ENSOLUM

June 28, 2024

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

Re: Closure Request Addendum
Poker Lake Unit 409
Incident Number NAPP2223751933
Eddy County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc. (XTO), has prepared the following addendum to the original *Closure Request* submitted on February 7, 2023. This addendum details the additional remediation activities completed at the Poker Lake Unit 409 (Site) in response to the denial of the original Closure Request by the New Mexico Oil Conservation Division (NMOCD). In the denial, NMOCD indicated additional delineation and/or confirmation soil sampling was required. Based on the additional remediation activities described below, XTO is submitting this *Closure Request Addendum* and requesting no further action for Incident Number NAPP2223751933.

BACKGROUND

The Site is located in Unit M, Section 22, Township 24 South, Range 31 East, in Eddy County, New Mexico (32.197077°, -103.772442°) and is associated with oil and gas exploration and production operations on Bureau of Land Management (BLM) Federal Land. (Figure 1).

On August 11, 2022, an open ball valve on a pipeline near the edge of the well pad was overlooked during routine inspection, causing the release of 100 barrels (bbls) of crude oil and 205.25 bbls of produced water onto the well pad and into the adjacent pasture where fluids pooled. A vacuum truck was immediately dispatched to the Site to recover the free-standing fluids; approximately 94.92 bbls of crude oil and 195.08 bbls of produced water were recovered. XTO reported the release to the NMOCD via email on August 11, 2022. On August 25, 2022, the release was assigned Incident Number NAPP2223751933.

Between September 2022 and December 2022, XTO conducted assessment, delineation and excavation activities in response to the release. The original excavation extent and confirmation soil samples are depicted on Figure 2. An estimated 870 cubic yards of impacted soil were excavated from the Site. Based on the site assessment activities and laboratory analytical results from the soil sampling events, XTO submitted a *Closure Request* on February 7, 2023, requesting no further action (NFA) for the release. The *Closure Request* and additional NMOCD correspondence is included in Appendix A.

The *Closure Request* detailed the site characterization completed to assess the applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Potential site receptors are identified on Figure 1. Referenced

well records are included in Appendix B. Based on the site characterization, the following NMOCD Table I Closure Criteria (Closure Criteria) were applied:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 20,000 mg/kg

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

On June 2, 2023, NMOCD denied the Closure Request for Incident Number NAB1802927873 for the following reasons:

- *"Sidewall samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. Sidewall soil sample location SW04 needs to be further delineated until chlorides meet 600 mg/kg. Sidewall soil sample location SW05 needs to be further delineated until TPH meets 100 mg/kg. The step-out sampling process to verify that the release stayed on pad is only valid if the entire release stayed on pad. If any portion of the release is off pad, all sidewall samples must be taken from the sidewall of the excavation."*

Additional excavation and confirmation soil sampling was scheduled to address the soil identified exceeding the reclamation requirement.

EXCAVATION SOIL SAMPLING ACTIVITIES

Between February 13, and March 18, 2024 XTO excavated waste-containing soil as indicated by laboratory analytical results for the confirmation soil samples, mainly SW04 and SW05 collected on the edge of pad from ground surface to 2 feet bgs. Excavation activities were performed using a backhoe and transport vehicle. The additional excavation occurred on pad. To direct excavation activities, soil was screened for volatile organic compounds (VOCs) and chloride utilizing a calibrated photoionization detector (PID) and Hach® chloride QuanTab® test strips, respectively. The excavation was completed to 4 feet bgs. Photographic documentation of the excavation activities is included in Appendix C.

Following removal of the impacted soil, 5-point composite soil samples were collected at least every 200 square feet from the sidewalls and from the floor 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. The excavation soil samples were placed directly into pre-cleaned glass jars, labeled with 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 Eurofins Testing (Eurofins) in Carlsbad, New Mexico or Cardinal Laboratories (Cardinal) in Hobbs, New Mexico, for analysis of the following contaminants of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0 or SM4500.

Composite floor samples FS01A through FS12A, FS14A through FS17A, FS19A through FS24B, FS30A, FS34A through FS37A, FS39A through FS41A, FS45A, FS46A, FS48A, FS49A, and FS51A were collected from the floor of the excavation at depths ranging from 3 feet to 4 feet bgs. Sidewall soil samples SW06 through SW14 were collected from the sidewalls of the excavation from ground surface to 4 feet bgs. The excavation extent and all the excavation soil sample locations are presented on Figure 3.

The total excavation area on pad measured approximately 10,500 square feet and, in the pasture, measured approximately 660 square feet. An additional 750 cubic yards of waste-containing soil was removed from the Site. A total of approximately 1,620 cubic yards of soil was removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Facility in Hobbs, New Mexico.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for all final confirmation soil samples indicated that all COC concentrations were compliant with the Closure Criteria. In addition, all sidewall soil samples were compliant with the reclamation requirement confirming the lateral delineation of the release. All confirmation soil samples collected in the pasture are compliant with the reclamation requirement. Laboratory analytical results are summarized in Table 1 and laboratory analytical reports are included as Appendix D.

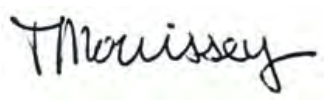
CLOSURE REQUEST

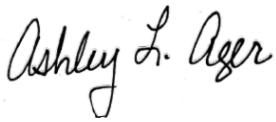
Excavation activities were conducted at the Site to address the August 11, 2022, release of crude oil and produced water. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated that all COC concentrations were compliant with the Site Closure Criteria and compliant with the reclamation requirement applied to the top four feet of the subsurface in the pasture. Based on the soil sample analytical results, no further remediation was required. XTO will backfill the excavation with material purchased locally and recontour the Site to match pre-existing site conditions. The disturbed pasture area will be re-seeded with an approved BLM seed mixture.

Excavation of impacted and waste-containing soil has mitigated impacts at this Site. Depth to groundwater has been estimated to be greater than 100 feet bgs and no other sensitive receptors were identified near the release extent. XTO believes these remedial actions are protective of human health, the environment, and groundwater. As such, XTO respectfully requests closure for Incident Number NAPP2223751933.

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

Sincerely,
Ensolum, LLC





Tacoma Morrissey
Associate Principal

Ashley Ager
Principal, M.S., PG

cc: Amy Ruth, XTO

Amanda Garcia, XTO
Bureau of Land Management

Appendices:

Figure 1	Site Receptor Map
Figure 2	February 7, 2023 Excavation Soil Sample Locations
Figure 3	Final Excavation Soil Sample Locations
Table 1	Soil Sample Analytical Results
Appendix A	February 7, 2023, Closure Request and NMOCD Correspondence
Appendix B	Referenced Well Records
Appendix C	Photographic Log
Appendix D	Laboratory Analytical Reports & Chain-of-Custody Documentation

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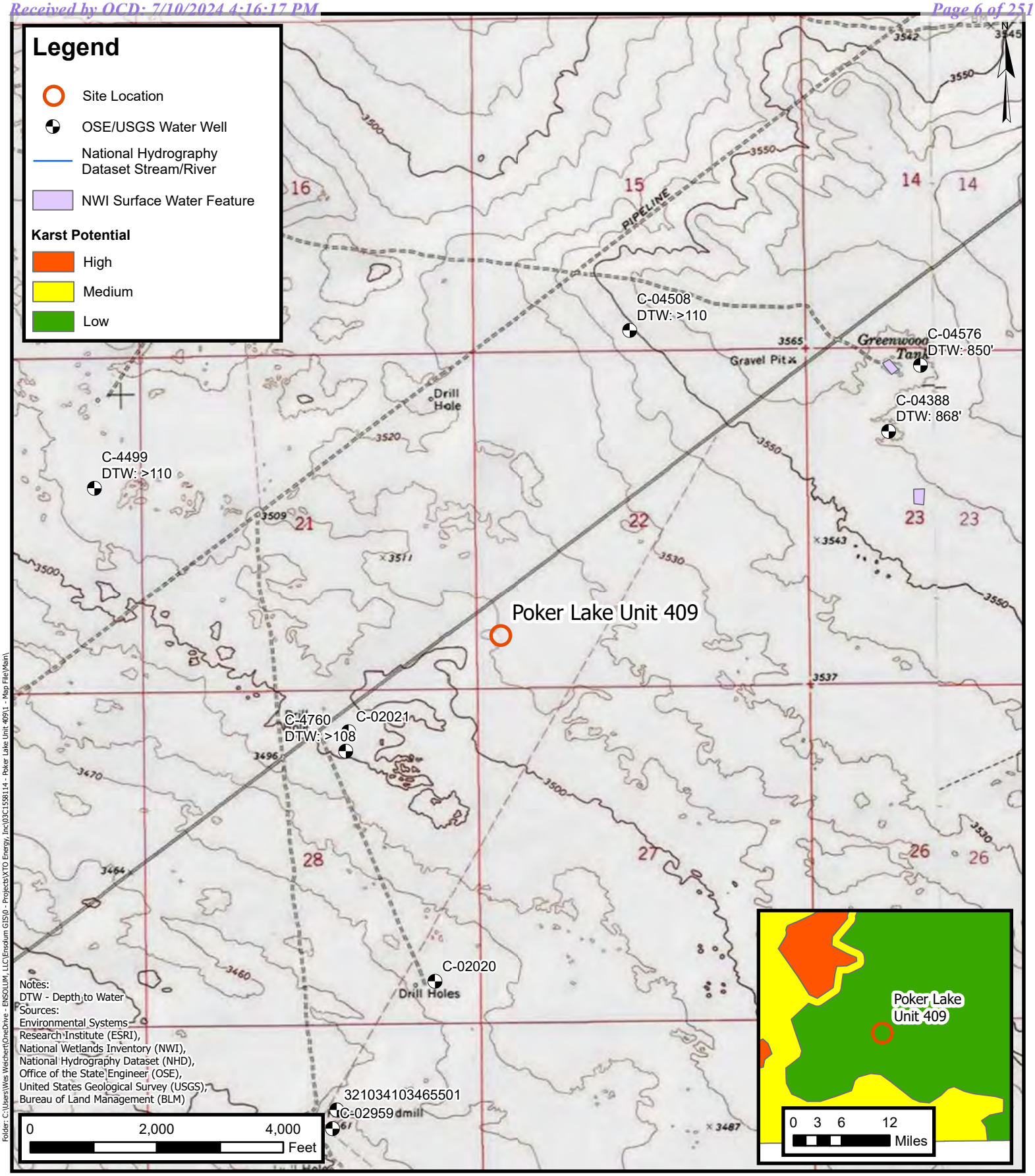
FIGURES



Folder: C:\Users\Wes Weichert\OneDrive - ENSOLUM, LLC\Ensolum GIS\0 - Projects\XTO Energy, Inc\03C1588114 - Poker Lake Unit 409\1 - Map File\Main\

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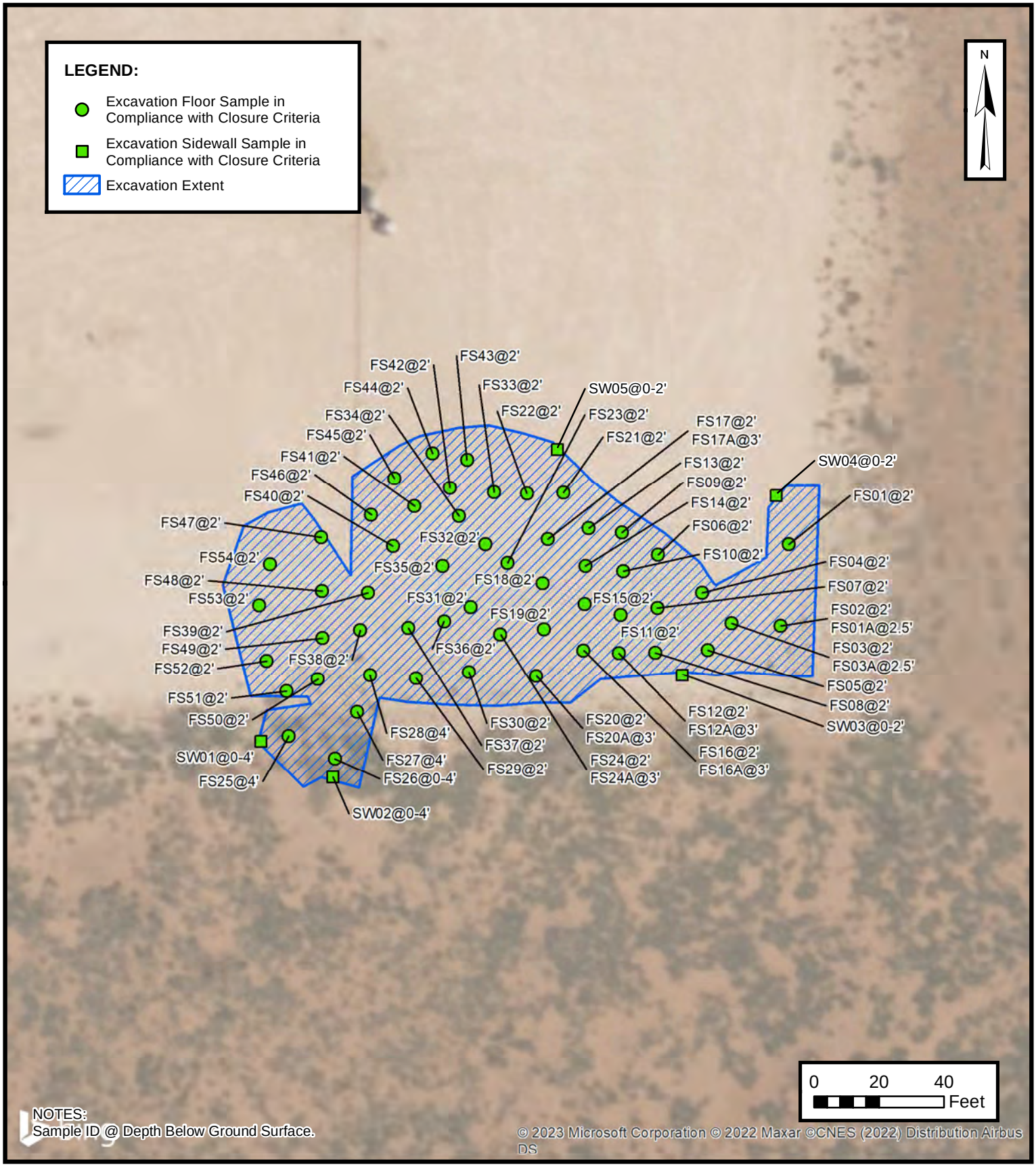
Environmental, Engineering and Hydrogeologic Consultants

Site Receptor Map

XTO Energy, Inc
Poker Lake Unit 409
Incident Number: NAPP2223751933
Unit M Sec 22 T24S R31E
Eddy County, New Mexico

FIGURE 1



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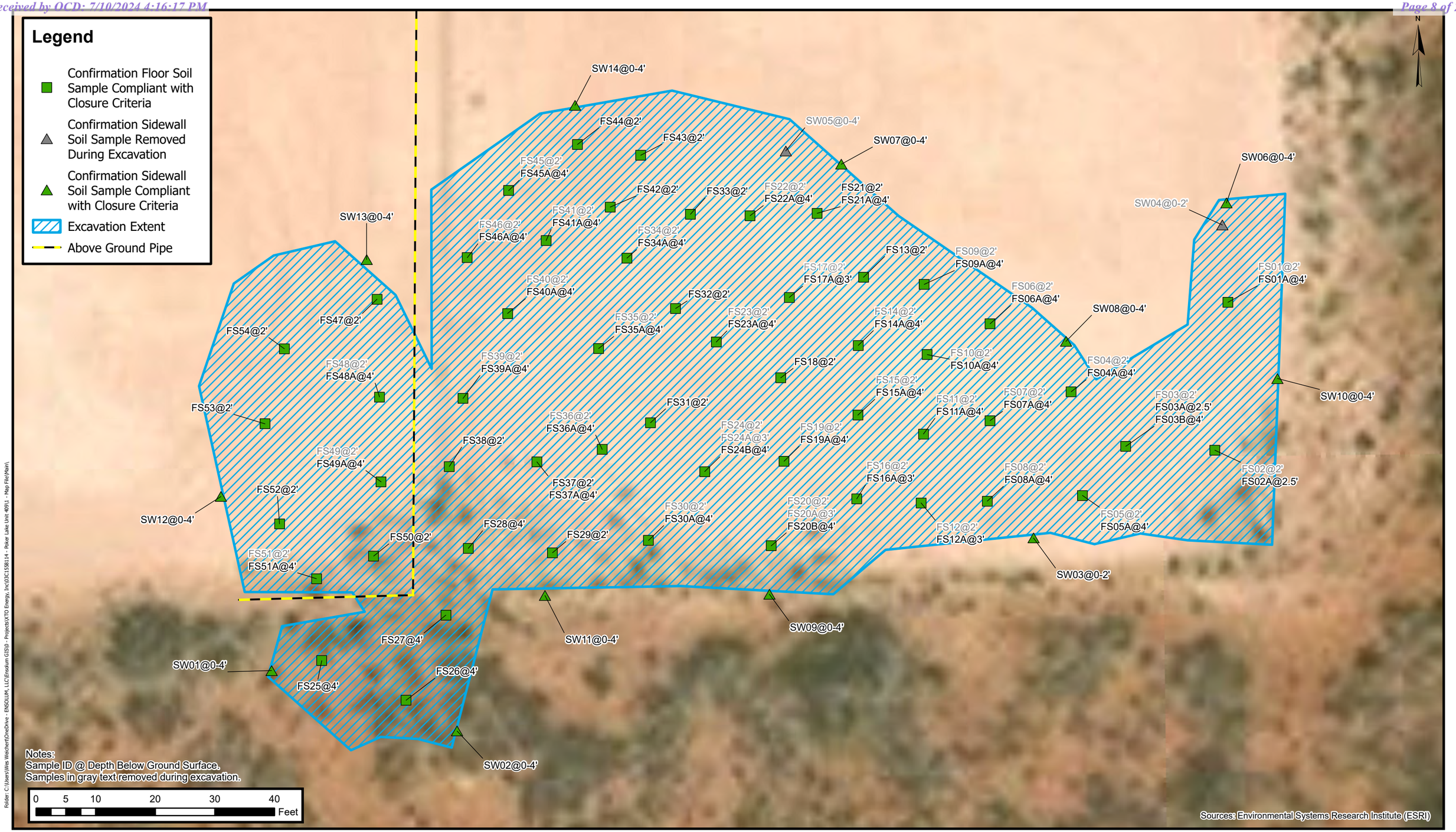
February 7, 2023 Excavation Soil Sample Locations

XTO ENERGY, INC
POKER LAKE UNIT 409
NAPP2223751933
Unit M, Sec 22, T24S, R31E
Eddy County, New Mexico

FIGURE
3



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Final Excavation Soil Sample Locations

XTO Energy, Inc
Poker Lake Unit 409
Incident Number: NAPP2223751933
Unit M Sec 22 T24S R31E
Eddy County, New Mexico

