.27	
Total Xylenes*	<0.150	0.150	11/17/2023	ND	6.14	102	6.00	0.643	
Total BTX	<0.300	0.300	11/17/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	11/17/2023	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	11/17/2023	ND	202	101	200	1.37	
DRO >C10-C28*	<10.0	10.0	11/17/2023	ND	188	94.2	200	0.739	
EXT DRO >C28-C36	<10.0	10.0	11/17/2023	ND					

Surrogate: 1-Chlorooctane 65.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 61.8 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 11/16/2023
Reported: 11/20/2023
Project Name: OGDEN SUBSTATION TANK OVERFLOW
Project Number: 03C2012016
Project Location: BTA 32.26246,-104.11690

Sampling Date: 11/14/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW 06 0-2 (H236266-14)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/17/2023	ND	2.07	103	2.00	3.94	
Toluene*	<0.050	0.050	11/17/2023	ND	2.08	104	2.00	1.21	
Ethylbenzene*	<0.050	0.050	11/17/2023	ND	2.07	104	2.00	1.27	
Total Xylenes*	<0.150	0.150	11/17/2023	ND	6.14	102	6.00	0.643	
Total BTEx	<0.300	0.300	11/17/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	11/17/2023	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	11/17/2023	ND	202	101	200	1.37	
DRO >C10-C28*	<10.0	10.0	11/17/2023	ND	188	94.2	200	0.739	
EXT DRO >C28-C36	<10.0	10.0	11/17/2023	ND					

Surrogate: 1-Chlorooctane 77.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.5 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 11/16/2023
Reported: 11/20/2023
Project Name: OGDEN SUBSTATION TANK OVERFLOW
Project Number: 03C2012016
Project Location: BTA 32.26246,-104.11690

Sampling Date: 11/14/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW 07 0-2 (H236266-15)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/17/2023	ND	2.07	103	2.00	3.94	
Toluene*	<0.050	0.050	11/17/2023	ND	2.08	104	2.00	1.21	
Ethylbenzene*	<0.050	0.050	11/17/2023	ND	2.07	104	2.00	1.27	
Total Xylenes*	<0.150	0.150	11/17/2023	ND	6.14	102	6.00	0.643	
Total BTEx	<0.300	0.300	11/17/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	11/17/2023	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	11/17/2023	ND	202	101	200	1.37	
DRO >C10-C28*	<10.0	10.0	11/17/2023	ND	188	94.2	200	0.739	
EXT DRO >C28-C36	<10.0	10.0	11/17/2023	ND					

Surrogate: 1-Chlorooctane 73.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.0 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 11/16/2023
Reported: 11/20/2023
Project Name: OGDEN SUBSTATION TANK OVERFLOW
Project Number: 03C2012016
Project Location: BTA 32.26246,-104.11690

Sampling Date: 11/14/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW 08 0-2 (H236266-16)

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/17/2023	ND	2.07	103	2.00	3.94	
Toluene*	<0.050	0.050	11/17/2023	ND	2.08	104	2.00	1.21	
Ethylbenzene*	<0.050	0.050	11/17/2023	ND	2.07	104	2.00	1.27	
Total Xylenes*	<0.150	0.150	11/17/2023	ND	6.14	102	6.00	0.643	
Total BTX	<0.300	0.300	11/17/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	448	16.0	11/17/2023	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	11/17/2023	ND	208	104	200	1.42	
DRO >C10-C28*	<10.0	10.0	11/17/2023	ND	219	110	200	0.831	
EXT DRO >C28-C36	<10.0	10.0	11/17/2023	ND					

Surrogate: 1-Chlorooctane 89.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 11/16/2023
Reported: 11/20/2023
Project Name: OGDEN SUBSTATION TANK OVERFLOW
Project Number: 03C2012016
Project Location: BTA 32.26246,-104.11690

Sampling Date: 11/14/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW 09 0-2 (H236266-17)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/17/2023	ND	2.07	103	2.00	3.94		
Toluene*	<0.050	0.050	11/17/2023	ND	2.08	104	2.00	1.21		
Ethylbenzene*	<0.050	0.050	11/17/2023	ND	2.07	104	2.00	1.27		
Total Xylenes*	<0.150	0.150	11/17/2023	ND	6.14	102	6.00	0.643		
Total BTEx	<0.300	0.300	11/17/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1070	16.0	11/17/2023	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	11/17/2023	ND	208	104	200	1.42	
DRO >C10-C28*	<10.0	10.0	11/17/2023	ND	219	110	200	0.831	
EXT DRO >C28-C36	<10.0	10.0	11/17/2023	ND					

Surrogate: 1-Chlorooctane 96.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 11/16/2023
Reported: 11/20/2023
Project Name: OGDEN SUBSTATION TANK OVERFLOW
Project Number: 03C2012016
Project Location: BTA 32.26246,-104.11690

Sampling Date: 11/14/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW 10 0-4 (H236266-18)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/17/2023	ND	2.07	103	2.00	3.94	
Toluene*	<0.050	0.050	11/17/2023	ND	2.08	104	2.00	1.21	
Ethylbenzene*	<0.050	0.050	11/17/2023	ND	2.07	104	2.00	1.27	
Total Xylenes*	<0.150	0.150	11/17/2023	ND	6.14	102	6.00	0.643	
Total BTEx	<0.300	0.300	11/17/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/17/2023	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	11/17/2023	ND	208	104	200	1.42	
DRO >C10-C28*	<10.0	10.0	11/17/2023	ND	219	110	200	0.831	
EXT DRO >C28-C36	<10.0	10.0	11/17/2023	ND					

Surrogate: 1-Chlorooctane 94.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 11/16/2023
Reported: 11/20/2023
Project Name: OGDEN SUBSTATION TANK OVERFLOW
Project Number: 03C2012016
Project Location: BTA 32.26246,-104.11690

Sampling Date: 11/14/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW 11 0-4 (H236266-19)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/17/2023	ND	2.07	103	2.00	3.94	
Toluene*	<0.050	0.050	11/17/2023	ND	2.08	104	2.00	1.21	
Ethylbenzene*	<0.050	0.050	11/17/2023	ND	2.07	104	2.00	1.27	
Total Xylenes*	<0.150	0.150	11/17/2023	ND	6.14	102	6.00	0.643	
Total BTEx	<0.300	0.300	11/17/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	11/17/2023	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	11/17/2023	ND	208	104	200	1.42	
DRO >C10-C28*	<10.0	10.0	11/17/2023	ND	219	110	200	0.831	
EXT DRO >C28-C36	<10.0	10.0	11/17/2023	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 128 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 11/16/2023
Reported: 11/20/2023
Project Name: OGDEN SUBSTATION TANK OVERFLOW
Project Number: 03C2012016
Project Location: BTA 32.26246,-104.11690

Sampling Date: 11/14/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW 12 0-4 (H236266-20)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/17/2023	ND	2.07	103	2.00	3.94	
Toluene*	<0.050	0.050	11/17/2023	ND	2.08	104	2.00	1.21	
Ethylbenzene*	<0.050	0.050	11/17/2023	ND	2.07	104	2.00	1.27	
Total Xylenes*	<0.150	0.150	11/17/2023	ND	6.14	102	6.00	0.643	
Total BTEx	<0.300	0.300	11/17/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/17/2023	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	11/17/2023	ND	208	104	200	1.42	
DRO >C10-C28*	<10.0	10.0	11/17/2023	ND	219	110	200	0.831	
EXT DRO >C28-C36	<10.0	10.0	11/17/2023	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Mike Snyder", is written over a horizontal line.

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Ensolum, LLC

BILL TO

ANALYSIS REQUEST

Project Manager: Hadlie Green

P.O. #:

Address: 3122 Notional Park Hwy

Company: BTA Oil

City: Carlsbad State: NM Zip: 88220

Attn: Kelton Baird

Phone #: 432-557-8895 Fax #:

Address: 101 S. Persimmon St

Project #: 08C2012016 Project Owner:

City: Midland

Project Name: 32.26246, -104.1169

State: TX Zip: 79701

Project Location: Ogden Substation Tankoverhaul

Phone #:

Sample Name: Stretch Wellway

Fax #:

FOR LAB USE ONLY

Lab I.D. Sample I.D.

Depth (feet)

(G)RAB OR (C)OMP.

CONTAINERS

MATRIX

PRESERV.