FIGURE 3

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TABLES

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TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Poker Lake Unit 409
XTO Energy, Inc
Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Delineation Soil Samples										
~~SS01~~	~~09/23/2022~~	~~0.5~~	~~<0.199~~	~~18.0~~	~~1,000~~	~~28,700~~	~~4,370~~	~~**29,700**~~	~~**34,100**~~	~~**920**~~
~~SS02~~	~~09/23/2022~~	~~0.5~~	~~<0.202~~	~~1.87~~	~~<499~~	~~20,600~~	~~3,090~~	~~**20,600**~~	~~**23,700**~~	~~**1,180**~~
~~SS03~~	~~09/23/2022~~	~~0.5~~	~~<0.199~~	~~1.32~~	~~<500~~	~~28,400~~	~~4,230~~	~~**28,400**~~	~~**32,600**~~	~~**4,100**~~
~~SS04~~	~~09/23/2022~~	~~0.5~~	~~<0.00198~~	~~<0.00396~~	~~<50.0~~	~~1,400~~	~~244~~	~~**1,400**~~	~~**1,640**~~	~~**1,410**~~
~~SS05~~	~~09/23/2022~~	~~0.5~~	~~<0.199~~	~~7.99~~	~~417~~	~~9,350~~	~~1,210~~	~~**9,767**~~	~~**11,000**~~	~~**2,190**~~
~~SS06~~	~~09/23/2022~~	~~0.5~~	~~<0.201~~	~~4.37~~	~~<499~~	~~28,600~~	~~4,090~~	~~**28,600**~~	~~**32,700**~~	~~**4,040**~~
SS07	09/23/2022	0.5	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	23.3
SS08	09/23/2022	0.5	<0.00202	0.0253	<50.0	<50.0	<50.0	<50.0	<50.0	15.0
SS09	09/23/2022	0.5	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	12.3
SS10	09/23/2022	0.5	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	13.3
~~PH01~~	~~10/27/2022~~	~~1~~	~~<0.00201~~	~~<0.00402~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~**1,790**~~
PH01A	10/27/2022	4	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	49.6
~~PH02~~	~~10/27/2022~~	~~1~~	~~<0.00199~~	~~<0.00398~~	~~<49.8~~	~~<49.8~~	~~<49.8~~	~~<49.8~~	~~<49.8~~	~~**4,160**~~
~~PH02A~~	~~10/27/2022~~	~~4~~	~~<0.00199~~	~~<0.00398~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~9,810~~
Confirmation Floor Soil Samples										
~~FS01~~	~~10/31/2022~~	~~2~~	~~<0.00200~~	~~<0.00401~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~**1,440**~~
FS01A	02/14/2024	4	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	125
~~FS02~~	~~10/31/2022~~	~~2~~	~~0.208~~	~~5.90~~	~~273~~	~~731~~	~~<49.9~~	~~1,004~~	~~**1,000**~~	~~**853**~~
FS02A	11/04/2022	3	<0.00201	<0.00402	<50.0	<50.0	79.9	<50.0	79.9	952
~~FS03~~	~~10/31/2022~~	~~2~~	~~0.465~~	~~7.37~~	~~401~~	~~2110~~	~~<50.0~~	~~2,511~~	~~**2,510**~~	~~209~~
~~FS03A~~	~~11/04/2022~~	~~3~~	~~<0.00198~~	~~<0.00396~~	~~<50.0~~	~~635~~	~~619~~	~~635~~	~~**1,250**~~	~~467~~
FS03B	02/14/2024	4	<0.00201	<0.00402	<50.4	<50.4	<50.4	<50.4	<50.4	94.8
~~FS04~~	~~10/31/2022~~	~~2~~	~~0.216~~	~~0.806~~	~~69.3~~	~~238~~	~~<49.9~~	~~307~~	~~**307**~~	~~254~~
FS04A	02/14/2024	4	<0.00201	<0.00402	<50.3	<50.3	<50.3	<50.3	<50.3	75.4
~~FS05~~	~~10/31/2022~~	~~2~~	~~<0.00200~~	~~<0.00399~~	~~<50.0~~	~~557~~	~~<50.0~~	~~557~~	~~**557**~~	~~184~~
FS05A	02/14/2024	4	<0.00202	<0.00404	<50.3	<50.3	<50.3	<50.3	<50.3	119
~~FS06~~	~~10/31/2022~~	~~2~~	~~0.237~~	~~1.18~~	~~65.8~~	~~422~~	~~<49.9~~	~~488~~	~~**488**~~	~~584~~
FS06A	02/14/2024	4	<0.00200	<0.00399	<50.4	65.2	<50.4	65.2	65.2	84.4
~~FS07~~	~~10/31/2022~~	~~2~~	~~<0.00200~~	~~<0.00401~~	~~<49.9~~	~~176~~	~~<49.9~~	~~176~~	~~**176**~~	~~**758**~~
FS07A	02/14/2024	4	<0.00198	<0.00396	<49.8	<49.8	<49.8	<49.8	<49.8	2,190
~~FS08~~	~~10/31/2022~~	~~2~~	~~0.189~~	~~0.230~~	~~65.7~~	~~856~~	~~<50.0~~	~~922~~	~~**922**~~	~~279~~
FS08A	02/14/2024	4	<0.00200	<0.00400	<49.6	<49.6	<49.6	<49.6	<49.6	2,070

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Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
~~FS09~~	~~11/01/2022~~	~~2~~	~~<0.00200~~	~~0.0155~~	~~<49.9~~	~~129~~	~~<49.9~~	~~129~~	~~**129**~~	~~62.3~~
FS09A	02/14/2024	4	<0.00202	<0.00403	<49.7	<49.7	<49.7	<49.7	<49.7	62.9
~~FS10~~	~~11/01/2022~~	~~2~~	~~<0.00199~~	~~0.00884~~	~~<50.0~~	~~863~~	~~110~~	~~863~~	~~**973**~~	~~**190**~~
FS10A	02/14/2024	4	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	69.0
~~FS11~~	~~11/01/2022~~	~~2~~	~~<0.00199~~	~~<0.00398~~	~~<50.0~~	~~576~~	~~73.8~~	~~576~~	~~**650**~~	~~**803**~~
FS11A	02/14/2024	4	<0.00200	<0.00399	<49.6	<49.6	<49.6	<49.6	<49.6	406
~~FS12~~	~~11/01/2022~~	~~2~~	~~<0.00200~~	~~<0.00399~~	~~<49.9~~	~~1220~~	~~164~~	~~1,220~~	~~**1,380**~~	~~304~~
FS12A	11/08/2022	3	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	23.2
FS13	11/01/2022	2	<0.00199	0.00715	<50.0	62.2	<50.0	62.2	62.2	41.2
~~FS14~~	~~11/01/2022~~	~~2~~	~~<0.00199~~	~~0.00940~~	~~<49.9~~	~~415~~	~~51.5~~	~~415~~	~~**467**~~	~~248~~
FS14A	02/14/2024	4	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	<49.9	2,810
~~FS15~~	~~11/01/2022~~	~~2~~	~~<0.00200~~	~~0.00866~~	~~<49.9~~	~~710~~	~~94.7~~	~~710~~	~~**805**~~	~~**614**~~
FS15A	02/14/2024	4	<0.00198	<0.00396	<50.2	<50.2	<50.2	<50.2	<50.2	165
~~FS16~~	~~11/01/2022~~	~~2~~	~~<0.00200~~	~~0.129~~	~~127~~	~~2740~~	~~406~~	~~2,867~~	~~**3,270**~~	~~**851**~~
FS16A	11/08/2022	3	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	269
~~FS17~~	~~11/01/2022~~	~~2~~	~~<0.00199~~	~~0.147~~	~~113~~	~~1660~~	~~222~~	~~1,773~~	~~**2,000**~~	~~**582**~~
FS17A	11/08/2022	3	<0.00200	<0.00400	<49.8	<49.8	<49.8	<49.8	<49.8	40.2
FS18	11/01/2022	2	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	182
~~FS19~~	~~11/01/2022~~	~~2~~	~~<0.00200~~	~~0.00432~~	~~<49.9~~	~~418~~	~~<49.9~~	~~418~~	~~**418**~~	~~**2,440**~~
FS19A	02/14/2024	4	<0.00199	<0.00398	<50.4	57.6	<50.4	57.6	57.6	711
~~FS20~~	~~11/01/2022~~	~~2~~	~~<0.00200~~	~~0.566~~	~~327~~	~~1870~~	~~<50.0~~	~~2,197~~	~~**2,200**~~	~~**1,140**~~
~~FS20A~~	~~11/08/2022~~	~~3~~	~~<0.00199~~	~~<0.00398~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~**8,690**~~
FS20B	02/14/2024	4	<0.00198	<0.00396	<50.4	550	<50.4	550	550	1,770
~~FS21~~	~~11/01/2022~~	~~2~~	~~<0.00199~~	~~0.426~~	~~98.8~~	~~435~~	~~<49.9~~	~~534~~	~~534~~	~~39.8~~
FS21A	02/14/2024	4	<0.00202	<0.00404	<49.8	<49.8	<49.8	<49.8	<49.8	98.8
~~FS22~~	~~11/03/2022~~	~~2~~	~~<0.00201~~	~~<0.00402~~	~~<49.8~~	~~386~~	~~<49.8~~	~~386~~	~~386~~	~~128~~
FS22A	02/14/2024	4	<0.00201	<0.00402	<49.7	<49.7	<49.7	<49.7	<49.7	111
~~FS23~~	~~11/03/2022~~	~~2~~	~~<0.00199~~	~~<0.00398~~	~~<50.0~~	~~468~~	~~<50.0~~	~~468~~	~~468~~	~~764~~
FS23A	02/14/2024	4	<0.00202	<0.00403	<50.1	<50.1	<50.1	<50.1	<50.1	834
~~FS24~~	~~11/03/2022~~	~~2~~	~~<0.00199~~	~~0.0531~~	~~128~~	~~1,120~~	~~<49.9~~	~~1,248~~	~~1,250~~	~~915~~
~~FS24A~~	~~12/20/2022~~	~~3~~	~~<0.00200~~	~~<0.00399~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~7,320~~
FS24B	02/14/2024	4	<0.00199	<0.00398	<50.1	<50.1	<50.1	<50.1	<50.1	259
FS25	11/03/2022	4	<0.00200	0.0199	<49.9	581	<49.9	581	581	590

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Poker Lake Unit 409
XTO Energy, Inc
Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
FS26	11/03/2022	4	<0.00202	0.0365	<50.0	205	<50.0	205	205	493
FS27	11/04/2022	4	<0.00199	<0.00398	<50.0	55.2	<50.0	55.2	55.2	7,490
FS28	11/04/2022	4	<0.00200	<0.00399	<50.0	152	125	152	277	10,300
FS29	11/04/2022	2	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	146
~~FS30~~	~~11/04/2022~~	~~2~~	~~<0.00200~~	~~<0.00399~~	~~<50.0~~	~~490~~	~~356~~	~~490~~	~~846~~	~~428~~
FS30A	02/14/2024	4	<0.00201	<0.00402	<50.5	108	<50.5	108	108	995
FS31	11/04/2022	2	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	972
FS32	11/04/2022	2	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	870
FS33	11/04/2022	2	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	38.4
~~FS34~~	~~11/04/2022~~	~~2~~	~~<0.00200~~	~~<0.00401~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~1,570~~
FS34A	02/14/2024	4	<0.00200	<0.00399	<49.6	<49.6	<49.6	<49.6	<49.6	7,020
~~FS35~~	~~11/04/2022~~	~~2~~	~~<0.00201~~	~~<0.00402~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~3,330~~
FS35A	02/14/2024	4	<0.00199	<0.00398	<50.2	<50.2	<50.2	<50.2	<50.2	8,490
~~FS36~~	~~11/04/2022~~	~~2~~	~~<0.00199~~	~~<0.00398~~	~~<50.0~~	~~78.5~~	~~57.3~~	~~78.5~~	~~136~~	~~872~~
FS36A	02/14/2024	4	<0.00198	<0.00396	<50.4	<50.4	<50.4	<50.4	<50.4	5,080
~~FS37~~	~~11/04/2022~~	~~2~~	~~<0.00199~~	~~<0.00398~~	~~<49.8~~	~~168~~	~~308~~	~~168~~	~~476~~	~~228~~
FS37A	02/14/2024	4	<0.00202	<0.00403	<50.5	<50.5	<50.5	<50.5	<50.5	7,490
FS38	11/04/2022	2	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	67.3
~~FS39~~	~~11/08/2022~~	~~2~~	~~<0.00201~~	~~<0.00402~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~475~~
FS39A	02/13/2024	4	<0.00198	<0.00397	<49.8	<49.8	<49.8	<49.8	<49.8	3,110
~~FS40~~	~~11/08/2022~~	~~2~~	~~<0.00198~~	~~<0.00396~~	~~<49.8~~	~~208~~	~~<49.8~~	~~208~~	~~208~~	~~702~~
FS40A	02/14/2024	4	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	2,400
~~FS41~~	~~11/08/2022~~	~~2~~	~~<0.00200~~	~~<0.00399~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~1,280~~
FS41A	02/14/2024	4	<0.00199	<0.00398	<49.7	<49.7	<49.7	<49.7	<49.7	1,740
FS42	11/08/2022	2	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	41.7
FS43	11/08/2022	2	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	14.1
FS44	11/08/2022	2	<0.00198	<0.00397	<50.0	<50.0	<50.0	<50.0	<50.0	23.9
~~FS45~~	~~11/08/2022~~	~~2~~	~~<0.00199~~	~~<0.00398~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~1,480~~
FS45A	02/13/2024	4	<0.00201	<0.00402	<49.7	<49.7	<49.7	<49.7	<49.7	77.7
~~FS46~~	~~11/08/2022~~	~~2~~	~~<0.00199~~	~~<0.00398~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~2,420~~
FS46A	02/13/2024	4	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	1,040
FS47	11/08/2022	2	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	20.9

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TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Poker Lake Unit 409
XTO Energy, Inc
Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
~~FS48~~	~~11/08/2022~~	~~2~~	~~<0.00202~~	~~<0.00404~~	~~<49.9~~	~~608~~	~~95.3~~	~~608~~	~~703~~	~~3,610~~
FS48A	02/13/2024	4	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	147
~~FS49~~	~~11/08/2022~~	~~2~~	~~<0.00199~~	~~<0.00398~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~2,370~~
FS49A	02/13/2024	4	<0.00198	<0.00396	<50.5	<50.5	<50.5	<50.5	<50.5	4,780
FS50	11/08/2022	2	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	232
~~FS51~~	~~11/08/2022~~	~~2~~	~~<0.00202~~	~~<0.00403~~	~~<50.0~~	~~92.9~~	~~<50.0~~	~~92.9~~	~~92.9~~	~~7,780~~
FS51A	02/13/2024	4	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	<49.9	185
FS52	11/08/2022	2	<0.00200	0.0111	<49.9	<49.9	<49.9	<49.9	<49.9	26.6
FS53	11/08/2022	2	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	32.7
FS54	11/08/2022	2	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	14.6
Confirmation Sidewall Soil Samples										
SW01	11/03/2022	0-4	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	25.3
SW02	11/03/2022	0-4	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	27.7
SW03	11/04/2022	0-2	<0.00201	<0.00402	<49.9	<49.9	90.0	<49.9	90.0	33.5
~~SW04~~	~~11/04/2022~~	~~0-2~~	~~<0.00199~~	~~<0.00398~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~**1,120**~~
~~SW05~~	~~11/04/2022~~	~~0-2~~	~~<0.00199~~	~~<0.00398~~	~~<50.0~~	~~58.8~~	~~56.3~~	~~58.8~~	~~**115**~~	~~521~~
SW06	02/14/2024	0-4	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	110
SW07	02/14/2024	0-4	<0.00200	<0.00400	<49.8	<49.8	<49.8	<49.8	<49.8	61.8
SW08	02/14/2024	0-4	<0.00202	<0.00403	<50.2	<50.2	<50.2	<50.2	<50.2	83.7
SW09	02/14/2024	0-4	<0.00201	<0.00402	<50.3	<50.3	<50.3	<50.3	<50.3	44.7
SW10	03/18/2024	0-4	<0.05000	<0.30000	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SW11	03/18/2024	0-4	<0.05000	<0.30000	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SW12	03/18/2024	0-4	<0.05000	<0.30000	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SW13	03/18/2024	0-4	<0.05000	<0.30000	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW14	03/18/2024	0-4	<0.05000	<0.30000	<10.0	<10.0	<10.0	<10.0	<10.0	176

Notes:

bgs: below ground surface
mg/kg: milligrams per kilogram
NMOCD: New Mexico Oil Conservation Division
BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes
Concentrations in **bold** exceed the NMOCD Table 1 Closure Criteria or reclamation requirement where applicable.
GRO: Gasoline Range Organics
DRO: Diesel Range Organics
ORO: Oil Range Organics
TPH: Total Petroleum Hydrocarbon
NMAC: New Mexico Administrative Code
~~Grey~~ text indicates soil sample removed during excavation activities

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APPENDIX A

February 7, 2023, Closure Request and NMOCD Correspondence

ENSOLUM

February 6, 2023

District II
New Mexico Oil Conservation Division
811 S. First St.
Artesia, New Mexico 88210

Re: Closure Request
Poker Lake Unit 409
Incident Number NAPP2223751933
Eddy County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum) on behalf of XTO Energy, Inc. (XTO), has prepared this Closure Request to document site assessment, excavation, and soil sampling activities performed at the Poker Lake Unit 409 (Site). The purpose of the excavation and soil sampling activities was to address impacts to soil resulting from a release of crude oil and produced water at the Site. Based on the excavation activities and analytical results from the soil sampling events, XTO is submitting this Closure Request, describing remediation that has occurred and requesting no further action for Incident Number NAPP2223751933.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit M, Section 22, Township 24 South, Range 31 East, in Eddy County, New Mexico (32.197077°, -103.772442°) and is associated with oil and gas exploration and production operations on Bureau of Land Management (BLM) Federal Land. (Figure 1).

On August 11, 2022, an open ball valve on a pipeline near the edge of the well pad was overlooked during routine inspection, causing the release of 100 barrels (bbls) of crude oil and 205.25 bbls of produced water onto the well pad and into the adjacent pasture where fluids pooled. A vacuum truck was immediately dispatched to the Site to recover the free-standing fluids; approximately 94.92 bbls of crude oil and 195.08 bbls of produced water were recovered. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) via email on August 11, 2022. On August 25, 2022, the release was assigned Incident Number NAPP2223751933.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess the applicability of Table 1, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the NMAC. Results from the characterization desktop review are presented on page 3 of the Form C-141, Site Assessment/Characterization.

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on regional groundwater well data. The nearest groundwater well with current data is a soil boring (C-4508) permitted by the New Mexico Office of the State Engineer (NMOSE) located approximately 0.9

miles north of the Site. The soil boring was drilled to a maximum depth of 110 feet bgs and left open for at least 72 hours to allow for the slow infill of groundwater. No groundwater was encountered indicating depth to water is greater that 110 feet bgs. Two additional soil borings, C-4499 drilled in 2020 located 1 mile to the northwest, indicates depth to water is greater than 111 feet bgs and C-04633 drilled in 2022 located 1.7 miles southeast indicates depth to water is at least 55 feet bgs, the boring was not drilled deeper. Seven wells within a 2-mile radius of the Site in all cardinal directions indicate depth to water is greater than 100 feet bgs. There are no topographic or vegetative indications of shallow groundwater near the Site.