SAMPLING

HA3040

ES14

24

(G)RAB OR (C)OMP.

CONTAINERS

MATRIX

PRESERV.

SAMPLING

DATE

TIME

CI

BTEX

TPH

ES33

(G)RAB OR (C)OMP.

CONTAINERS

MATRIX

PRESERV.

SAMPLING

DATE

TIME

ES34

(G)RAB OR (C)OMP.

CONTAINERS

MATRIX

PRESERV.

SAMPLING

DATE

TIME

ES35

(G)RAB OR (C)OMP.

CONTAINERS

MATRIX

PRESERV.

SAMPLING

DATE

TIME

ES36

(G)RAB OR (C)OMP.

CONTAINERS

MATRIX

PRESERV.

SAMPLING

DATE

TIME

ES37

(G)RAB OR (C)OMP.

CONTAINERS

MATRIX

PRESERV.

SAMPLING

DATE

TIME

ES38

(G)RAB OR (C)OMP.

CONTAINERS

MATRIX

PRESERV.

SAMPLING

DATE

TIME

ES39

(G)RAB OR (C)OMP.

CONTAINERS

MATRIX

PRESERV.

SAMPLING

DATE

TIME

ES40

(G)RAB OR (C)OMP.

CONTAINERS

MATRIX

PRESERV.

SAMPLING

DATE

TIME

ES41

(G)RAB OR (C)OMP.

CONTAINERS

MATRIX

PRESERV.

SAMPLING

DATE

TIME

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Relinquished By: *[Signature]* Date: 11/16/23 Received By: *[Signature]* Date: 11/16/23

Relinquished By: *[Signature]* Date: 11-16-23 Received By: *[Signature]* Date: 11-16-23

Delivered By: (Circle One) *[Signature]* Oarserved Temp. °C 1.7°C Sample Condition Cool Intact Yes No

Sampler - UPS - Bus - Other: Corrected Temp. °C

Turnaround Time: Standard Rush ☒ Bacteria (only) Sample Condition Cool Intact Yes No Corrected Temp. °C

Thermometer ID #113-#140 Correction Factor 0.00

Verbal Result: ☐ Yes ☐ No Add'l Phone #: *[Number]*

All Results are emailed. Please provide Email address: *[Email]*

REMARKS:



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Ensolum, LLC

BILL TO

ANALYSIS REQUEST

Project Manager: Hadlie Green

P.O. #:

Address: 3122 National Parks Hwy

Company: BTA Oil

City: Carlisle State: NM Zip: 88220

Attn: Kelton Beard
Address: 104 S. Ficus St
City: Midland

Phone #: 432-557-8895 Fax #:

Project #: 03C2012016 Project Owner:

Project Name: Ogden Substation Tank Overhaul

Project Location: 32.26246 -104.11691

State: TX Zip: 79701

Phone #:

Fax #:

Sample Name: Soeh wellone

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

Depth (feet)

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

CL

BTEX

TPH

Turnaround Time: 140 Standard ☒ Rush ☐

Thermometer ID: 444 Bacteria (only) Sample Condition

Correction Factor: 0.00 Cool Intact ☐ Observed Temp. °C

Corrected Temp. °C

Remarks:

Verbal Result: ☐ Yes ☐ No Add'l Phone #:

All Results are emailed. Please provide Email address:

green@ensolum.com

Relinquished By: phr

Received By: phr

Date: 11/16/23 Time: 0734

Date: 11/16/23 Time: 0734

Date: 11/16/23 Time: 0734

Date: 11/16/23 Time: 0734

Date: 11/16/23 Time: 0734

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Date: 11/16/23 Time: 0734

Date: 11/16/23 Time: 0734



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

November 30, 2023

HADLIE GREEN

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: OGDEN SUBSTATION TANK OVERFLOW

Enclosed are the results of analyses for samples received by the laboratory on 11/29/23 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 accredited through the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 11/29/2023
 Reported: 11/30/2023
 Project Name: OGDEN SUBSTATION TANK OVERFLOW
 Project Number: 03C2012016
 Project Location: BTA 32.261866,-104.117304

Sampling Date: 11/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 13 0'-2' (H236412-01)

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/29/2023	ND	1.82	91.0	2.00	7.67	
Toluene*	<0.050	0.050	11/29/2023	ND	1.85	92.6	2.00	7.97	
Ethylbenzene*	<0.050	0.050	11/29/2023	ND	1.86	93.0	2.00	7.99	
Total Xylenes*	<0.150	0.150	11/29/2023	ND	5.52	91.9	6.00	7.82	
Total BTX	<0.300	0.300	11/29/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	528	16.0	11/29/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/29/2023	ND	225	113	200	3.21	
DRO >C10-C28*	<10.0	10.0	11/29/2023	ND	225	113	200	2.18	
EXT DRO >C28-C36	<10.0	10.0	11/29/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager

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

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

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

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

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Ensdlun		P.O. #:		BILL TO		ANALYSIS REQUEST	
Project Manager: Hedric Green		Company: BTA Oil					
Address: 601 N. Marland St. #400		Attn: Kelton Beard					
City: Midland		Address: 104 S. Ross St					
Phone #: 432-557-8895		City: Midland					
Fax #: 432-202016		State: TX Zip: 79701					
Project Name: Open Substation Tank Overflow		Phone #: 432-312-2703					
Project Location: 32.261846, -104.117304		Fax #:					
Sampler Name: Peter Ben Patten							

Lab I.D.	Sample I.D.	Depth	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	TPH	BTEX	Chlorides
H330412	SW13	0.2'	C	1			<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>		11/29/23	845	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

FOR LAB USE ONLY		MATRIX		PRESERV.		SAMPLING	
Delivered By: (Circle One)		Observed Temp. °C		Sample Condition		CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other:		Corrected Temp. °C		Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Turnaround Time: Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/>	
Relinquished By: He Ben Patten		Date: 11-29-23		Received By: Ensdlun		Bacteria (only) Sample Condition	
Relinquished By: He Ben Patten		Time: 1040		Received By: Ensdlun		Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	
Date: 11-29-23		Time: 1040		Received By: Ensdlun		Observed Temp. °C	
Time: 1040		Time: 1040		Received By: Ensdlun		Corrected Temp. °C	
Time: 1040		Time: 1040		Received By: Ensdlun		Corrected Temp. °C	

Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
All Results are emailed. Please provide Email address:	
REMARKS: Hydrogen@ensdlun.com	

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



APPENDIX E

NMOCD Notifications

From: [Wells, Shelly, EMNRD](#)
To: [Hadlie Green](#)
Cc: [Peter Van Patten](#); [Hamlet, Robert, EMNRD](#); [Bratcher, Michael, EMNRD](#)
Subject: RE: [EXTERNAL] BTA - Containment Inspection - Ogden Substation Tank Overflow (Incident Number nAPP2230983706)
Date: Thursday, October 26, 2023 2:07:18 PM

[**EXTERNAL EMAIL**]

Hi Hadlie,

The OCD has received your notification. Please include the time in future notifications to OCD. 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.

Thank you,

Shelly

Shelly Wells * Environmental Specialist-Advanced
Environmental Bureau
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive | Santa Fe, NM 87505
(505)469-7520 | Shelly.Wells@emnrd.nm.gov
<http://www.emnrd.state.nm.us/OCD/>

From: Hadlie Green <hgreen@ensolum.com>
Sent: Thursday, October 26, 2023 12:49 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Peter Van Patten <pvanpatten@ensolum.com>
Subject: [EXTERNAL] BTA - Containment Inspection - Ogden Substation Tank Overflow (Incident Number nAPP2230983706)

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

To Whom It May Concern,

Below is an email notification for liner inspection at BTA Oil Producers, LLC (BTA) Ogden Substation Tank Overflow, Spill Date 11-4-2022. This is a notification that Ensolum is scheduled to inspect this lined containment on behalf of BTA on Monday, October 30, 2023. Please call with any questions or concerns.

GPS: 32.26246, -104.11691

Thank you,



Hadlie Green

Project Geologist

432-557-8895

hgreen@ensolum.com

Ensolum, LLC



From: [Wells, Shelly, EMNRD](#)
To: [Hadlie Green](#)
Cc: [Kelton Beaird](#); [Tacoma Morrissey](#); [Aimee Cole](#); [Hamlet, Robert, EMNRD](#); [Bratcher, Michael, EMNRD](#); [Velez, Nelson, EMNRD](#)
Subject: RE: [EXTERNAL] BTA - Sampling Notification - Week of 11/6/2023
Date: Thursday, November 2, 2023 3:41:20 PM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)

[**EXTERNAL EMAIL**]

Hi Hadlie,

The OCD has received your notification. 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.