The closest continuously flowing or significant watercourse to the Site is a small emergent wetland located approximately 7,680 feet northeast of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

Based on the results of the Site Characterization, detailed in the Work Plan, the following NMOCD Table 1 Closure Criteria (Closure Criteria) apply:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 20,000 mg/kg

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

SITE ASSESSMENT AND DELINEATION ACTIVITIES

On September 23, 2022, Ensolum personnel visited 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 extent from a depth of 0.5 feet bgs to assess the lateral exent. The soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride 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 Septmeber 27, 2022, Ensolum personnel were at the Site to oversee delineation activities. Potholes PH01 and PH02 were advanced via backhoe to a depth of 4 feet bgs within the release extent, to assess the vertical extent of the release. Delineation soil samples were collected from each pothole at depths ranging from 0.5 feet to 4 feet bgs. Soil from the potholes were field screened as described above. Field screening results and observations for the potholes were logged on lithologic/soil sampling logs, which are included in Table 1. 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 Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of the following contaminants of concern (COC): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0. Soil samples delivered to the laboratory the same day they are collected may not have equilabrated to the temperatures required for shipment and long term storage, but are considered to have been collected within acceptable conditions.

Laboratory analytical results for soil samples SS01 through SS06, collected within the release extent indicated that TPH-GRO/TPH-DRO and TPH concentrations exceeded the Closure Criteria. Laboratory analytical results for preliminary soil samples SS07 through SS10, collected around the release extent, indicated that all COC concentrations were compliant with the strictest Table 1 Closure Criteria, and confirmed the lateral extent of the release. Laboratory analytical results for all other delineation soil samples, PH01/PH01A and PH02/PH02A indicated that all COC concentrations are compliant with the Closure Criteria, however, PH02 collected at 1 foot bgs exceeds reclamation requirement applied in the top 4 feet of the pasture. Laboratory analytical results are summarized in Table 1 and laboratory analytical reports are included in Appendix C.

EXCAVATION SOIL SAMPLING ACTIVITIES

Between October 31, 2022 and December 20, 2022, XTO excavated impacted soil as indicated by visible staining, laboratory analytical results for the delineation soil samples, and field screening results for the delineation soil samples. Excavation activities were performed using a backhoe and transport vehicle. The excavation occurred on pad and in the pasture area south of the pad. To direct excavation activities, soil was screened for volatile organic compounds (VOCs) and chloride utilizing a calibrated photoionization detector (PID) and Hach® chloride QuanTab® test strips, respectively. The excavation was completed to 4 feet bgs in the pasture and 2 to 3 feet bgs on the pad. Photographic documentation of the excavation activities is included in Appendix B.

Following removal of the impacted soil, 5-point composite soil samples were collected at least every 200 square feet from the sidewalls and from the floor 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. The excavation soil samples were placed directly into pre-cleaned glass jars, labeled with location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were handled as described above and transported to Eurofins in Carlsbad, New Mexico.

Composite floor samples FS01 through FS24, and FS28 through FS54 were collected from the floor of the on-pad excavation at a depth of 2 to 3 feet bgs. The excavation extent and excavation soil sample locations are presented on Figure 3. Sidewall soil samples SW03 through SW05 were collected from the sidewalls of portions of the on-pad excavation from ground surface to 2 feet bgs. Composite floor samples FS25 through FS27 were collected from the floor of the pasture excavation at a depth of 4 feet bgs. Sidewall soil samples SW01 and SW02 were collected from the sidewalls of the excavation in the pasture from depths ranging from the ground surface to 4 feet bgs.

Floor samples FS02, FS03, FS12, FS16, FS17, FS20, and FS24, collected at 2 feet bgs on pad contained soil with TPH-GRO/TPH-DRO and/ or TPH concentrations exceeding the Closure Criteria. These areas were further excavated to approximately 3 feet bgs and resampled.

The excavation area on pad measured approximately 10,500 square feet and, in the pasture, measured approximately 660 square feet. A total of approximately 870 cubic yards of impacted soil was removed

during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Facility in Hobbs, New Mexico.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for final confirmation soil samples samples indicated that all COC concentrations were compliant with the Closure Criteria. In addition, all confirmation samples collected in the pasture were compliant with the reclamation requirement. Laboratory analytical results are summarized in Table 1 and laboratory analytical reports are included as Appendix C.

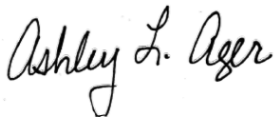
CLOSURE REQUEST

Excavation activities were conducted at the Site to address the August 11, 2022, release of crude oil and produced water. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated that all COC concentrations were compliant with the Site Closure Criteria and compliant with the reclamation requirement applied to the top four feet of the subsurface in the pasture. Based on the soil sample analytical results, no further remediation was required. XTO will backfill the excavation with material purchased locally and recontour the Site to match pre-existing site conditions. The disturbed pasture area will be re-seeded with an approved BLM seed mixture.

Excavation of impacted soil has mitigated impacts at this Site. Depth to groundwater has been estimated to be greater than 100 feet bgs and no other sensitive receptors were identified near the release extent. XTO believes these remedial actions are protective of human health, the environment, and groundwater. As such, XTO respectfully requests closure for Incident Number NAPP2223751933.

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

Sincerely,
Ensolum, LLC



Kase Parker
Field Scientist

Ashley Ager
Principal, M.S., PG

cc: Garrett Green, XTO
Shelby Pennington, XTO
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

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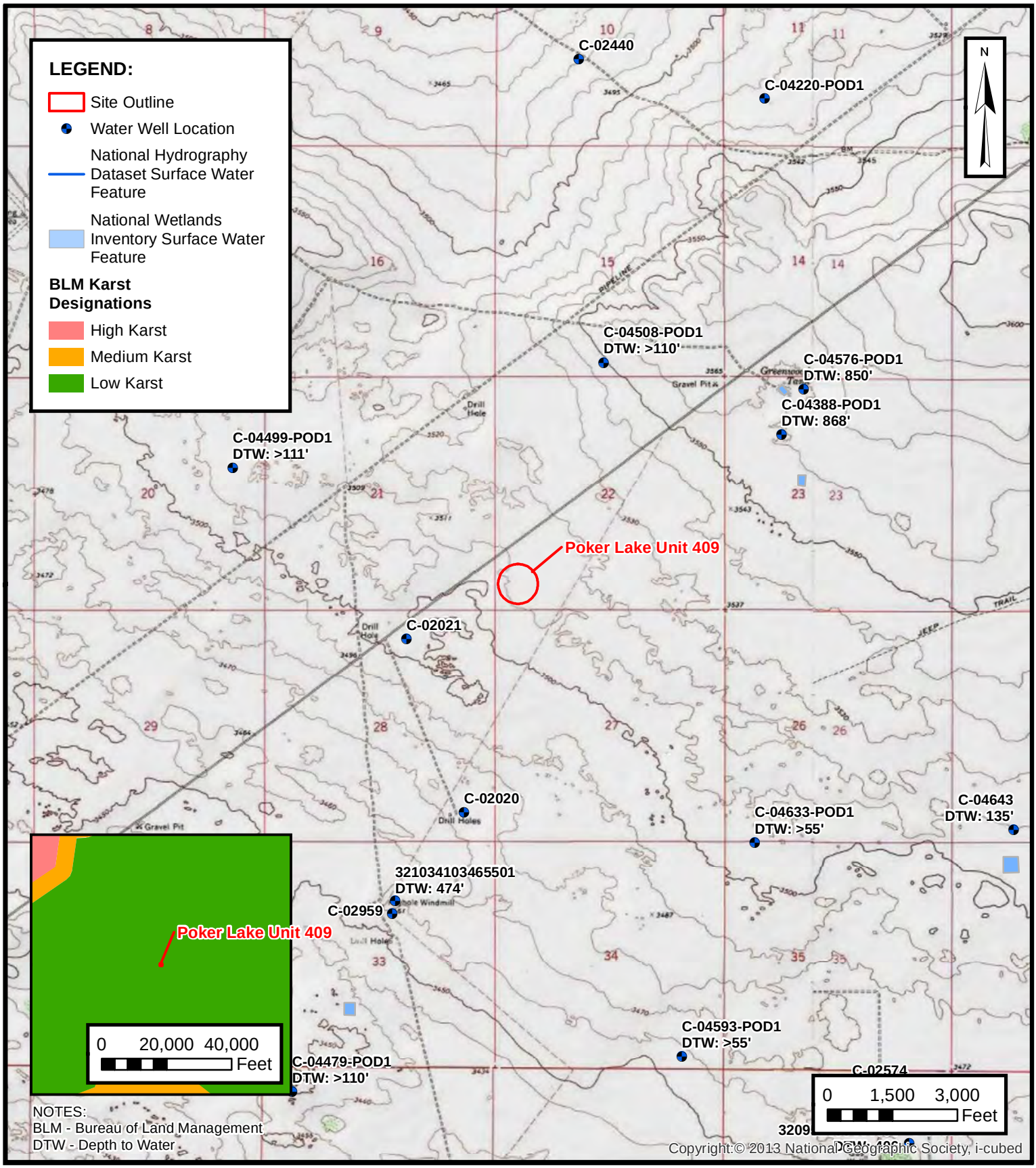
FIGURES



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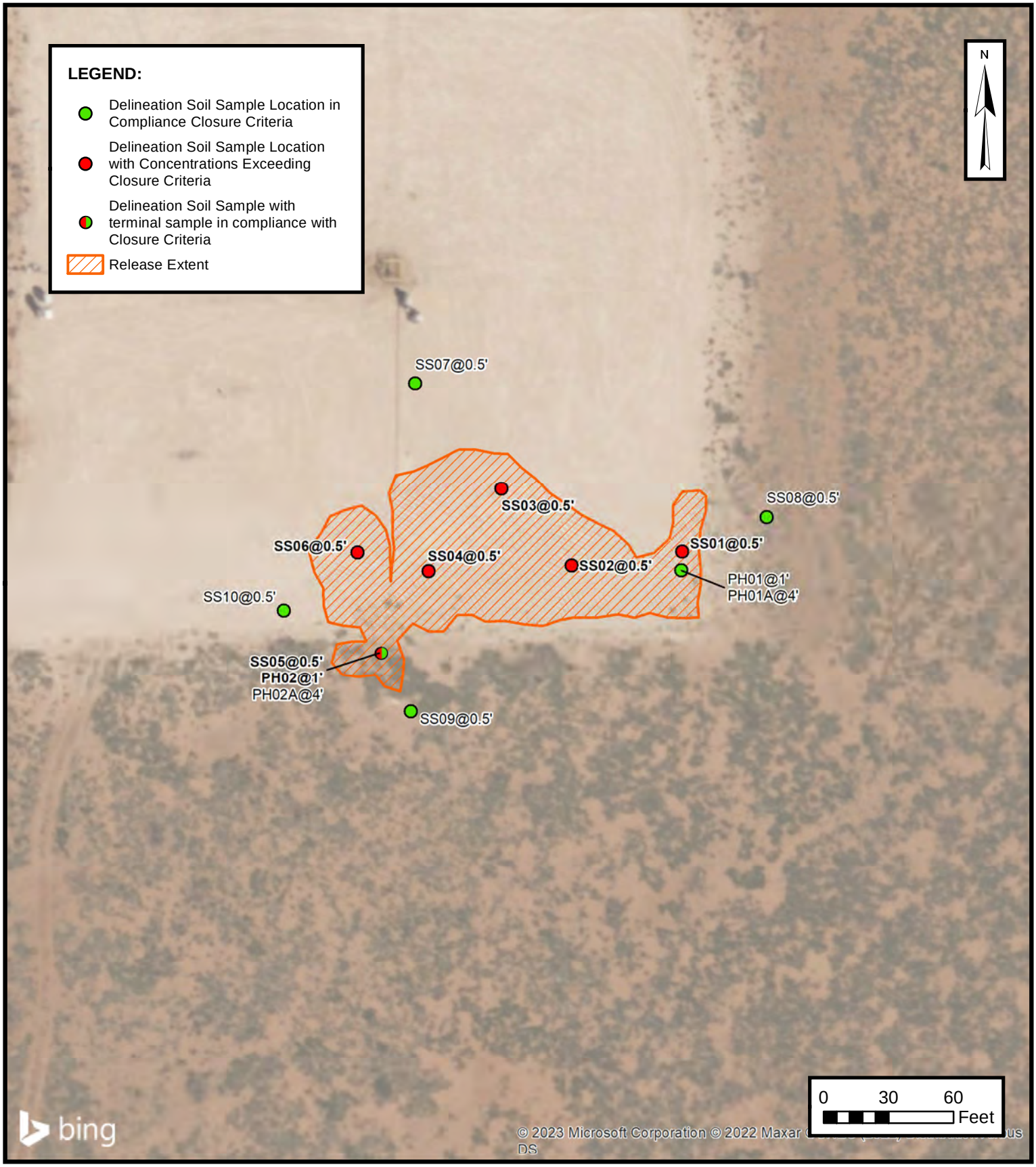
Environmental, Engineering and Hydrogeologic Consultants

SITE RECEPTOR MAP

XTO ENERGY, INC
POKER LAKE UNIT 409
NAPP2223751933
Unit M, Sec 22, T24S, R31E
Eddy County, New Mexico

FIGURE
1



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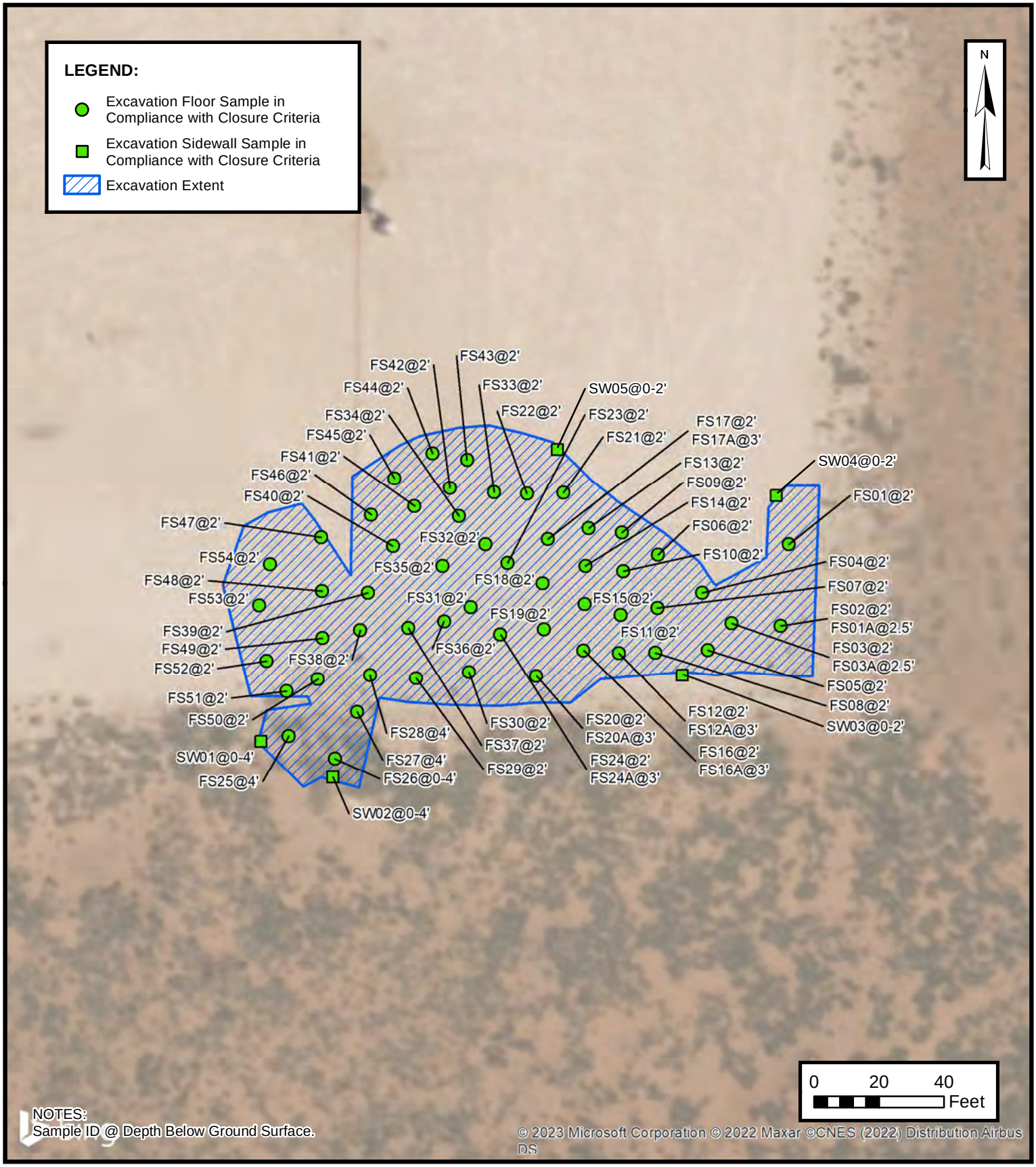
PRELIMINARY SOIL SAMPLE LOCATIONS

XTO ENERGY, INC
POKER LAKE UNIT 409
NAPP2223751933
Unit M, Sec 22, T24S, R31E
Eddy County, New Mexico

FIGURE
2



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EXCAVATION SOIL SAMPLE LOCATIONS

XTO ENERGY, INC
POKER LAKE UNIT 409
NAPP2223751933
Unit M, Sec 22, T24S, R31E
Eddy County, New Mexico

FIGURE
3

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TABLES

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TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
POKER LAKE UNIT 409
XTO ENERGY, INC.
EDDY COUNTY, NEW MEXICO

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Delineation Soil Samples										
~~SS01~~	~~09/23/2022~~	~~0.5'~~	~~<0.199~~	~~18.0~~	~~1,000~~	~~28,700~~	~~4,370~~	~~**29,700**~~	~~**34,100**~~	~~920~~
~~SS02~~	~~09/23/2022~~	~~0.5'~~	~~<0.202~~	~~1.87~~	~~<499~~	~~20,600~~	~~3,090~~	~~**20,600**~~	~~**23,700**~~	~~1,180~~
~~SS03~~	~~09/23/2022~~	~~0.5'~~	~~<0.199~~	~~1.32~~	~~<500~~	~~28,400~~	~~4,230~~	~~**28,400**~~	~~**32,600**~~	~~4,100~~
~~SS04~~	~~09/23/2022~~	~~0.5'~~	~~<0.00198~~	~~<0.00396~~	~~<50.0~~	~~1,400~~	~~244~~	~~**1,400**~~	~~1,640~~	~~**1,410**~~
~~SS05~~	~~09/23/2022~~	~~0.5'~~	~~<0.199~~	~~7.99~~	~~417~~	~~9,350~~	~~1,210~~	~~**9,767**~~	~~**11,000**~~	~~2,190~~
~~SS06~~	~~09/23/2022~~	~~0.5'~~	~~<0.201~~	~~4.37~~	~~<499~~	~~28,600~~	~~4,090~~	~~**28,600**~~	~~**32,700**~~	~~4,040~~
SS07	09/23/2022	0.5'	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	23.3
SS08	09/23/2022	0.5'	<0.00202	0.0253	<50.0	<50.0	<50.0	<50.0	<50.0	15.0
SS09	09/23/2022	0.5'	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	12.3
SS10	09/23/2022	0.5'	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	13.3
PH01	10/27/2022	1	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	1,790
PH01A	10/27/2022	4	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	49.6
~~PH02*~~	~~10/27/2022~~	~~1~~	~~<0.00199~~	~~<0.00398~~	~~<49.8~~	~~<49.8~~	~~<49.8~~	~~<49.8~~	~~<49.8~~	~~**4,160**~~
~~PH02A*~~	~~10/27/2022~~	~~4~~	~~<0.00199~~	~~<0.00398~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~9,810~~
Confirmation Soil Samples										
SW01*	11/03/2022	0-4'	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	25.3
SW02*	11/03/2022	0-4'	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	27.7
SW03	11/04/2022	0-2'	<0.00201	<0.00402	<49.9	<49.9	90.0	<49.9	90.0	33.5
SW04	11/04/2022	0-2'	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	1120
SW05	11/04/2022	0-2'	<0.00199	<0.00398	<50.0	58.8	56.3	58.8	115	521
FS01	10/31/2022	2'	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	1,440
~~FS02~~	~~10/31/2022~~	~~2'~~	~~0.208~~	~~5.90~~	~~273~~	~~731~~	~~<49.9~~	~~**1,000**~~	~~1,000~~	~~853~~
FS02A	11/04/2022	2.5'	<0.00201	<0.00402	<50.0	<50.0	79.9	<50.0	79.9	952
~~FS03~~	~~10/31/2022~~	~~2'~~	~~0.465~~	~~7.37~~	~~401~~	~~2,110~~	~~<50.0~~	~~**2,510**~~	~~**2,510**~~	~~209~~
FS03A	11/04/2022	2.5'	<0.00198	<0.00396	<50.0	635	619	635	1,250	467
FS04	10/31/2022	2'	0.216	0.806	69.3	238	<49.9	307	307	254
FS05	10/31/2022	2'	<0.00200	<0.00399	<50.0	557	<50.0	557	557	184
FS06	10/31/2022	2'	0.237	1.18	65.8	422	<49.9	488	488	584
FS07	10/31/2022	2'	<0.00200	<0.00401	<49.9	176	<49.9	176	176	758
FS08	10/31/2022	2'	0.189	0.230	65.7	856	<50.0	922	922	279
FS09	11/01/2022	2'	<0.00200	0.0155	<49.9	129	<49.9	129	129	62.3
FS10	11/01/2022	2'	<0.00199	0.00884	<50.0	863	110	863	973	190
FS11	11/01/2022	2'	<0.00199	<0.00398	<50.0	576	73.8	576	650	803

ENSOLUM

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
POKER LAKE UNIT 409
XTO ENERGY, INC.
EDDY COUNTY, NEW MEXICO

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
~~FS12~~	~~11/01/2022~~	~~2'~~	~~<0.00200~~	~~<0.00399~~	~~<49.9~~	~~1,220~~	~~164~~	~~**1,220**~~	~~1,380~~	~~304~~
FS12A	11/08/2022	3'	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	23.2
FS13	11/01/2022	2'	<0.00199	0.00715	<50.0	62.2	<50.0	62.2	62.2	41.2
FS14	11/01/2022	2'	<0.00199	0.00940	<49.9	415	51.5	415	467	248
FS15	11/01/2022	2'	<0.00200	0.00866	<49.9	710	94.7	710	805	614
~~FS16~~	~~11/01/2022~~	~~2'~~	~~<0.00200~~	~~0.129~~	~~127~~	~~2,740~~	~~406~~	~~**2,867**~~	~~**3,270**~~	~~851~~
FS16A	11/08/2022	3'	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	269
~~FS17~~	~~11/01/2022~~	~~2'~~	~~<0.00199~~	~~0.147~~	~~113~~	~~1,660~~	~~222~~	~~**1,773**~~	~~2,000~~	~~582~~
FS17A	11/08/2022	3'	<0.00200	<0.00400	<49.8	<49.8	<49.8	<49.8	<49.8	40.2
FS18	11/01/2022	2'	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	182
FS19	11/01/2022	2'	<0.00200	0.00432	<49.9	418	<49.9	418	418	2,440
~~FS20~~	~~11/01/2022~~	~~2'~~	~~<0.00200~~	~~0.566~~	~~327~~	~~1,870~~	~~<50.0~~	~~**2,197**~~	~~2,200~~	~~1,140~~
FS20A	11/08/2022	3'	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	8,690
FS21	11/01/2022	2'	<0.00199	0.426	98.8	435	<49.9	534	534	39.8
FS22	11/03/2022	2'	<0.00201	<0.00402	<49.8	386	<49.8	386	386	128
FS23	11/03/2022	2'	<0.00199	<0.00398	<50.0	468	<50.0	468	468	764
~~FS24~~	~~11/03/2022~~	~~2'~~	~~<0.00199~~	~~0.0531~~	~~128~~	~~1,120~~	~~<49.9~~	~~**1,248**~~	~~1,250~~	~~915~~
FS24A	12/20/2022	3'	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	7,320
FS25*	11/03/2022	4'	<0.00200	0.0199	<49.9	581	<49.9	581	581	590
FS26*	11/03/2022	0-4'	<0.00202	0.0365	<50.0	205	<50.0	205	205	493
FS27	11/04/2022	4'	<0.00199	<0.00398	<50.0	55.2	<50.0	55.2	55.2	7,490
FS28*	11/04/2022	4'	<0.00200	<0.00399	<50.0	152	125	152	277	10,300
FS29	11/04/2022	2'	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	146
FS30	11/04/2022	2'	<0.00200	<0.00399	<50.0	490	356	490	846	428
FS31	11/04/2022	2'	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	972
FS32	11/04/2022	2'	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	870
FS33	11/04/2022	2'	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	38.4
FS34	11/04/2022	2'	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	1,570
FS35	11/04/2022	2'	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	3,330
FS36	11/04/2022	2'	<0.00199	<0.00398	<50.0	78.5	57.3	78.5	136	872
FS37	11/04/2022	2'	<0.00199	<0.00398	<49.8	168	308	168	476	228
FS38	11/04/2022	2'	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	67.3
FS39	11/08/2022	2'	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	475
FS40	11/08/2022	2'	<0.00198	<0.00396	<49.8	208	<49.8	208	208	702

ENSOLUM

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
POKER LAKE UNIT 409
XTO ENERGY, INC.
EDDY COUNTY, NEW MEXICO

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			**10**	**50**	**NE**	**NE**	**NE**	**1,000**	**2,500**	**20,000**
FS41	11/08/2022	2'	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	1,280
FS42	11/08/2022	2'	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	41.7
FS43	11/08/2022	2'	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	14.1
FS44	11/08/2022	2'	<0.00198	<0.00397	<50.0	<50.0	<50.0	<50.0	<50.0	23.9
FS45	11/08/2022	2'	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	1,480
FS46	11/08/2022	2'	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	2,420
FS47	11/08/2022	2'	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	20.9
FS48	11/08/2022	2'	<0.00202	<0.00404	<49.9	608	95.3	608	703	3,610
FS49	11/08/2022	2'	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	2,370
FS50	11/08/2022	2'	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	232
FS51	11/08/2022	2'	<0.00202	<0.00403	<50.0	92.9	<50.0	92.9	92.9	7,780
FS52	11/08/2022	2'	<0.00200	0.0111	<49.9	<49.9	<49.9	<49.9	<49.9	26.6
FS53	11/08/2022	2'	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	32.7
FS54	11/08/2022	2'	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	14.6

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

Concentrations in **bold** exceed the NMOCD Table 1 Closure Criteria or reclamation requirement where applicable.

* inidicates the soil sample was collected in an off pad area in the top 4 feet

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

NMAC: New Mexico Administrative Code

~~Grey~~ text indicates soil sample removed during excavation activities

ENSOLUM

APPENDIX A

Referenced Well Records

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
POD1 (BH-01)	n/a	C-4508

WELL OWNER NAME(S)	PHONE (OPTIONAL)
XTO Energy (Kyle Littrell)	

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
6401 Holiday Hill Dr.	Midland	TX	79707

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32°	12'	46.69"	N
	LONGITUDE	-103°	45'	55.29"	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHJIP, RANGE) WHERE AVAILABLE

SW SE Sec. 15 T24S R31E

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
1249	Jackie D. Atkins	Atkins Engineering Associates, Inc.

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
12/29/2020	12/29/2020	temporary well material	110	n/a

COMPLETED WELL IS: ☐ ARTESIAN ☑ DRY HOLE ☐ SHALLOW (UNCONFINED) — STATIC WATER LEVEL IN COMPLETED WELL (FT): n/a

DRILLING FLUID: ☐ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☑ OTHER – SPECIFY: Hollow Stem Auger

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	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)
0	110	±8.5	Boring- HSA	--	--	--	--

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 06/30/17)

FILE NO.	C-4508	POD NO.	1	TRN NO.	686651
LOCATION	Exp 1 24S.31E.15.344			WELL TAG ID NO.	—

PAGE 1 OF 2

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4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	14	14	SAND, medium-fine grain, poorly graded,someclaiche, light-brown-tan,dry	Y ✓ N	
14	15	1	SAND, fine grain, poorly graded,someclaiche, light-brown-tan,dry	Y ✓ N	
15	25	5	CALICHE, moderately consolidated,silty, some gravel, off-white-tan, dry	Y ✓ N	
25	46	21	SILTSTONE, mod. consolidated, some sand, red-brown, dry	Y ✓ N	
46	64	18	CLAYSTONE, mod. consolidated, cohesive, few sand, red-brown, dry	Y ✓ N	
64	72	8	SANDSTONE, high consolidated, medium-grain, well graded,white/lightbrown	Y ✓ N	
72	90	18	CLAYSTONE, high consolidated, cohesive, medium plasticity, few sand, red-br	Y ✓ N	
90	101	11	SANDSTONE, high consolidated, fine grain, few silt,white/offwhite	Y ✓ N	
101	108	7	CLAYSTONE, high consolidated, cohesive, med.-low plasticity, few sand, red-b	Y ✓ N	
108	111	3	SANDSTONE, high consolidated, fine grain, few silt, white/offwhite, dry	Y ✓ N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION

WELL TEST: TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION: Temporary well materials removed and the soil boring backfilled using drill cuttings from total depth to ten feet below ground surface, then hydrated bentonite chips from ten feet below ground surface to surface. Logs adapted from WSP on-site geologist.

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

Shane Eldridge

6. SIGNATURE

THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:

Jack Atkins — Jackie D. Atkins — 02/11/2021

SIGNATURE OF DRILLER / PRINT SIGNEE NAME — DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 06/30/2017)

FILE NO. C-4504	POD NO. 1	TRN NO. 686651	
LOCATION		WELL TAG ID NO. —	PAGE 2 OF 2

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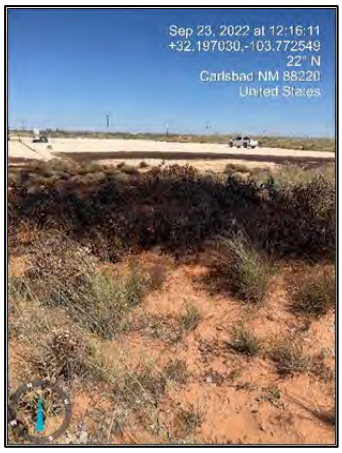
APPENDIX B

Photographic Log

ENSOLUM

Photographic Log
XTO Energy
Poker Lake Unit 409
32.197077,-103.772442



Photograph: 1 Date: 9/23/2022
Description: Staining in release footprint
View: North

Photograph: 2 Date: 10/18/2022
Description: Staining and water in release footprint
View: Northeast

Photograph: 3 Date: 11/8/2022
Description: Excavation activities
View: Northeast

Photograph: 4 Date: 12/20/2022
Description: Excavation activities
View: East

ENSOLUM

APPENDIX C

Lithologic Soil Sampling Logs

ENSOLUM

	Sample Name: PH01	Date: 10/27/22
	Site Name: PLU 409	
	Incident Number: nAPP2223751933	
	Job Number: 03E1558114	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: Meredith Roberts	Method: Backhoe
Coordinates: 32.19707 -103.77244	Hole Diameter: ~3'	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	2,329	15.3	N	PH01	1'	1	SM	Fine red sand
M	1,215	14.7	N		2'	2	SM	Fine red sand
M	<168	18.4	N		3'	3	SM	Fine red sand
M	<168	4.2	N	PH01A	4'	4	SM	Fine red sand
						5		
						6		
						7		
						8		
						9		
						10		
						11		
						12		

ENSOLUM

	Sample Name: PH02	Date: 10/27/22
	Site Name: PLU 409	
	Incident Number: nAPP2223751933	
	Job Number: 03E1558114	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: Meredith Roberts	Method: Backhoe
Coordinates: 32.19707 -103.77244	Hole Diameter: ~3'	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	5,499	15.7	N	PH02	1'	1	SM	Fine red sand
M	7,560	8.2	N		2'	2	SM	Fine red sand
M	9,520	26.6	N		3'	3	SM	Fine red sand
M	15,265	3.9	N	PH02A	4'	4	SM	Fine red sand
						5		
						6		
						7		
						8		
						9		
						10		
						11		
						12		

ENSOLUM

APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation

Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 409

Job ID: 890-3302-1
SDG: 03e1558114

Client Sample ID: PH01

Date Collected: 10/27/22 09:45
Date Received: 10/27/22 13:01
Sample Depth: 1

Lab Sample ID: 890-3302-1
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U *+ *1	0.00201		mg/Kg		10/28/22 09:00	10/28/22 12:59	1
Toluene	<0.00201	U *1	0.00201		mg/Kg		10/28/22 09:00	10/28/22 12:59	1
Ethylbenzene	<0.00201	U *1	0.00201		mg/Kg		10/28/22 09:00	10/28/22 12:59	1
m-Xylene & p-Xylene	<0.00402	U *1	0.00402		mg/Kg		10/28/22 09:00	10/28/22 12:59	1
o-Xylene	<0.00201	U *1	0.00201		mg/Kg		10/28/22 09:00	10/28/22 12:59	1
Xylenes, Total	<0.00402	U *1	0.00402		mg/Kg		10/28/22 09:00	10/28/22 12:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*	*10/28/22 09:00*	*10/28/22 12:59*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*10/28/22 09:00*	*10/28/22 12:59*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			10/28/22 17:21	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/28/22 17:10	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/28/22 08:54	10/28/22 14:15	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/28/22 08:54	10/28/22 14:15	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/28/22 08:54	10/28/22 14:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*10/28/22 08:54*	*10/28/22 14:15*	*1*
o-Terphenyl	*92*		*70 - 130*	*10/28/22 08:54*	*10/28/22 14:15*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1790**		25.2		mg/Kg			10/28/22 14:27	5

Client Sample ID: PH01A

Date Collected: 10/27/22 10:00
Date Received: 10/27/22 13:01
Sample Depth: 4

Lab Sample ID: 890-3302-2
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U *+ *1	0.00201		mg/Kg		10/28/22 09:00	10/28/22 13:20	1
Toluene	<0.00201	U *1	0.00201		mg/Kg		10/28/22 09:00	10/28/22 13:20	1
Ethylbenzene	<0.00201	U *1	0.00201		mg/Kg		10/28/22 09:00	10/28/22 13:20	1
m-Xylene & p-Xylene	<0.00402	U *1	0.00402		mg/Kg		10/28/22 09:00	10/28/22 13:20	1
o-Xylene	<0.00201	U *1	0.00201		mg/Kg		10/28/22 09:00	10/28/22 13:20	1
Xylenes, Total	<0.00402	U *1	0.00402		mg/Kg		10/28/22 09:00	10/28/22 13:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*10/28/22 09:00*	*10/28/22 13:20*	*1*

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Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 409

Job ID: 890-3302-1
SDG: 03e1558114

Client Sample ID: PH01A
Date Collected: 10/27/22 10:00
Date Received: 10/27/22 13:01
Sample Depth: 4

Lab Sample ID: 890-3302-2
Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*10/28/22 09:00*	*10/28/22 13:20*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			10/28/22 17:21	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/28/22 17:10	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/28/22 08:54	10/28/22 14:37	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/28/22 08:54	10/28/22 14:37	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/28/22 08:54	10/28/22 14:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*10/28/22 08:54*	*10/28/22 14:37*	*1*
o-Terphenyl	*89*		*70 - 130*	*10/28/22 08:54*	*10/28/22 14:37*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**49.6**		5.05		mg/Kg			10/28/22 14:47	1

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

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Project Manager:	Tacoma Morrissey	Bill to: (if different)	Garrett Green
Company Name:	Ensolum, LLC	Company Name:	EXTO Energy
Address:	3122 Nat'l Parks Hwy	Address:	3104 E Greene St
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	337.257.8307	Email:	tmorrissey@ensolum.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Poker Lake Unit 407	Turn Around	☐ Routine ☑ Rush
Project Number:	03E1558114	Due Date:	1 day
Project Location:	32.19707, -103.77244	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Meredith Roberts		
PO #:			

SAMPLE RECEIPT			
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No
Samples Received Intact:	(Yes) No	Thermometer ID:	IR#007
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	4.4
Total Containers:		Corrected Temperature:	4.2

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	BTEX	Chlorides	TPH
PH01	S	10/27/22	0945	1'	G	1		X	X	X
PH01A	S	10/27/22	1000	4'	G	1		X	X	X

NC

890-3302 Chain of Custody

Preservative Codes

None: NO DI Water: H_2O
Cool: Cool MeOH: Me
HCL: HC HNO_3: HN
H_2SO_4: H_2 NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: NaSO$_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Comments

Incident #:
nAPP2223751933

Cost Center:
1190421001

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1			10.27.22 1301			
3				4		
5				6		

Revised Date: 08/25/2020 Rev. 2020.2

Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 409

Job ID: 890-3301-1
SDG: 03E1558114

Client Sample ID: PH02
Date Collected: 10/27/22 10:30
Date Received: 10/27/22 13:01
Sample Depth: 1

Lab Sample ID: 890-3301-1
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *+ *1	0.00199		mg/Kg		10/28/22 09:00	10/28/22 12:18	1
Toluene	<0.00199	U *1	0.00199		mg/Kg		10/28/22 09:00	10/28/22 12:18	1
Ethylbenzene	<0.00199	U *1	0.00199		mg/Kg		10/28/22 09:00	10/28/22 12:18	1
m-Xylene & p-Xylene	<0.00398	U *1	0.00398		mg/Kg		10/28/22 09:00	10/28/22 12:18	1
o-Xylene	<0.00199	U *1	0.00199		mg/Kg		10/28/22 09:00	10/28/22 12:18	1
Xylenes, Total	<0.00398	U *1	0.00398		mg/Kg		10/28/22 09:00	10/28/22 12:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*78*		*70 - 130*	*10/28/22 09:00*	*10/28/22 12:18*	*1*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*	*10/28/22 09:00*	*10/28/22 12:18*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/28/22 17:21	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			10/28/22 17:10	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		10/28/22 08:54	10/28/22 13:32	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		10/28/22 08:54	10/28/22 13:32	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		10/28/22 08:54	10/28/22 13:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*10/28/22 08:54*	*10/28/22 13:32*	*1*
o-Terphenyl	*102*		*70 - 130*	*10/28/22 08:54*	*10/28/22 13:32*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4160**		25.2		mg/Kg			10/28/22 14:13	5