Thank you,

Shelly

[Shelly Wells](#) * Environmental Specialist-Advanced
Environmental Bureau
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive | Santa Fe, NM 87505
(505)469-7520 | Shelly.Wells@emnrd.nm.gov
<http://www.emnrd.state.nm.us/OCD/>

From: Hadlie Green <hgreen@ensolum.com>
Sent: Thursday, November 2, 2023 2:21 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Kelton Beaird <KBeaird@btaoil.com>; Tacoma Morrissey <tmorrissey@ensolum.com>; Aimee Cole <acole@ensolum.com>
Subject: [EXTERNAL] BTA - Sampling Notification - Week of 11/6/2023

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

All,

BTA anticipates collecting confirmation samples at the following locations the week of November 6, 2023.

- Ogden Substation Tank Overflow / NAPP2230983706

Sampling Date: 11/7-8/2023 @ 9:00 AM MST

- Vaca West Tank Battery / nAPP2202849030
 - Sampling Date: 11/9/2023 @ 9:00 AM MST

Thank you,



Hadlie Green

Project Geologist

432-557-8895

hgreen@ensolum.com

Ensolum, LLC



From: [Hamlet, Robert, EMNRD](#)
To: [Hadlie Green](#)
Cc: [KBeaird@btaoil.com](#); [Tacoma Morrissey](#); [Aimee Cole](#); [Bratcher, Michael, EMNRD](#); [Wells, Shelly, EMNRD](#); [Velez, Nelson, EMNRD](#)
Subject: RE: [EXTERNAL] BTA - Extension Request - Ogden Substation Tank Overflow (Incident Number nAPP2230983706)
Date: Tuesday, November 14, 2023 8:48:04 AM
Attachments: [image006.png](#)
[image007.png](#)
[image008.png](#)
[image009.png](#)

You don't often get email from robert.hamlet@emnrd.nm.gov. [Learn why this is important](#)

[**EXTERNAL EMAIL**]

Hadlie,

The OCD Spill Rule states, "The responsible party must submit information characterizing the release to the appropriate division district office within 90 days of discovery of the release or characterize the release by submitting a final closure report within 90 days of discovery of the release in accordance with Subsection E of 19.15.29.12 NMAC. The responsible party may seek an extension of time to submit characterization information for good cause as determined by the division. A remediation plan was due for this incident on **2/2/2023**. A onetime extension of 30 days is granted for the above release. Please have a remediation plan and/or closure report loaded to the payment portal no later than 12/14/2023. On future incidents, If an extension is requested outside of the 90 day deadline, it will be denied. Please include this e-mail correspondence in the remediation plan and/or closure report.

Robert Hamlet • Environmental Specialist - Advanced
Environmental Bureau
EMNRD - Oil Conservation Division
506 W. Texas Ave. | Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
<http://www.emnrd.state.nm.us/OCD/>



From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Monday, November 13, 2023 9:53 AM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: FW: [EXTERNAL] BTA - Extension Request - Ogden Substation Tank Overflow (Incident Number nAPP2230983706)

From: Hadlie Green <hgreen@ensolum.com>

Sent: Friday, November 10, 2023 1:26 PM

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

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

Subject: [EXTERNAL] BTA - Extension Request - Ogden Substation Tank Overflow (Incident Number nAPP2230983706)

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 November 19, 2023, for submitting a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC for the Ogden Substation Tank Overflow (Incident Number nAPP2230983706). The release was discovered on November 4, 2022. Initial site assessment activities have been completed and excavation activities are ongoing. In order to complete the additional remediation activities and submit a remediation work plan or closure report, BTA requests a 30-day extension of this deadline until December 19, 2023.