Client Sample ID: PH02A
Date Collected: 10/27/22 10:45
Date Received: 10/27/22 13:01
Sample Depth: 4

Lab Sample ID: 890-3301-2
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *+ *1	0.00199		mg/Kg		10/28/22 09:00	10/28/22 12:39	1
Toluene	<0.00199	U *1	0.00199		mg/Kg		10/28/22 09:00	10/28/22 12:39	1
Ethylbenzene	<0.00199	U *1	0.00199		mg/Kg		10/28/22 09:00	10/28/22 12:39	1
m-Xylene & p-Xylene	<0.00398	U *1	0.00398		mg/Kg		10/28/22 09:00	10/28/22 12:39	1
o-Xylene	<0.00199	U *1	0.00199		mg/Kg		10/28/22 09:00	10/28/22 12:39	1
Xylenes, Total	<0.00398	U *1	0.00398		mg/Kg		10/28/22 09:00	10/28/22 12:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*10/28/22 09:00*	*10/28/22 12:39*	*1*

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Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 409

Job ID: 890-3301-1
SDG: 03E1558114

Client Sample ID: PH02A

Date Collected: 10/27/22 10:45
Date Received: 10/27/22 13:01
Sample Depth: 4

Lab Sample ID: 890-3301-2

Matrix: Solid

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*10/28/22 09:00*	*10/28/22 12:39*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/28/22 17:21	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/28/22 17:10	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/28/22 08:54	10/28/22 13:53	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/28/22 08:54	10/28/22 13:53	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/28/22 08:54	10/28/22 13:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*94*		*70 - 130*	*10/28/22 08:54*	*10/28/22 13:53*	*1*
o-Terphenyl	*94*		*70 - 130*	*10/28/22 08:54*	*10/28/22 13:53*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**9810**		50.0		mg/Kg			10/28/22 14:20	10

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

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Project Manager:	Tacoma Morrissey	Bill to: (if different)	Garrett Green
Company Name:	Ensolum, LLC	Company Name:	XTO Energy
Address:	3122 Nat'l Parks Hwy	Address:	3104 E Greene St
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	337.257.8307 Email:		tmorrissey@ensolum.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Poker Lake Unit 409	Turn Around	
Project Number:	03E1558114	☐ Routine ☑ Rush	
Project Location:	32.19707, -103.77244	Due Date:	1 day
Sampler's Name:	Meredith Roberts	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	TMH007
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No N/A	Temperature Reading:	4.4
Total Containers:		Corrected Temperature:	4.2

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	BTEX	TPH	Chlorides
PH02	S	10/27/22	1030	1'	G	1		X	X	X
PH02A	S	10/27/22	1095	4'	G	1		X	X	X

Parameters

890-3301 Chain of Custody

Preservative Codes

None: NO DI Water: H_2O
Cool: Cool MeOH: Me
HCL: HC HNO_3: HN
H_2SO_4: H_2 NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Comments

Incident #: nAPP2223751933

Cost Center: 1140421001

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		10.27.22 1301	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Client Sample Results

Client: Ensolum
Project/Site: PLU 409

Job ID: 890-3056-1
SDG: 03E1558114

Client Sample ID: SS01
Date Collected: 09/23/22 13:25
Date Received: 09/23/22 15:47
Sample Depth: 0.5'

Lab Sample ID: 890-3056-1
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.199	U	0.199		mg/Kg		10/04/22 16:15	10/06/22 04:37	100
Toluene	**1.88**		0.199		mg/Kg		10/04/22 16:15	10/06/22 04:37	100
Ethylbenzene	**2.52**		0.199		mg/Kg		10/04/22 16:15	10/06/22 04:37	100
m-Xylene & p-Xylene	**7.08**		0.398		mg/Kg		10/04/22 16:15	10/06/22 04:37	100
o-Xylene	**6.54**		0.199		mg/Kg		10/04/22 16:15	10/06/22 04:37	100
Xylenes, Total	**13.6**		0.398		mg/Kg		10/04/22 16:15	10/06/22 04:37	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*158*	*S1+*	*70 - 130*	*10/04/22 16:15*	*10/06/22 04:37*	*100*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*10/04/22 16:15*	*10/06/22 04:37*	*100*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**18.0**		0.398		mg/Kg			10/06/22 12:33	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**34100**		499		mg/Kg			09/30/22 09:27	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**1000**	***1**	499		mg/Kg		09/28/22 13:29	09/30/22 01:48	10
Diesel Range Organics (Over C10-C28)	**28700**		499		mg/Kg		09/28/22 13:29	09/30/22 01:48	10
Oil Range Organics (Over C28-C36)	**4370**		499		mg/Kg		09/28/22 13:29	09/30/22 01:48	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*128*		*70 - 130*	*09/28/22 13:29*	*09/30/22 01:48*	*10*
o-Terphenyl	*138*	*S1+*	*70 - 130*	*09/28/22 13:29*	*09/30/22 01:48*	*10*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**920**	**F1**	4.97		mg/Kg			09/28/22 13:34	1

Client Sample ID: SS02
Date Collected: 09/23/22 13:30
Date Received: 09/23/22 15:47
Sample Depth: 0.5'

Lab Sample ID: 890-3056-2
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.202	U	0.202		mg/Kg		10/04/22 16:15	10/06/22 04:57	100
Toluene	**0.269**		0.202		mg/Kg		10/04/22 16:15	10/06/22 04:57	100
Ethylbenzene	**0.233**		0.202		mg/Kg		10/04/22 16:15	10/06/22 04:57	100
m-Xylene & p-Xylene	**0.465**		0.403		mg/Kg		10/04/22 16:15	10/06/22 04:57	100
o-Xylene	**0.904**		0.202		mg/Kg		10/04/22 16:15	10/06/22 04:57	100
Xylenes, Total	**1.37**		0.403		mg/Kg		10/04/22 16:15	10/06/22 04:57	100

Client Sample Results

Client: Ensolum
Project/Site: PLU 409

Job ID: 890-3056-1
SDG: 03E1558114

Client Sample ID: SS02

Date Collected: 09/23/22 13:30
Date Received: 09/23/22 15:47
Sample Depth: 0.5'

Lab Sample ID: 890-3056-2
Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*10/04/22 16:15*	*10/06/22 04:57*	*100*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*10/04/22 16:15*	*10/06/22 04:57*	*100*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**1.87**		0.403	mg/Kg			10/06/22 12:33	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**23700**		499	mg/Kg			09/30/22 09:27	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<499	U *1	499	mg/Kg		09/28/22 13:29	09/30/22 02:10	10
Diesel Range Organics (Over C10-C28)	**20600**		499	mg/Kg		09/28/22 13:29	09/30/22 02:10	10
Oil Range Organics (Over C28-C36)	**3090**		499	mg/Kg		09/28/22 13:29	09/30/22 02:10	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*121*		*70 - 130*	*09/28/22 13:29*	*09/30/22 02:10*	*10*
o-Terphenyl	*138*	*S1+*	*70 - 130*	*09/28/22 13:29*	*09/30/22 02:10*	*10*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1180**		4.96	mg/Kg			09/28/22 14:08	1

Client Sample ID: SS03

Date Collected: 09/23/22 13:35
Date Received: 09/23/22 15:47
Sample Depth: 0.5'

Lab Sample ID: 890-3056-3
Matrix: Solid

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.199	U	0.199	mg/Kg		10/04/22 16:15	10/06/22 05:18	100
Toluene	<0.199	U	0.199	mg/Kg		10/04/22 16:15	10/06/22 05:18	100
Ethylbenzene	<0.199	U	0.199	mg/Kg		10/04/22 16:15	10/06/22 05:18	100
m-Xylene & p-Xylene	**0.457**		0.398	mg/Kg		10/04/22 16:15	10/06/22 05:18	100
o-Xylene	**0.865**		0.199	mg/Kg		10/04/22 16:15	10/06/22 05:18	100
Xylenes, Total	**1.32**		0.398	mg/Kg		10/04/22 16:15	10/06/22 05:18	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*10/04/22 16:15*	*10/06/22 05:18*	*100*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*10/04/22 16:15*	*10/06/22 05:18*	*100*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**1.32**		0.398	mg/Kg			10/06/22 12:33	1

Client Sample Results

Client: Ensolum
Project/Site: PLU 409

Job ID: 890-3056-1
SDG: 03E1558114

Client Sample ID: SS03

Date Collected: 09/23/22 13:35
Date Received: 09/23/22 15:47
Sample Depth: 0.5'

Lab Sample ID: 890-3056-3
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**32600**		500		mg/Kg			09/30/22 09:27	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<500	U *1	500		mg/Kg		09/28/22 13:29	09/30/22 02:31	10
Diesel Range Organics (Over C10-C28)	**28400**		500		mg/Kg		09/28/22 13:29	09/30/22 02:31	10
Oil Range Organics (Over C28-C36)	**4230**		500		mg/Kg		09/28/22 13:29	09/30/22 02:31	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*111*		*70 - 130*	*09/28/22 13:29*	*09/30/22 02:31*	*10*
o-Terphenyl	*142*	*S1+*	*70 - 130*	*09/28/22 13:29*	*09/30/22 02:31*	*10*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4100**		24.9		mg/Kg			09/28/22 14:13	5

Client Sample ID: SS04

Date Collected: 09/23/22 13:40
Date Received: 09/23/22 15:47
Sample Depth: 0.5'

Lab Sample ID: 890-3056-4
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		10/04/22 16:15	10/06/22 04:16	1
Toluene	<0.00198	U	0.00198		mg/Kg		10/04/22 16:15	10/06/22 04:16	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		10/04/22 16:15	10/06/22 04:16	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		10/04/22 16:15	10/06/22 04:16	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		10/04/22 16:15	10/06/22 04:16	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		10/04/22 16:15	10/06/22 04:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*10/04/22 16:15*	*10/06/22 04:16*	*1*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*	*10/04/22 16:15*	*10/06/22 04:16*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			10/06/22 12:33	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**1640**		50.0		mg/Kg			09/30/22 09:27	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		09/28/22 13:29	09/30/22 03:36	1
Diesel Range Organics (Over C10-C28)	**1400**		50.0		mg/Kg		09/28/22 13:29	09/30/22 03:36	1

Client Sample Results

Client: Ensolum
Project/Site: PLU 409

Job ID: 890-3056-1
SDG: 03E1558114

Client Sample ID: SS04

Date Collected: 09/23/22 13:40
Date Received: 09/23/22 15:47
Sample Depth: 0.5'

Lab Sample ID: 890-3056-4
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	244		50.0		mg/Kg		09/28/22 13:29	09/30/22 03:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*113*		*70 - 130*	*09/28/22 13:29*	*09/30/22 03:36*	*1*
o-Terphenyl	*109*		*70 - 130*	*09/28/22 13:29*	*09/30/22 03:36*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1410		25.1		mg/Kg			09/28/22 14:18	5

Client Sample ID: SS05

Date Collected: 09/23/22 13:45
Date Received: 09/23/22 15:47
Sample Depth: 0.5'

Lab Sample ID: 890-3056-5
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.199	U	0.199		mg/Kg		10/04/22 16:15	10/06/22 05:38	100
Toluene	0.752		0.199		mg/Kg		10/04/22 16:15	10/06/22 05:38	100
Ethylbenzene	1.11		0.199		mg/Kg		10/04/22 16:15	10/06/22 05:38	100
m-Xylene & p-Xylene	4.20		0.398		mg/Kg		10/04/22 16:15	10/06/22 05:38	100
o-Xylene	1.93		0.199		mg/Kg		10/04/22 16:15	10/06/22 05:38	100
Xylenes, Total	6.13		0.398		mg/Kg		10/04/22 16:15	10/06/22 05:38	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*10/04/22 16:15*	*10/06/22 05:38*	*100*
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*	*10/04/22 16:15*	*10/06/22 05:38*	*100*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	7.99		0.398		mg/Kg			10/06/22 12:33	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	11000		250		mg/Kg			09/30/22 09:27	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	417	*1	250		mg/Kg		09/28/22 13:29	09/30/22 03:14	5
Diesel Range Organics (Over C10-C28)	9350		250		mg/Kg		09/28/22 13:29	09/30/22 03:14	5
Oil Range Organics (Over C28-C36)	1210		250		mg/Kg		09/28/22 13:29	09/30/22 03:14	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*09/28/22 13:29*	*09/30/22 03:14*	*5*
o-Terphenyl	*100*		*70 - 130*	*09/28/22 13:29*	*09/30/22 03:14*	*5*

Client Sample Results

Client: Ensolum
Project/Site: PLU 409

Job ID: 890-3056-1
SDG: 03E1558114

Client Sample ID: SS05

Date Collected: 09/23/22 13:45
Date Received: 09/23/22 15:47
Sample Depth: 0.5'

Lab Sample ID: 890-3056-5

Matrix: Solid

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2190**		25.2		mg/Kg			09/28/22 14:23	5

Client Sample ID: SS06

Date Collected: 09/23/22 13:00
Date Received: 09/23/22 15:47
Sample Depth: 0.5'

Lab Sample ID: 890-3056-6

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.201	U	0.201		mg/Kg		10/04/22 16:15	10/06/22 05:59	100
Toluene	**0.381**		0.201		mg/Kg		10/04/22 16:15	10/06/22 05:59	100
Ethylbenzene	**0.577**		0.201		mg/Kg		10/04/22 16:15	10/06/22 05:59	100
m-Xylene & p-Xylene	**2.25**		0.402		mg/Kg		10/04/22 16:15	10/06/22 05:59	100
o-Xylene	**1.16**		0.201		mg/Kg		10/04/22 16:15	10/06/22 05:59	100
Xylenes, Total	**3.41**		0.402		mg/Kg		10/04/22 16:15	10/06/22 05:59	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*123*		*70 - 130*	*10/04/22 16:15*	*10/06/22 05:59*	*100*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*10/04/22 16:15*	*10/06/22 05:59*	*100*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**4.37**		0.402		mg/Kg			10/06/22 12:33	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**32700**		499		mg/Kg			09/30/22 09:27	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<499	U *1	499		mg/Kg		09/28/22 13:29	09/30/22 02:53	10
Diesel Range Organics (Over C10-C28)	**28600**		499		mg/Kg		09/28/22 13:29	09/30/22 02:53	10
Oil Range Organics (Over C28-C36)	**4090**		499		mg/Kg		09/28/22 13:29	09/30/22 02:53	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*09/28/22 13:29*	*09/30/22 02:53*	*10*
o-Terphenyl	*127*		*70 - 130*	*09/28/22 13:29*	*09/30/22 02:53*	*10*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4040**		50.2		mg/Kg			09/28/22 14:38	10

Chain of Custody

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Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

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Project Manager:	Kalei Jennings	Bill to: (if different)	Garrett Green
Company Name:	Ensolum	Company Name:	XTO Energy
Address:	3122 National Parks Hwy	Address:	3104 E. Green St.
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	817-683-2503	Email:	kjennings@ensolum.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	PLU 409	Turn Around	☑ Routine ☐ Rush
Project Number:	03E1558114	Due Date:	
Project Location:	32.19707, -103.77244	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Meredith Roberts		
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Samples Received Intact:	Yes No	Thermometer ID:	TRM-007	
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2	
Sample Custody Seals:	Yes No N/A	Temperature Reading:	4.1.9	
Total Containers:		Corrected Temperature:	4.1.9	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	CHLORIDES (EPA: 300.0)	TPH (8015)	BTEX (8021)
SS01	S	9/23/2022	1325	0-3"	Grab	1		x	x	x
SS02	S	9/23/2022	1330	0-3"	G	1		x	x	x
SS03	S	9/23/2022	1335	0-3"	G	1		x	x	x
SS04	S	9/23/2022	1340	0-3"	G	1		x	x	x
SS05	S	9/23/2022	1345	0-3"	G	1		x	x	x
SS06	S	9/23/2022	1300	0-3"	G	1		x	x	x

ANALYSIS REQUEST

890-3056 Chain of Custody

Preservative Codes

None: NO DI Water: H_2O
Cool: Cool MeOH: Me
HCL: HC HNO_3: HN
H_2S0_4: H_2 NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Comments

Incident ID:
nAPP2223751933
Cost Center:
1140421001

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	Amanda Bluff	9/23/22 1547	4		
3			6		
5					

Revised Date: 08/25/2020 Rev: 2020.2

Client Sample Results

Client: Ensolum
Project/Site: PLU 409

Job ID: 890-3055-1
SDG: 03E1558114

Client Sample ID: SS07

Date Collected: 09/23/22 13:05
Date Received: 09/23/22 15:47
Sample Depth: 0.5'

Lab Sample ID: 890-3055-1

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		10/04/22 16:09	10/07/22 03:50	1
Toluene	<0.00198	U	0.00198		mg/Kg		10/04/22 16:09	10/07/22 03:50	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		10/04/22 16:09	10/07/22 03:50	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		10/04/22 16:09	10/07/22 03:50	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		10/04/22 16:09	10/07/22 03:50	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		10/04/22 16:09	10/07/22 03:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*10/04/22 16:09*	*10/07/22 03:50*	*1*
1,4-Difluorobenzene (Surr)	*70*		*70 - 130*	*10/04/22 16:09*	*10/07/22 03:50*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			10/07/22 10:22	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			09/29/22 08:58	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		09/27/22 14:05	09/28/22 17:02	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/27/22 14:05	09/28/22 17:02	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/27/22 14:05	09/28/22 17:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*09/27/22 14:05*	*09/28/22 17:02*	*1*
o-Terphenyl	*97*		*70 - 130*	*09/27/22 14:05*	*09/28/22 17:02*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**23.3**		4.99		mg/Kg			09/28/22 14:29	1

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

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Project Manager:	Kalei Jennings	Bill to: (if different)	Garrett Green
Company Name:	Ensolum	Company Name:	XTO Energy
Address:	3122 National Parks Hwy	Address:	3104 E. Green St.
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	817-683-2503	Email:	kjennings@ensolum.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	PLU 409	Turn Around	☑ Routine ☐ Rush
Project Number:	03E1558114	Due Date:	
Project Location:	32.19707, -103.77244	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Meredith Roberts		
PO #:			

SAMPLE RECEIPT

Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	IR-7
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No N/A	Temperature Reading:	4.6
Total Containers:		Corrected Temperature:	4.4

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	CHLORIDES (EPA: 300.0)	TPH (8015)	BTEX (8021)
SS07	S	9/23/2022	1305	0-3"	Grab	1		x	x	x

Parameters

890-3055 Chain of Custody

Preservative Codes

None: NO DI Water: H_2O
Cool: Cool MeOH: Me
HCL: HC HNO_3: HN
H_2S0_4: H_2 NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Comments

Incident ID:
nAPP2223751933
Cost Center:
1140421001

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		9/23/22 1547	4		
3			6		
5					

Revised Date: 08/25/2020 Rev. 2020.2

Client Sample Results

Client: Ensolum
Project/Site: PLU 409

Job ID: 890-3054-1
SDG: 03E1558114

Client Sample ID: SS08

Date Collected: 09/23/22 13:10
Date Received: 09/23/22 15:47
Sample Depth: 0.5'

Lab Sample ID: 890-3054-1

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		10/04/22 15:54	10/05/22 20:01	1
Toluene	**0.00560**		0.00202		mg/Kg		10/04/22 15:54	10/05/22 20:01	1
Ethylbenzene	**0.00440**		0.00202		mg/Kg		10/04/22 15:54	10/05/22 20:01	1
m-Xylene & p-Xylene	**0.0153**		0.00403		mg/Kg		10/04/22 15:54	10/05/22 20:01	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		10/04/22 15:54	10/05/22 20:01	1
Xylenes, Total	**0.0153**		0.00403		mg/Kg		10/04/22 15:54	10/05/22 20:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*78*		*70 - 130*	*10/04/22 15:54*	*10/05/22 20:01*	*1*
1,4-Difluorobenzene (Surr)	*118*		*70 - 130*	*10/04/22 15:54*	*10/05/22 20:01*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0253**		0.00403		mg/Kg			10/06/22 14:58	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			09/29/22 08:58	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/27/22 14:05	09/28/22 16:40	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/27/22 14:05	09/28/22 16:40	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/27/22 14:05	09/28/22 16:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 130*	*09/27/22 14:05*	*09/28/22 16:40*	*1*
o-Terphenyl	*93*		*70 - 130*	*09/27/22 14:05*	*09/28/22 16:40*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**15.0**		5.02		mg/Kg			09/28/22 14:23	1

Chain of Custody

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Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

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Project Manager:	Kalei Jennings	Bill to: (if different)	Garrett Green
Company Name:	Ensolum	Company Name:	XTO Energy
Address:	3122 National Parks Hwy	Address:	3104 E. Green St.
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	817-683-2503	Email:	kjennings@ensolum.com

Work Order Comments

Program: UST/PST ☐ **PRP** ☐ **Brownfields** ☐ **RRC** ☐ **Superfund** ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	PLU 409	Turn Around	
Project Number:	03E1558114	☑ Routine ☐ Rush	
Project Location:	32.19707, -103.77244	Due Date:	
Sampler's Name:	Meredith Roberts	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	TRM-00
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No N/A	Temperature Reading:	4.6
Total Containers:		Corrected Temperature:	4.4

ANALYSIS REQUEST

Preservative Codes

None: NO DI Water: H_2O
Cool: Cool MeOH: Me
HCL: HC HNO_3: HN
H_2S0_4: H_2 NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: CHLORIDES (EPA: 300.0)	TPH (8015)	BTEX (8021)
SS08	S	9/23/2022	1310	0-3"	Grab	1		x	x	x

890-3054 Chain of Custody

Sample Comments

Incident ID:
nAPP2223751933
Cost Center:
1140421001

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		9/23/22 1547	4		
3			6		
5					

Revised Date: 08/25/2020 Rev. 2020.2

Client Sample Results

Client: Ensolum
Project/Site: PLU 409

Job ID: 890-3053-1
SDG: 03E1558114

Client Sample ID: SS09

Date Collected: 09/23/22 13:15
Date Received: 09/23/22 15:47
Sample Depth: 0.5'

Lab Sample ID: 890-3053-1

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/04/22 16:09	10/07/22 03:29	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/04/22 16:09	10/07/22 03:29	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/04/22 16:09	10/07/22 03:29	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		10/04/22 16:09	10/07/22 03:29	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/04/22 16:09	10/07/22 03:29	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/04/22 16:09	10/07/22 03:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*10/04/22 16:09*	*10/07/22 03:29*	*1*
1,4-Difluorobenzene (Surr)	*70*		*70 - 130*	*10/04/22 16:09*	*10/07/22 03:29*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			10/07/22 10:22	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			09/28/22 09:31	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/27/22 11:47	09/28/22 05:07	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/27/22 11:47	09/28/22 05:07	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/27/22 11:47	09/28/22 05:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*09/27/22 11:47*	*09/28/22 05:07*	*1*
o-Terphenyl	*107*		*70 - 130*	*09/27/22 11:47*	*09/28/22 05:07*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**12.3**		5.00		mg/Kg			09/28/22 14:17	1

Chain of Custody

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Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

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Project Manager:	Kalei Jennings	Bill to: (if different)	Garrett Green
Company Name:	Ensolum	Company Name:	XTO Energy
Address:	3122 National Parks Hwy	Address:	3104 E. Green St.
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	817-683-2503	Email:	kjennings@ensolum.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	PLU 409	Turn Around	
Project Number:	03E1558114	☑ Routine ☐ Rush	
Project Location:	32.19707, -103.77244	Due Date:	
Sampler's Name:	Meredith Roberts	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Samples Received Intact:	Yes No	Thermometer ID:	TM-007	
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2	
Sample Custody Seals:	Yes No N/A	Temperature Reading:	4.6	
Total Containers:		Corrected Temperature:	4.4	

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	CHLORIDES (EPA: 300.0)	TPH (8015)	BTEX (8021)
SS09	S	9/23/2022	1315	0-3"	Grab	1		x	x	x

890-3053 Chain of Custody

Preservative Codes

None: NO DI Water: H_2O
Cool: Cool MeOH: Me
HCL: HC HNO_3: HN
H_2S0_4: H_2 NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Comments

Incident ID:
nAPP2223751933
Cost Center:
1140421001

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		9/23/22 1541	2		
3			4		
5			6		

Revised Date 08/25/2020 Rev. 2020 2

Client Sample Results

Client: Ensolum
Project/Site: PLU 409

Job ID: 890-3052-1
SDG: 03E1558114

Client Sample ID: SS10

Date Collected: 09/23/22 13:20
Date Received: 09/23/22 15:47
Sample Depth: 0.5'

Lab Sample ID: 890-3052-1

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		10/04/22 16:09	10/07/22 03:09	1
Toluene	<0.00202	U	0.00202		mg/Kg		10/04/22 16:09	10/07/22 03:09	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		10/04/22 16:09	10/07/22 03:09	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		10/04/22 16:09	10/07/22 03:09	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		10/04/22 16:09	10/07/22 03:09	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		10/04/22 16:09	10/07/22 03:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*36*	*S1-*	*70 - 130*	*10/04/22 16:09*	*10/07/22 03:09*	*1*
1,4-Difluorobenzene (Surr)	*69*	*S1-*	*70 - 130*	*10/04/22 16:09*	*10/07/22 03:09*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			10/07/22 10:22	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			09/28/22 09:31	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/27/22 11:47	09/28/22 04:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/27/22 11:47	09/28/22 04:45	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/27/22 11:47	09/28/22 04:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*09/27/22 11:47*	*09/28/22 04:45*	*1*
o-Terphenyl	*108*		*70 - 130*	*09/27/22 11:47*	*09/28/22 04:45*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**13.3**		4.96		mg/Kg			09/28/22 14:10	1

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

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Project Manager:	Kalei Jennings	Bill to: (if different)	Garrett Green
Company Name:	Ensolum	Company Name:	XTO Energy
Address:	3122 National Parks Hwy	Address:	3104 E. Green St.
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	817-683-2503	Email:	kjennings@ensolum.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	PLU 409	Turn Around	
Project Number:	03E1558114	☑ Routine ☐ Rush	
Project Location:	32.19707, -103.77244	Due Date:	
Sampler's Name:	Meredith Roberts	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	TAM-007
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No N/A	Temperature Reading:	4.6
Total Containers:		Corrected Temperature:	4.4

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	CHLORIDES (EPA: 300.0)	TPH (8015)	BTEX (8021)
SS10	S	9/23/2022	1320	0-3"	Grab	1		x	x	x

Parameters

890-3052 Chain of Custody

Preservative Codes

None: NO DI Water: H_2O
Cool: Cool MeOH: Me
HCL: HC HNO_3: HN
H_2S0_4: H_2 NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Comments

Incident ID:
nAPP2223751933
Cost Center:
1140421001

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		9/23/22 1547	4		
3			6		
5					

Revised Date: 08/25/2020 Rev. 2020.2

Client Sample Results

Client: Ensolum
Project/Site: PLU 409

Job ID: 890-3340-1
SDG: 03E1558114

Client Sample ID: FS01

Lab Sample ID: 890-3340-1
Matrix: Solid
Date Collected: 10/31/22 11:55
Date Received: 10/31/22 15:55
Sample Depth: 2

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/02/22 14:36	11/02/22 15:55	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/02/22 14:36	11/02/22 15:55	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/02/22 14:36	11/02/22 15:55	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		11/02/22 14:36	11/02/22 15:55	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/02/22 14:36	11/02/22 15:55	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		11/02/22 14:36	11/02/22 15:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*11/02/22 14:36*	*11/02/22 15:55*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*11/02/22 14:36*	*11/02/22 15:55*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			11/02/22 16:42	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/03/22 13:10	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *-	50.0		mg/Kg		11/02/22 08:49	11/02/22 21:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U *-	50.0		mg/Kg		11/02/22 08:49	11/02/22 21:19	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/02/22 08:49	11/02/22 21:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*11/02/22 08:49*	*11/02/22 21:19*	*1*
o-Terphenyl	*93*		*70 - 130*	*11/02/22 08:49*	*11/02/22 21:19*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1440**		25.0		mg/Kg			11/02/22 16:10	5

Client Sample ID: FS02

Lab Sample ID: 890-3340-2
Matrix: Solid
Date Collected: 10/31/22 12:00
Date Received: 10/31/22 15:55
Sample Depth: 2

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.208**		0.0499		mg/Kg		11/02/22 14:36	11/02/22 17:28	25
Toluene	**0.689**		0.0499		mg/Kg		11/02/22 14:36	11/02/22 17:28	25
Ethylbenzene	**1.01**		0.0499		mg/Kg		11/02/22 14:36	11/02/22 17:28	25
m-Xylene & p-Xylene	**2.83**		0.0998		mg/Kg		11/02/22 14:36	11/02/22 17:28	25
o-Xylene	**1.16**		0.0499		mg/Kg		11/02/22 14:36	11/02/22 17:28	25
Xylenes, Total	**3.99**		0.0998		mg/Kg		11/02/22 14:36	11/02/22 17:28	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*165*	*S1+*	*70 - 130*	*11/02/22 14:36*	*11/02/22 17:28*	*25*

Client Sample Results

Client: Ensolum
Project/Site: PLU 409

Job ID: 890-3340-1
SDG: 03E1558114

Client Sample ID: FS02

Lab Sample ID: 890-3340-2
Matrix: Solid
Date Collected: 10/31/22 12:00
Date Received: 10/31/22 15:55
Sample Depth: 2

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*11/02/22 14:36*	*11/02/22 17:28*	*25*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**5.90**		0.0998	mg/Kg			11/03/22 16:02	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**1000**		49.9	mg/Kg			11/03/22 13:10	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**273**	***-**	49.9	mg/Kg		11/02/22 08:49	11/02/22 18:25	1
Diesel Range Organics (Over C10-C28)	**731**	***-**	49.9	mg/Kg		11/02/22 08:49	11/02/22 18:25	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/02/22 08:49	11/02/22 18:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*87*		*70 - 130*	*11/02/22 08:49*	*11/02/22 18:25*	*1*
o-Terphenyl	*86*		*70 - 130*	*11/02/22 08:49*	*11/02/22 18:25*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**853**	**F1**	5.00	mg/Kg			11/02/22 16:15	1

Client Sample ID: FS03

Lab Sample ID: 890-3340-3
Matrix: Solid
Date Collected: 10/31/22 12:10
Date Received: 10/31/22 15:55
Sample Depth: 2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.465**		0.198	mg/Kg		11/02/22 14:36	11/02/22 17:48	100
Toluene	**0.313**		0.198	mg/Kg		11/02/22 14:36	11/02/22 17:48	100
Ethylbenzene	**1.92**		0.198	mg/Kg		11/02/22 14:36	11/02/22 17:48	100
m-Xylene & p-Xylene	**2.29**		0.396	mg/Kg		11/02/22 14:36	11/02/22 17:48	100
o-Xylene	**2.38**		0.198	mg/Kg		11/02/22 14:36	11/02/22 17:48	100
Xylenes, Total	**4.67**		0.396	mg/Kg		11/02/22 14:36	11/02/22 17:48	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*144*	*S1+*	*70 - 130*	*11/02/22 14:36*	*11/02/22 17:48*	*100*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*11/02/22 14:36*	*11/02/22 17:48*	*100*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**7.37**		0.396	mg/Kg			11/03/22 16:02	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**2510**		50.0	mg/Kg			11/03/22 13:10	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 409

Job ID: 890-3340-1
SDG: 03E1558114

Client Sample ID: FS03

Lab Sample ID: 890-3340-3
Matrix: Solid
Date Collected: 10/31/22 12:10
Date Received: 10/31/22 15:55
Sample Depth: 2

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**401**	***-**	50.0		mg/Kg		11/02/22 08:49	11/02/22 18:04	1
Diesel Range Organics (Over C10-C28)	**2110**	***-**	50.0		mg/Kg		11/02/22 08:49	11/02/22 18:04	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/02/22 08:49	11/02/22 18:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*77*		*70 - 130*	*11/02/22 08:49*	*11/02/22 18:04*	*1*
o-Terphenyl	*83*		*70 - 130*	*11/02/22 08:49*	*11/02/22 18:04*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**209**		4.99		mg/Kg			11/02/22 16:30	1

Client Sample ID: FS04

Lab Sample ID: 890-3340-4
Matrix: Solid
Date Collected: 10/31/22 12:15
Date Received: 10/31/22 15:55
Sample Depth: 2

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.216**		0.0497		mg/Kg		11/02/22 14:36	11/02/22 18:09	25
Toluene	**0.0611**		0.0497		mg/Kg		11/02/22 14:36	11/02/22 18:09	25
Ethylbenzene	<0.0497	U	0.0497		mg/Kg		11/02/22 14:36	11/02/22 18:09	25
m-Xylene & p-Xylene	**0.373**		0.0994		mg/Kg		11/02/22 14:36	11/02/22 18:09	25
o-Xylene	**0.156**		0.0497		mg/Kg		11/02/22 14:36	11/02/22 18:09	25
Xylenes, Total	**0.529**		0.0994		mg/Kg		11/02/22 14:36	11/02/22 18:09	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*	*11/02/22 14:36*	*11/02/22 18:09*	*25*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*11/02/22 14:36*	*11/02/22 18:09*	*25*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.806**		0.0994		mg/Kg			11/03/22 16:02	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**307**		49.9		mg/Kg			11/03/22 13:10	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**69.3**	***-**	49.9		mg/Kg		11/02/22 08:49	11/02/22 20:14	1
Diesel Range Organics (Over C10-C28)	**238**	***-**	49.9		mg/Kg		11/02/22 08:49	11/02/22 20:14	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/02/22 08:49	11/02/22 20:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 130*	*11/02/22 08:49*	*11/02/22 20:14*	*1*
o-Terphenyl	*84*		*70 - 130*	*11/02/22 08:49*	*11/02/22 20:14*	*1*

Client Sample Results

Client: Ensolum
Project/Site: PLU 409

Job ID: 890-3340-1
SDG: 03E1558114

Client Sample ID: FS04

Lab Sample ID: 890-3340-4
Matrix: Solid
Date Collected: 10/31/22 12:15
Date Received: 10/31/22 15:55
Sample Depth: 2

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**254**		5.05		mg/Kg			11/02/22 16:35	1

Client Sample ID: FS05

Lab Sample ID: 890-3340-5
Matrix: Solid
Date Collected: 10/31/22 12:20
Date Received: 10/31/22 15:55
Sample Depth: 2

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/02/22 14:36	11/02/22 16:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/02/22 14:36	11/02/22 16:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/02/22 14:36	11/02/22 16:16	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/02/22 14:36	11/02/22 16:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/02/22 14:36	11/02/22 16:16	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/02/22 14:36	11/02/22 16:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*11/02/22 14:36*	*11/02/22 16:16*	*1*
1,4-Difluorobenzene (Surr)	*78*		*70 - 130*	*11/02/22 14:36*	*11/02/22 16:16*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			11/02/22 16:42	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**557**		50.0		mg/Kg			11/03/22 13:10	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *-	50.0		mg/Kg		11/02/22 08:49	11/02/22 19:31	1
Diesel Range Organics (Over C10-C28)	**557**	*-	50.0		mg/Kg		11/02/22 08:49	11/02/22 19:31	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/02/22 08:49	11/02/22 19:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*70*		*70 - 130*	*11/02/22 08:49*	*11/02/22 19:31*	*1*
o-Terphenyl	*69*	*S1-*	*70 - 130*	*11/02/22 08:49*	*11/02/22 19:31*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**184**		5.02		mg/Kg			11/02/22 16:49	1

Client Sample Results

Client: Ensolum
Project/Site: PLU 409

Job ID: 890-3340-1
SDG: 03E1558114

Client Sample ID: FS06

Lab Sample ID: 890-3340-6
Matrix: Solid
Date Collected: 10/31/22 13:15
Date Received: 10/31/22 15:55
Sample Depth: 2

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.237**		0.0498		mg/Kg		11/02/22 14:36	11/02/22 18:29	25
Toluene	**0.0701**		0.0498		mg/Kg		11/02/22 14:36	11/02/22 18:29	25
Ethylbenzene	<0.0498	U	0.0498		mg/Kg		11/02/22 14:36	11/02/22 18:29	25
m-Xylene & p-Xylene	**0.611**		0.0996		mg/Kg		11/02/22 14:36	11/02/22 18:29	25
o-Xylene	**0.257**		0.0498		mg/Kg		11/02/22 14:36	11/02/22 18:29	25
Xylenes, Total	**0.868**		0.0996		mg/Kg		11/02/22 14:36	11/02/22 18:29	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*133*	*S1+*	*70 - 130*	*11/02/22 14:36*	*11/02/22 18:29*	*25*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*11/02/22 14:36*	*11/02/22 18:29*	*25*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**1.18**		0.0996		mg/Kg			11/03/22 16:02	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**488**		49.9		mg/Kg			11/03/22 13:10	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**65.8**	***-**	49.9		mg/Kg		11/02/22 08:49	11/02/22 19:09	1
Diesel Range Organics (Over C10-C28)	**422**	***-**	49.9		mg/Kg		11/02/22 08:49	11/02/22 19:09	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/02/22 08:49	11/02/22 19:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*71*		*70 - 130*	*11/02/22 08:49*	*11/02/22 19:09*	*1*
o-Terphenyl	*73*		*70 - 130*	*11/02/22 08:49*	*11/02/22 19:09*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**584**		4.99		mg/Kg			11/02/22 16:54	1

Client Sample ID: FS07

Lab Sample ID: 890-3340-7
Matrix: Solid
Date Collected: 10/31/22 13:20
Date Received: 10/31/22 15:55
Sample Depth: 2

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/02/22 14:36	11/02/22 17:07	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/02/22 14:36	11/02/22 17:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/02/22 14:36	11/02/22 17:07	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		11/02/22 14:36	11/02/22 17:07	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/02/22 14:36	11/02/22 17:07	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		11/02/22 14:36	11/02/22 17:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*11/02/22 14:36*	*11/02/22 17:07*	*1*

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Client Sample Results

Client: Ensolum
Project/Site: PLU 409

Job ID: 890-3340-1
SDG: 03E1558114

Client Sample ID: FS07

Lab Sample ID: 890-3340-7
Matrix: Solid
Date Collected: 10/31/22 13:20
Date Received: 10/31/22 15:55
Sample Depth: 2