Thank you,



Hadlie Green

Project Geologist

432-557-8895

hgreen@ensolum.com

Ensolum, LLC

in f 

From: [Wells, Shelly, EMNRD](#)
To: [Hadlie Green](#)
Cc: [Kelton Beaird](#); [Tacoma Morrissey](#); [Aimee Cole](#); [Hamlet, Robert, EMNRD](#); [Bratcher, Michael, EMNRD](#)
Subject: RE: [EXTERNAL] BTA - Sampling Notification - Ogden Substation Tank Overflow (Incident Number nAPP2230983706)
Date: Monday, November 13, 2023 10:50:56 AM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)

[**EXTERNAL EMAIL**]

Hi Hadlie,

The OCD has received your notification. Notification requirements are **two full business days**, per rule. You may proceed on your schedule. This, and all correspondence, should be included in the closure report to ensure inclusion in the project file.

Thank you,

Shelly

[Shelly Wells](#) * Environmental Specialist-Advanced
Environmental Bureau
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive | Santa Fe, NM 87505
(505)469-7520 | Shelly.Wells@emnrd.nm.gov
<http://www.emnrd.state.nm.us/OCD/>

From: Hadlie Green <hgreen@ensolum.com>
Sent: Friday, November 10, 2023 10:51 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Kelton Beaird <KBeaird@btaoil.com>; Tacoma Morrissey <tmorrissey@ensolum.com>; Aimee Cole <acole@ensolum.com>
Subject: [EXTERNAL] BTA - Sampling Notification - Ogden Substation Tank Overflow (Incident Number nAPP2230983706)

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

All,

BTA anticipates collecting confirmation samples at the following location on Tuesday, November 14, 2023.

- Ogden Substation Tank Overflow / nAPP2230983706
 - Sampling Date: 11/14/2023 @ 9:00 AM MST
 - GPS: 32.26246, -104.11691

Thank you,



Hadlie Green

Project Geologist

432-557-8895

hgreen@ensolum.com

Ensolum, LLC

in f 



APPENDIX F

Final C-141

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
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	nAPP2230983706
District RP	
Facility ID	fAB1904636949
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) nAPP2230983706
Contact mailing address: 104 S. Pecos St., Midland, TX 79701	

Location of Release Source

Latitude: 32.26246 Longitude: -104.11691

(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Ogden Substation Tank Overflow	Site Type: Tank Battery
Date Release Discovered: 11/4/2022	API# (if applicable) Nearest well:

Unit Letter	Section	Township	Range	County
E	32	23S	28E	Eddy

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

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 988 BBL	Volume Recovered (bbls) 972 BBL
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

Pump Failure. A transfer pump failed to start, allowing the tanks to overflow into the secondary containment. The containment completely filled and overflowed. Recovered 100 BW with vacuum trucks from the ground and recovered the 872 BW volume of the secondary containment.
Spill Volume Calculation is attached.

Incident ID	nAPP2230983706
District RP	
Facility ID	fAB1904636949
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? The release volume exceeded 25 BBL fluid.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? NOR assigned the present Incident ID nAPP2230983706 was filed on 11/5/2022.	

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why: 	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. Printed Name: Bob Hall Title: Environmental Manager Signature: _____/s/ Bob Hall Date: 11/17/2022 email: bhall@btaoil.com Telephone: 432-682-3753	
<u>OCD Only</u> Received by: <u>Jocelyn Harimon</u> Date: <u>11/18/2022</u>	

Location Ogden Water Station

API #

Spill Date 11/4/2022

Spill Dimensions

ENTER - Length of Spill

 feet

ENTER - Width of Spill

 feet

ENTER - Saturation Depth of Spill

 inches

ENTER - Porosity Factor

 decimal**Oil Cut - Well Test / Vessel Throughput or Contents**

Oil

Water

Calculated Oil Cut

Volume Recovered in Truck / Containment

ENTER - Recovered Oil

 BBL

ENTER - Recovered Water

 BBL**Calculated Values**

Release of Oil in Soil - Unrecovered

calculated
 BBL

Release of Water in Soil - Unrecovered

 BBL

Unrecovered Total Release

 BBL**Calculated Values**

Total Release of Oil

calculated
 BBL

Total Release of Water

 BBL

Total Release

 BBL

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

(Length X Width X Depth X 1 ft/12 in) X Porosity5.615 ft³ / BBL

X

Oil Cut
(or Water Cut)

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 159896

CONDITIONS

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297
	Action Number: 159896
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	11/18/2022