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*11/02/22 14:36*	*11/02/22 17:07*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			11/03/22 16:02	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**176**		49.9	mg/Kg			11/03/22 13:10	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *-	49.9	mg/Kg		11/02/22 08:49	11/02/22 20:36	1
Diesel Range Organics (Over C10-C28)	**176**	***-**	49.9	mg/Kg		11/02/22 08:49	11/02/22 20:36	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/02/22 08:49	11/02/22 20:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*83*		*70 - 130*	*11/02/22 08:49*	*11/02/22 20:36*	*1*
o-Terphenyl	*84*		*70 - 130*	*11/02/22 08:49*	*11/02/22 20:36*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**758**		4.95	mg/Kg			11/02/22 16:59	1

Client Sample ID: FS08

Lab Sample ID: 890-3340-8
Matrix: Solid
Date Collected: 10/31/22 13:35
Date Received: 10/31/22 15:55
Sample Depth: 2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.189**		0.0398	mg/Kg		11/02/22 14:36	11/02/22 18:50	20
Toluene	<0.0398	U	0.0398	mg/Kg		11/02/22 14:36	11/02/22 18:50	20
Ethylbenzene	<0.0398	U	0.0398	mg/Kg		11/02/22 14:36	11/02/22 18:50	20
m-Xylene & p-Xylene	<0.0795	U	0.0795	mg/Kg		11/02/22 14:36	11/02/22 18:50	20
o-Xylene	**0.0411**		0.0398	mg/Kg		11/02/22 14:36	11/02/22 18:50	20
Xylenes, Total	<0.0795	U	0.0795	mg/Kg		11/02/22 14:36	11/02/22 18:50	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*11/02/22 14:36*	*11/02/22 18:50*	*20*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*11/02/22 14:36*	*11/02/22 18:50*	*20*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.230**		0.0795	mg/Kg			11/03/22 16:02	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**922**		50.0	mg/Kg			11/03/22 13:10	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 409

Job ID: 890-3340-1
SDG: 03E1558114

Client Sample ID: FS08

Date Collected: 10/31/22 13:35
Date Received: 10/31/22 15:55
Sample Depth: 2

Lab Sample ID: 890-3340-8

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	65.7	*-	50.0		mg/Kg		11/02/22 08:49	11/02/22 18:47	1
Diesel Range Organics (Over C10-C28)	856	*-	50.0		mg/Kg		11/02/22 08:49	11/02/22 18:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/02/22 08:49	11/02/22 18:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 130*	*11/02/22 08:49*	*11/02/22 18:47*	*1*
o-Terphenyl	*82*		*70 - 130*	*11/02/22 08:49*	*11/02/22 18:47*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	279		4.98		mg/Kg			11/02/22 17:04	1

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Environment Testing
Xenco

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

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Project Manager:	Tacoma Morrissey	Bill to: (if different)	Garrett Green
Company Name:	Ensolum	Company Name:	XTO Energy
Address:	3122 National Parks Hwy	Address:	3104 E. Green St.
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	303-887-2946	Email:	Garrett.Green@ExxonMobil.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	PLU 409	Turn Around	
Project Number:	03E1558114	☐ Routine ☑ Rush	
Project Location:		Due Date: 1 Day	
Sampler's Name:	Connor Whitman	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Samples Received Intact:	Yes No	Thermometer ID:	IR-W1007	
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2	
Sample Custody Seals:	Yes No N/A	Temperature Reading:	3.4	
Total Containers:		Corrected Temperature:	3.2	

ANALYSIS REQUEST

Preservative Codes

None: NO DI Water: H_2O
Cool: Cool MeOH: Me
HCL: HC HNO_3: HN
H_2S0_4: H_2 NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: CHLORIDES (EPA: 300.0)	TPH (8015)	BTEX (8021)
FS01	S	10/31/2022	11:55	2'	Comp	1		X	X	X
FS02	S	10/31/2022	12:00	2'	Comp	1		X	X	X
FS03	S	10/31/2022	12:10	2'	Comp	1		X	X	X
FS04	S	10/31/2022	12:15	2'	Comp	1		X	X	X
FS05	S	10/31/2022	12:20	2'	Comp	1		X	X	X
FS06	S	10/31/2022	1:15	2'	Comp	1		X	X	X
FS07	S	10/31/2022	1:20	2'	Comp	1		X	X	X
FS08	S	10/31/2022	1:35	2'	Comp	1		X	X	X

890-3340 Chain of Custody

Sample Comments

Incident ID:
nAPP2223751933
Cost Center:
1140421001
AFE:

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		10.31.22 1555	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Client Sample Results

Client: Ensolum
Project/Site: PLU 409

Job ID: 890-3360-1
SDG: 03E1558114

Client Sample ID: FS09

Lab Sample ID: 890-3360-1
Matrix: Solid
Date Collected: 11/01/22 12:00
Date Received: 11/01/22 16:00
Sample Depth: 2

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/03/22 10:41	11/04/22 03:41	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/03/22 10:41	11/04/22 03:41	1
Ethylbenzene	**0.00390**		0.00200		mg/Kg		11/03/22 10:41	11/04/22 03:41	1
m-Xylene & p-Xylene	**0.00588**		0.00399		mg/Kg		11/03/22 10:41	11/04/22 03:41	1
o-Xylene	**0.00571**		0.00200		mg/Kg		11/03/22 10:41	11/04/22 03:41	1
Xylenes, Total	**0.0116**		0.00399		mg/Kg		11/03/22 10:41	11/04/22 03:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*11/03/22 10:41*	*11/04/22 03:41*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*11/03/22 10:41*	*11/04/22 03:41*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0155**		0.00399		mg/Kg			11/04/22 14:55	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**129**		49.9		mg/Kg			11/04/22 11:23	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/03/22 08:39	11/04/22 07:02	1
Diesel Range Organics (Over C10-C28)	**129**		49.9		mg/Kg		11/03/22 08:39	11/04/22 07:02	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/03/22 08:39	11/04/22 07:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*52*	*S1-*	*70 - 130*	*11/03/22 08:39*	*11/04/22 07:02*	*1*
o-Terphenyl	*57*	*S1-*	*70 - 130*	*11/03/22 08:39*	*11/04/22 07:02*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**62.3**		4.98		mg/Kg			11/04/22 10:12	1

Client Sample ID: FS10

Lab Sample ID: 890-3360-2
Matrix: Solid
Date Collected: 11/01/22 12:05
Date Received: 11/01/22 16:00
Sample Depth: 2

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/03/22 10:41	11/04/22 04:01	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/03/22 10:41	11/04/22 04:01	1
Ethylbenzene	**0.00301**		0.00199		mg/Kg		11/03/22 10:41	11/04/22 04:01	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/03/22 10:41	11/04/22 04:01	1
o-Xylene	**0.00583**		0.00199		mg/Kg		11/03/22 10:41	11/04/22 04:01	1
Xylenes, Total	**0.00583**		0.00398		mg/Kg		11/03/22 10:41	11/04/22 04:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*11/03/22 10:41*	*11/04/22 04:01*	*1*

Client Sample Results

Client: Ensolum
Project/Site: PLU 409

Job ID: 890-3360-1
SDG: 03E1558114

Client Sample ID: FS10

Lab Sample ID: 890-3360-2
Matrix: Solid
Date Collected: 11/01/22 12:05
Date Received: 11/01/22 16:00
Sample Depth: 2

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*11/03/22 10:41*	*11/04/22 04:01*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00884**		0.00398	mg/Kg			11/04/22 14:55	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**973**		50.0	mg/Kg			11/04/22 11:23	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/03/22 08:39	11/04/22 05:35	1
Diesel Range Organics (Over C10-C28)	**863**		50.0	mg/Kg		11/03/22 08:39	11/04/22 05:35	1
Oil Range Organics (Over C28-C36)	**110**		50.0	mg/Kg		11/03/22 08:39	11/04/22 05:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*89*		*70 - 130*	*11/03/22 08:39*	*11/04/22 05:35*	*1*
o-Terphenyl	*98*		*70 - 130*	*11/03/22 08:39*	*11/04/22 05:35*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**190**		4.99	mg/Kg			11/04/22 10:17	1

Client Sample ID: FS11

Lab Sample ID: 890-3360-3
Matrix: Solid
Date Collected: 11/01/22 12:10
Date Received: 11/01/22 16:00
Sample Depth: 2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		11/03/22 10:41	11/04/22 04:21	1
Toluene	<0.00199	U	0.00199	mg/Kg		11/03/22 10:41	11/04/22 04:21	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		11/03/22 10:41	11/04/22 04:21	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		11/03/22 10:41	11/04/22 04:21	1
o-Xylene	**0.00201**		0.00199	mg/Kg		11/03/22 10:41	11/04/22 04:21	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/03/22 10:41	11/04/22 04:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*11/03/22 10:41*	*11/04/22 04:21*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*11/03/22 10:41*	*11/04/22 04:21*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			11/04/22 14:55	1

Client Sample Results

Client: Ensolum
Project/Site: PLU 409

Job ID: 890-3360-1
SDG: 03E1558114

Client Sample ID: FS11

Lab Sample ID: 890-3360-3
Matrix: Solid
Date Collected: 11/01/22 12:10
Date Received: 11/01/22 16:00
Sample Depth: 2

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**650**		50.0		mg/Kg			11/04/22 11:23	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/03/22 08:39	11/04/22 06:18	1
Diesel Range Organics (Over C10-C28)	**576**		50.0		mg/Kg		11/03/22 08:39	11/04/22 06:18	1
Oil Range Organics (Over C28-C36)	**73.8**		50.0		mg/Kg		11/03/22 08:39	11/04/22 06:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 130*	*11/03/22 08:39*	*11/04/22 06:18*	*1*
o-Terphenyl	*97*		*70 - 130*	*11/03/22 08:39*	*11/04/22 06:18*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**803**		4.97		mg/Kg			11/04/22 10:32	1

Client Sample ID: FS12

Lab Sample ID: 890-3360-4
Matrix: Solid
Date Collected: 11/01/22 12:15
Date Received: 11/01/22 16:00
Sample Depth: 2

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/03/22 10:41	11/04/22 06:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/03/22 10:41	11/04/22 06:52	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/03/22 10:41	11/04/22 06:52	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/03/22 10:41	11/04/22 06:52	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/03/22 10:41	11/04/22 06:52	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/03/22 10:41	11/04/22 06:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*11/03/22 10:41*	*11/04/22 06:52*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*11/03/22 10:41*	*11/04/22 06:52*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			11/04/22 14:55	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**1380**		49.9		mg/Kg			11/04/22 11:23	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/03/22 08:39	11/04/22 05:13	1
Diesel Range Organics (Over C10-C28)	**1220**		49.9		mg/Kg		11/03/22 08:39	11/04/22 05:13	1

Client Sample Results

Client: Ensolum
Project/Site: PLU 409

Job ID: 890-3360-1
SDG: 03E1558114

Client Sample ID: FS12

Lab Sample ID: 890-3360-4
Matrix: Solid
Date Collected: 11/01/22 12:15
Date Received: 11/01/22 16:00
Sample Depth: 2

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	**164**		49.9		mg/Kg		11/03/22 08:39	11/04/22 05:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*11/03/22 08:39*	*11/04/22 05:13*	*1*
o-Terphenyl	*101*		*70 - 130*	*11/03/22 08:39*	*11/04/22 05:13*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**304**		5.00		mg/Kg			11/04/22 10:37	1

Client Sample ID: FS13

Lab Sample ID: 890-3360-5
Matrix: Solid
Date Collected: 11/01/22 12:30
Date Received: 11/01/22 16:00
Sample Depth: 2

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/03/22 10:41	11/04/22 07:12	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/03/22 10:41	11/04/22 07:12	1
Ethylbenzene	**0.00248**		0.00199		mg/Kg		11/03/22 10:41	11/04/22 07:12	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/03/22 10:41	11/04/22 07:12	1
o-Xylene	**0.00467**		0.00199		mg/Kg		11/03/22 10:41	11/04/22 07:12	1
Xylenes, Total	**0.00467**		0.00398		mg/Kg		11/03/22 10:41	11/04/22 07:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*11/03/22 10:41*	*11/04/22 07:12*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*11/03/22 10:41*	*11/04/22 07:12*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00715**		0.00398		mg/Kg			11/04/22 14:55	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**62.2**		50.0		mg/Kg			11/04/22 11:23	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/03/22 08:39	11/04/22 07:24	1
Diesel Range Organics (Over C10-C28)	**62.2**		50.0		mg/Kg		11/03/22 08:39	11/04/22 07:24	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/03/22 08:39	11/04/22 07:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*38*	*S1-*	*70 - 130*	*11/03/22 08:39*	*11/04/22 07:24*	*1*
o-Terphenyl	*37*	*S1-*	*70 - 130*	*11/03/22 08:39*	*11/04/22 07:24*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**41.2**		4.98		mg/Kg			11/04/22 10:42	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: PLU 409

Job ID: 890-3360-1
SDG: 03E1558114

Client Sample ID: FS14

Lab Sample ID: 890-3360-6
Matrix: Solid
Date Collected: 11/01/22 12:35
Date Received: 11/01/22 16:00
Sample Depth: 2

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/03/22 10:41	11/04/22 07:33	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/03/22 10:41	11/04/22 07:33	1
Ethylbenzene	**0.00302**		0.00199		mg/Kg		11/03/22 10:41	11/04/22 07:33	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/03/22 10:41	11/04/22 07:33	1
o-Xylene	**0.00638**		0.00199		mg/Kg		11/03/22 10:41	11/04/22 07:33	1
Xylenes, Total	**0.00638**		0.00398		mg/Kg		11/03/22 10:41	11/04/22 07:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*11/03/22 10:41*	*11/04/22 07:33*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*11/03/22 10:41*	*11/04/22 07:33*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00940**		0.00398		mg/Kg			11/04/22 14:55	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**467**		49.9		mg/Kg			11/04/22 11:23	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/03/22 08:39	11/04/22 06:40	1
Diesel Range Organics (Over C10-C28)	**415**		49.9		mg/Kg		11/03/22 08:39	11/04/22 06:40	1
Oil Range Organics (Over C28-C36)	**51.5**		49.9		mg/Kg		11/03/22 08:39	11/04/22 06:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*78*		*70 - 130*	*11/03/22 08:39*	*11/04/22 06:40*	*1*
o-Terphenyl	*85*		*70 - 130*	*11/03/22 08:39*	*11/04/22 06:40*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**248**		5.00		mg/Kg			11/04/22 10:47	1

Client Sample ID: FS15

Lab Sample ID: 890-3360-7
Matrix: Solid
Date Collected: 11/01/22 12:40
Date Received: 11/01/22 16:00
Sample Depth: 2

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/03/22 10:41	11/04/22 07:53	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/03/22 10:41	11/04/22 07:53	1
Ethylbenzene	**0.00348**		0.00200		mg/Kg		11/03/22 10:41	11/04/22 07:53	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		11/03/22 10:41	11/04/22 07:53	1
o-Xylene	**0.00518**		0.00200		mg/Kg		11/03/22 10:41	11/04/22 07:53	1
Xylenes, Total	**0.00518**		0.00401		mg/Kg		11/03/22 10:41	11/04/22 07:53	1

Client Sample Results

Client: Ensolum
Project/Site: PLU 409

Job ID: 890-3360-1
SDG: 03E1558114

Client Sample ID: FS15

Lab Sample ID: 890-3360-7
Matrix: Solid
Date Collected: 11/01/22 12:40
Date Received: 11/01/22 16:00
Sample Depth: 2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*11/03/22 10:41*	*11/04/22 07:53*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*11/03/22 10:41*	*11/04/22 07:53*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00866**		0.00401	mg/Kg			11/04/22 14:55	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**805**		49.9	mg/Kg			11/04/22 11:23	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		11/03/22 08:39	11/04/22 05:57	1
Diesel Range Organics (Over C10-C28)	**710**		49.9	mg/Kg		11/03/22 08:39	11/04/22 05:57	1
Oil Range Organics (Over C28-C36)	**94.7**		49.9	mg/Kg		11/03/22 08:39	11/04/22 05:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*11/03/22 08:39*	*11/04/22 05:57*	*1*
o-Terphenyl	*103*		*70 - 130*	*11/03/22 08:39*	*11/04/22 05:57*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**614**		5.00	mg/Kg			11/04/22 10:52	1

Client Sample ID: FS16

Lab Sample ID: 890-3360-8
Matrix: Solid
Date Collected: 11/01/22 12:45
Date Received: 11/01/22 16:00
Sample Depth: 2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/03/22 10:41	11/04/22 08:14	1
Toluene	**0.00551**		0.00200	mg/Kg		11/03/22 10:41	11/04/22 08:14	1
Ethylbenzene	**0.0397**		0.00200	mg/Kg		11/03/22 10:41	11/04/22 08:14	1
m-Xylene & p-Xylene	**0.0193**		0.00399	mg/Kg		11/03/22 10:41	11/04/22 08:14	1
o-Xylene	**0.0648**		0.00200	mg/Kg		11/03/22 10:41	11/04/22 08:14	1
Xylenes, Total	**0.0841**		0.00399	mg/Kg		11/03/22 10:41	11/04/22 08:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*129*		*70 - 130*	*11/03/22 10:41*	*11/04/22 08:14*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*11/03/22 10:41*	*11/04/22 08:14*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.129**		0.00399	mg/Kg			11/04/22 14:55	1

Client Sample Results

Client: Ensolum
Project/Site: PLU 409

Job ID: 890-3360-1
SDG: 03E1558114

Client Sample ID: FS16

Lab Sample ID: 890-3360-8
Matrix: Solid
Date Collected: 11/01/22 12:45
Date Received: 11/01/22 16:00
Sample Depth: 2

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	3270		50.0		mg/Kg			11/04/22 11:23	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	127		50.0		mg/Kg		11/03/22 08:39	11/04/22 04:30	1
Diesel Range Organics (Over C10-C28)	2740		50.0		mg/Kg		11/03/22 08:39	11/04/22 04:30	1
Oil Range Organics (Over C28-C36)	406		50.0		mg/Kg		11/03/22 08:39	11/04/22 04:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*11/03/22 08:39*	*11/04/22 04:30*	*1*
o-Terphenyl	*105*		*70 - 130*	*11/03/22 08:39*	*11/04/22 04:30*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	851		4.96		mg/Kg			11/04/22 10:57	1

Client Sample ID: FS17

Lab Sample ID: 890-3360-9
Matrix: Solid
Date Collected: 11/01/22 13:00
Date Received: 11/01/22 16:00
Sample Depth: 2

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/03/22 10:41	11/04/22 08:34	1
Toluene	0.00470		0.00199		mg/Kg		11/03/22 10:41	11/04/22 08:34	1
Ethylbenzene	0.0379		0.00199		mg/Kg		11/03/22 10:41	11/04/22 08:34	1
m-Xylene & p-Xylene	0.0443		0.00398		mg/Kg		11/03/22 10:41	11/04/22 08:34	1
o-Xylene	0.0597		0.00199		mg/Kg		11/03/22 10:41	11/04/22 08:34	1
Xylenes, Total	0.104		0.00398		mg/Kg		11/03/22 10:41	11/04/22 08:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*11/03/22 10:41*	*11/04/22 08:34*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*11/03/22 10:41*	*11/04/22 08:34*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.147		0.00398		mg/Kg			11/04/22 14:55	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	2000		50.0		mg/Kg			11/04/22 11:23	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	113		50.0		mg/Kg		11/03/22 08:39	11/04/22 04:52	1
Diesel Range Organics (Over C10-C28)	1660		50.0		mg/Kg		11/03/22 08:39	11/04/22 04:52	1