Incident ID	nAPP2230983706
District RP	
Facility ID	fAB1904636949
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>51-100</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: *Each of the following items must be included in the report.*


- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☒ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

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

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2230983706
District RP	
Facility ID	fAB1904636949
Application ID	

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

Printed Name: Kelton Beaird Title: Environmental Manager
Signature:  Date: _____
email: kbeaird@btaoil.com Telephone: 432-312-2203

OCD Only

Received by: _____ Date: _____

Incident ID	nAPP2230983706
District RP	
Facility ID	fAB1904636949
Application ID	


Closure

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

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

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Kelton Beaird Title: Environmental Manager
Signature:  Date: _____
email: kbeaird@btaoil.com Telephone: 432-312-2203

OCD Only

Received by: _____ Date: _____

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: _____

Printed Name: _____ Title: _____

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QUESTIONS

Action 294623

QUESTIONS

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID:	260297
	Action Number:	294623
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2230983706
Incident Name	NAPP2230983706 OGDEN SUBSTATION TANK OVERFLOW @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Facility	[fAB1904636949] OGDEN 20509 SWD SUBSTATION TANK BATTERY

Location of Release Source	
Please answer all the questions in this group.	
Site Name	OGDEN SUBSTATION TANK OVERFLOW
Date Release Discovered	11/04/2022
Surface Owner	State

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Overflow - Tank, Pit, Etc. Pump Produced Water Released: 988 BBL Recovered: 972 BBL Lost: 16 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Pump failed to start. Overflowed water tanks. Secondary containment completely filled and overflowed. Recovered 100 BW with vacuum trucks from ground.

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QUESTIONS, Page 2

Action 294623

QUESTIONS (continued)

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID:	260297
	Action Number:	294623
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

Initial Response

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

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

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

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

I hereby agree and sign off to the above statement	Name: BTA ENSOLUM Title: Environmental Manager Email: kbeaird@btaoil.com Date: 12/14/2023
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QUESTIONS, Page 3

Action 294623

QUESTIONS (continued)

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID:	260297
	Action Number:	294623
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS**Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 51 and 75 (ft.)
What method was used to determine the depth to ground water	U.S. Geological Survey
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1000 (ft.) and ½ (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1000 (ft.) and ½ (mi.)
Any other fresh water well or spring	Between 1000 (ft.) and ½ (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Between ½ and 1 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Zero feet, overlying, or within area
Categorize the risk of this well / site being in a karst geology	High
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
---	-----

Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.

Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride (EPA 300.0 or SM4500 Cl B)	38000
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	400.9
GRO+DRO (EPA SW-846 Method 8015M)	348
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	11/21/2022
On what date will (or did) the final sampling or liner inspection occur	11/16/2023
On what date will (or was) the remediation complete(d)	11/16/2023
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	8845
What is the estimated volume (in cubic yards) that will be remediated	504

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 4

Action 294623

QUESTIONS (continued)

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID:	260297
	Action Number:	294623
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS**Remediation Plan (continued)**

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:

(Select all answers below that apply.)

(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	R360 Artesia LLC LANDFARM [FEEM0112340644]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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

I hereby agree and sign off to the above statement	Name: BTA ENSOLUM Title: Environmental Manager Email: kbeaird@btaoil.com Date: 12/14/2023
--	--

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 5

Action 294623

QUESTIONS (continued)

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID:
	260297
	Action Number:
	294623
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 294623

QUESTIONS (continued)

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID:	260297
	Action Number:	294623
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	294619
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	11/14/2023
What was the (estimated) number of samples that were to be gathered	57
What was the sampling surface area in square feet	8845

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	8845
What was the total volume (cubic yards) remediated	504
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	0
What was the total volume (in cubic yards) reclaimed	0
Summarize any additional remediation activities not included by answers (above)	Excavation was backfilled with non-waste containing soil. Area will be reclaimed upon pad P&A

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

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

I hereby agree and sign off to the above statement	Name: BTA ENSOLUM Title: Environmental Manager Email: kbeaird@btaoil.com Date: 12/14/2023
--	--

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QUESTIONS, Page 7

Action 294623

QUESTIONS (continued)

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297
	Action Number: 294623
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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CONDITIONS

Action 294623

CONDITIONS

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297
	Action Number: 294623
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	None	2/20/2024