Client Sample Results

Client: Ensolum
Project/Site: PLU 409

Job ID: 890-3360-1
SDG: 03E1558114

Client Sample ID: FS17

Lab Sample ID: 890-3360-9
Matrix: Solid
Date Collected: 11/01/22 13:00
Date Received: 11/01/22 16:00
Sample Depth: 2

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	222		50.0		mg/Kg		11/03/22 08:39	11/04/22 04:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*79*		*70 - 130*	*11/03/22 08:39*	*11/04/22 04:52*	*1*
o-Terphenyl	*85*		*70 - 130*	*11/03/22 08:39*	*11/04/22 04:52*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	582		5.01		mg/Kg			11/04/22 11:01	1

Client Sample ID: FS18

Lab Sample ID: 890-3360-10
Matrix: Solid
Date Collected: 11/01/22 13:05
Date Received: 11/01/22 16:00
Sample Depth: 2

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/03/22 10:41	11/04/22 08:55	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/03/22 10:41	11/04/22 08:55	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/03/22 10:41	11/04/22 08:55	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/03/22 10:41	11/04/22 08:55	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/03/22 10:41	11/04/22 08:55	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/03/22 10:41	11/04/22 08:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*128*		*70 - 130*	*11/03/22 10:41*	*11/04/22 08:55*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*11/03/22 10:41*	*11/04/22 08:55*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/04/22 14:55	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/04/22 11:23	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/03/22 08:39	11/04/22 07:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/03/22 08:39	11/04/22 07:45	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/03/22 08:39	11/04/22 07:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*76*		*70 - 130*	*11/03/22 08:39*	*11/04/22 07:45*	*1*
o-Terphenyl	*89*		*70 - 130*	*11/03/22 08:39*	*11/04/22 07:45*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	182		5.00		mg/Kg			11/03/22 21:26	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 409

Job ID: 890-3360-1
SDG: 03E1558114

Client Sample ID: FS19

Lab Sample ID: 890-3360-11
Matrix: Solid
Date Collected: 11/01/22 13:10
Date Received: 11/01/22 16:00
Sample Depth: 2

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/03/22 10:41	11/04/22 09:15	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/03/22 10:41	11/04/22 09:15	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/03/22 10:41	11/04/22 09:15	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		11/03/22 10:41	11/04/22 09:15	1
o-Xylene	**0.00432**		0.00200		mg/Kg		11/03/22 10:41	11/04/22 09:15	1
Xylenes, Total	**0.00432**		0.00401		mg/Kg		11/03/22 10:41	11/04/22 09:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*11/03/22 10:41*	*11/04/22 09:15*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*11/03/22 10:41*	*11/04/22 09:15*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00432**		0.00401		mg/Kg			11/04/22 14:55	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**418**		49.9		mg/Kg			11/04/22 11:08	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/03/22 08:35	11/04/22 03:03	1
Diesel Range Organics (Over C10-C28)	**418**		49.9		mg/Kg		11/03/22 08:35	11/04/22 03:03	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/03/22 08:35	11/04/22 03:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 130*	*11/03/22 08:35*	*11/04/22 03:03*	*1*
o-Terphenyl	*83*		*70 - 130*	*11/03/22 08:35*	*11/04/22 03:03*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2440**		25.0		mg/Kg			11/03/22 21:31	5

Client Sample ID: FS20

Lab Sample ID: 890-3360-12
Matrix: Solid
Date Collected: 11/01/22 13:15
Date Received: 11/01/22 16:00
Sample Depth: 2

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/03/22 10:41	11/04/22 09:35	1
Toluene	**0.105**		0.00200		mg/Kg		11/03/22 10:41	11/04/22 09:35	1
Ethylbenzene	**0.187**		0.00200		mg/Kg		11/03/22 10:41	11/04/22 09:35	1
m-Xylene & p-Xylene	**0.0427**		0.00399		mg/Kg		11/03/22 10:41	11/04/22 09:35	1
o-Xylene	**0.231**		0.00200		mg/Kg		11/03/22 10:41	11/04/22 09:35	1
Xylenes, Total	**0.274**		0.00399		mg/Kg		11/03/22 10:41	11/04/22 09:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*160*	*S1+*	*70 - 130*	*11/03/22 10:41*	*11/04/22 09:35*	*1*

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Client Sample Results

Client: Ensolum
Project/Site: PLU 409

Job ID: 890-3360-1
SDG: 03E1558114

Client Sample ID: FS20

Lab Sample ID: 890-3360-12
Matrix: Solid
Date Collected: 11/01/22 13:15
Date Received: 11/01/22 16:00
Sample Depth: 2

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*11/03/22 10:41*	*11/04/22 09:35*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.566**		0.00399	mg/Kg			11/04/22 14:55	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**2200**		50.0	mg/Kg			11/04/22 11:08	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**327**		50.0	mg/Kg		11/03/22 08:35	11/04/22 03:25	1
Diesel Range Organics (Over C10-C28)	**1870**		50.0	mg/Kg		11/03/22 08:35	11/04/22 03:25	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/03/22 08:35	11/04/22 03:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*11/03/22 08:35*	*11/04/22 03:25*	*1*
o-Terphenyl	*89*		*70 - 130*	*11/03/22 08:35*	*11/04/22 03:25*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1140**		5.04	mg/Kg			11/03/22 21:36	1

Client Sample ID: FS21

Lab Sample ID: 890-3360-13
Matrix: Solid
Date Collected: 11/01/22 13:45
Date Received: 11/01/22 16:00
Sample Depth: 2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		11/03/22 10:41	11/04/22 09:56	1
Toluene	**0.0170**		0.00199	mg/Kg		11/03/22 10:41	11/04/22 09:56	1
Ethylbenzene	**0.0980**		0.00199	mg/Kg		11/03/22 10:41	11/04/22 09:56	1
m-Xylene & p-Xylene	**0.193**		0.00398	mg/Kg		11/03/22 10:41	11/04/22 09:56	1
o-Xylene	**0.118**		0.00199	mg/Kg		11/03/22 10:41	11/04/22 09:56	1
Xylenes, Total	**0.311**		0.00398	mg/Kg		11/03/22 10:41	11/04/22 09:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*	*11/03/22 10:41*	*11/04/22 09:56*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*11/03/22 10:41*	*11/04/22 09:56*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.426**		0.00398	mg/Kg			11/04/22 14:55	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**534**		49.9	mg/Kg			11/04/22 11:08	1

Client Sample Results

Client: Ensolum
Project/Site: PLU 409

Job ID: 890-3360-1
SDG: 03E1558114

Client Sample ID: FS21

Date Collected: 11/01/22 13:45
Date Received: 11/01/22 16:00
Sample Depth: 2

Lab Sample ID: 890-3360-13

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	98.8		49.9		mg/Kg		11/03/22 08:35	11/04/22 03:47	1
Diesel Range Organics (Over C10-C28)	435		49.9		mg/Kg		11/03/22 08:35	11/04/22 03:47	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/03/22 08:35	11/04/22 03:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*87*		*70 - 130*	*11/03/22 08:35*	*11/04/22 03:47*	*1*
o-Terphenyl	*85*		*70 - 130*	*11/03/22 08:35*	*11/04/22 03:47*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	39.8		4.95		mg/Kg			11/03/22 21:41	1

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Chain of Custody

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Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

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Project Manager:	Tacoma Morrissey	Bill to: (if different)	Garrett Green
Company Name:	Ensolum	Company Name:	XTO Energy
Address:	3122 National Parks Hwy	Address:	3104 E. Green St.
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	303-887-2946	Email:	Garrett.Green@ExxonMobil.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	PLU 409	Turn Around	
Project Number:	03E1558114	☐ Routine ☑ Rush	
Project Location:		Due Date: 3 day	
Sampler's Name:	Connor Whitman	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT				
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No	
Samples Received Intact:	(Yes) No	Thermometer ID:	TNM007	
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2	
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	5.2	
Total Containers:		Corrected Temperature:	5.0	

ANALYSIS REQUEST

Pres. Code

Parameters: CHLORIDES (EPA: 300.0) | TPH (8015) | BTEX (8021)

890-3360 Chain of Custody

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3: HN
H_2S0_4: H_2 | NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	CHLORIDES (EPA: 300.0)	TPH (8015)	BTEX (8021)
FS09	S	11/1/2022	12:00	2'	Comp	1	x	x	x
FS10	S	11/1/2022	12:05	2'	Comp	1	x	x	x
FS11	S	11/1/2022	12:10	2'	Comp	1	x	x	x
FS12	S	11/1/2022	12:15	2'	Comp	1	x	x	x
FS13	S	11/1/2022	12:30	2'	Comp	1	x	x	x
FS14	S	11/1/2022	12:35	2'	Comp	1	x	x	x
FS15	S	11/1/2022	12:40	2'	Comp	1	x	x	x
FS16	S	11/1/2022	12:45	2'	Comp	1	x	x	x
FS17	S	11/1/2022	1:00	2'	Comp	1	x	x	x
FS18	S	11/1/2022	1:05	2'	Comp	1	x	x	x

Sample Comments

Incident ID:
nAPP2223751933
Cost Center:
1140421001
AFE:

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		11.1.22 1600	3		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Chain of Custody

eurofins Environment Testing Xenco

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

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Project Manager:	Tacoma Morrissey	Bill to: (if different)	Garrett Green
Company Name:	Ensolum	Company Name:	XTO Energy
Address:	3122 National Parks Hwy	Address:	3104 E. Green St.
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	303-887-2946	Email:	Garrett.Green@ExxonMobil.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	PLU 409	Turn Around	
Project Number:	03E1558114	☐ Routine ☑ Rush	
Project Location:		Due Date: 3 day	
Sampler's Name:	Connor Whitman	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	TNM007
Cooler Custody Seals:	Yes No N/A	Correction Factor:	
Sample Custody Seals:	Yes No N/A	Temperature Reading:	
Total Containers:		Corrected Temperature:	

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: CHLORIDES (EPA: 300.0)	Parameters: TPH (8015)	Parameters: BTEX (8021)
FS19	S	11/1/2022	1:10	2'	Comp	1		x	x	x
FS20	S	11/1/2022	1:15	2'	Comp	1		x	x	x
FS21	S	11/1/2022	1:45	2'	Comp	1		x	x	x

Preservative Codes

None: NO DI Water: H_2O
Cool: Cool MeOH: Me
HCL: HC HNO_3: HN
H_2S0_4: H_2 NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Comments

Incident ID:
nAPP2223751933
Cost Center:
1140421001
AFE:

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		11.1.22 1600	4		
3			6		
5					

Revised Date: 08/25/2020 Rev. 2020.2

Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 409

Job ID: 890-3375-1
SDG: 03E1558114

Client Sample ID: FS22

Date Collected: 11/03/22 08:55
Date Received: 11/04/22 08:38
Sample Depth: 2'

Lab Sample ID: 890-3375-1
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/09/22 15:02	11/10/22 11:07	1
Toluene	<0.00201	U F1	0.00201		mg/Kg		11/09/22 15:02	11/10/22 11:07	1
Ethylbenzene	<0.00201	U F1	0.00201		mg/Kg		11/09/22 15:02	11/10/22 11:07	1
m-Xylene & p-Xylene	<0.00402	U F1	0.00402		mg/Kg		11/09/22 15:02	11/10/22 11:07	1
o-Xylene	<0.00201	U F1	0.00201		mg/Kg		11/09/22 15:02	11/10/22 11:07	1
Xylenes, Total	<0.00402	U F1	0.00402		mg/Kg		11/09/22 15:02	11/10/22 11:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*11/09/22 15:02*	*11/10/22 11:07*	*1*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*	*11/09/22 15:02*	*11/10/22 11:07*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			11/10/22 13:32	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**386**		49.8		mg/Kg			11/10/22 09:40	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		11/09/22 14:01	11/10/22 05:17	1
Diesel Range Organics (Over C10-C28)	**386**		49.8		mg/Kg		11/09/22 14:01	11/10/22 05:17	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/09/22 14:01	11/10/22 05:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*11/09/22 14:01*	*11/10/22 05:17*	*1*
o-Terphenyl	*92*		*70 - 130*	*11/09/22 14:01*	*11/10/22 05:17*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**128**		4.98		mg/Kg			11/09/22 13:00	1

Client Sample ID: FS23

Date Collected: 11/03/22 09:15
Date Received: 11/04/22 08:38
Sample Depth: 2'

Lab Sample ID: 890-3375-2
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:02	11/10/22 11:27	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:02	11/10/22 11:27	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:02	11/10/22 11:27	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/09/22 15:02	11/10/22 11:27	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:02	11/10/22 11:27	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/09/22 15:02	11/10/22 11:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*11/09/22 15:02*	*11/10/22 11:27*	*1*

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Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 409

Job ID: 890-3375-1
SDG: 03E1558114

Client Sample ID: FS23

Lab Sample ID: 890-3375-2
Matrix: Solid
Date Collected: 11/03/22 09:15
Date Received: 11/04/22 08:38
Sample Depth: 2'

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*116*		*70 - 130*	*11/09/22 15:02*	*11/10/22 11:27*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			11/10/22 13:32	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**468**		50.0	mg/Kg			11/10/22 09:40	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/09/22 14:01	11/10/22 04:55	1
Diesel Range Organics (Over C10-C28)	**468**		50.0	mg/Kg		11/09/22 14:01	11/10/22 04:55	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/09/22 14:01	11/10/22 04:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*94*		*70 - 130*	*11/09/22 14:01*	*11/10/22 04:55*	*1*
o-Terphenyl	*100*		*70 - 130*	*11/09/22 14:01*	*11/10/22 04:55*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**764**		5.05	mg/Kg			11/09/22 17:23	1

Client Sample ID: FS24

Lab Sample ID: 890-3375-3
Matrix: Solid
Date Collected: 11/03/22 09:20
Date Received: 11/04/22 08:38
Sample Depth: 2'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		11/09/22 15:02	11/10/22 11:48	1
Toluene	<0.00199	U	0.00199	mg/Kg		11/09/22 15:02	11/10/22 11:48	1
Ethylbenzene	**0.0183**		0.00199	mg/Kg		11/09/22 15:02	11/10/22 11:48	1
m-Xylene & p-Xylene	**0.0103**		0.00398	mg/Kg		11/09/22 15:02	11/10/22 11:48	1
o-Xylene	**0.0245**		0.00199	mg/Kg		11/09/22 15:02	11/10/22 11:48	1
Xylenes, Total	**0.0348**		0.00398	mg/Kg		11/09/22 15:02	11/10/22 11:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*148*	*S1+*	*70 - 130*	*11/09/22 15:02*	*11/10/22 11:48*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*11/09/22 15:02*	*11/10/22 11:48*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0531**		0.00398	mg/Kg			11/10/22 13:32	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**1250**		49.9	mg/Kg			11/10/22 09:40	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 409

Job ID: 890-3375-1
SDG: 03E1558114

Client Sample ID: FS24

Lab Sample ID: 890-3375-3
Matrix: Solid
Date Collected: 11/03/22 09:20
Date Received: 11/04/22 08:38
Sample Depth: 2'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**128**		49.9		mg/Kg		11/09/22 14:01	11/10/22 04:12	1
Diesel Range Organics (Over C10-C28)	**1120**		49.9		mg/Kg		11/09/22 14:01	11/10/22 04:12	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/09/22 14:01	11/10/22 04:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*11/09/22 14:01*	*11/10/22 04:12*	*1*
o-Terphenyl	*100*		*70 - 130*	*11/09/22 14:01*	*11/10/22 04:12*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**915**		5.02		mg/Kg			11/09/22 17:30	1

Client Sample ID: FS25

Lab Sample ID: 890-3375-4
Matrix: Solid
Date Collected: 11/03/22 12:25
Date Received: 11/04/22 08:38
Sample Depth: 4'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:02	11/10/22 15:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:02	11/10/22 15:34	1
Ethylbenzene	**0.00373**		0.00200		mg/Kg		11/09/22 15:02	11/10/22 15:34	1
m-Xylene & p-Xylene	**0.0106**		0.00401		mg/Kg		11/09/22 15:02	11/10/22 15:34	1
o-Xylene	**0.00556**		0.00200		mg/Kg		11/09/22 15:02	11/10/22 15:34	1
Xylenes, Total	**0.0162**		0.00401		mg/Kg		11/09/22 15:02	11/10/22 15:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*11/09/22 15:02*	*11/10/22 15:34*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*11/09/22 15:02*	*11/10/22 15:34*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0199**		0.00401		mg/Kg			11/10/22 16:48	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**581**		49.9		mg/Kg			11/10/22 09:40	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/09/22 14:01	11/10/22 04:34	1
Diesel Range Organics (Over C10-C28)	**581**		49.9		mg/Kg		11/09/22 14:01	11/10/22 04:34	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/09/22 14:01	11/10/22 04:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*80*		*70 - 130*	*11/09/22 14:01*	*11/10/22 04:34*	*1*
o-Terphenyl	*83*		*70 - 130*	*11/09/22 14:01*	*11/10/22 04:34*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 409

Job ID: 890-3375-1
SDG: 03E1558114

Client Sample ID: FS25

Lab Sample ID: 890-3375-4
Matrix: Solid
Date Collected: 11/03/22 12:25
Date Received: 11/04/22 08:38
Sample Depth: 4'

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	590		4.97		mg/Kg			11/09/22 17:37	1

Client Sample ID: SW01

Lab Sample ID: 890-3375-5
Matrix: Solid
Date Collected: 11/03/22 12:35
Date Received: 11/04/22 08:38
Sample Depth: 0-4'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/09/22 15:02	11/10/22 15:54	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/09/22 15:02	11/10/22 15:54	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/09/22 15:02	11/10/22 15:54	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/09/22 15:02	11/10/22 15:54	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/09/22 15:02	11/10/22 15:54	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/09/22 15:02	11/10/22 15:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*11/09/22 15:02*	*11/10/22 15:54*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*11/09/22 15:02*	*11/10/22 15:54*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			11/10/22 16:48	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/10/22 09:40	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/08/22 10:44	11/09/22 16:57	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0		mg/Kg		11/08/22 10:44	11/09/22 16:57	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/08/22 10:44	11/09/22 16:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*11/08/22 10:44*	*11/09/22 16:57*	*1*
o-Terphenyl	*96*		*70 - 130*	*11/08/22 10:44*	*11/09/22 16:57*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	25.3	F1	5.04		mg/Kg			11/09/22 17:44	1

Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 409

Job ID: 890-3375-1
SDG: 03E1558114

Client Sample ID: SW02

Date Collected: 11/03/22 12:40
Date Received: 11/04/22 08:38
Sample Depth: 0-4'

Lab Sample ID: 890-3375-6

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:02	11/10/22 16:15	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:02	11/10/22 16:15	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:02	11/10/22 16:15	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/09/22 15:02	11/10/22 16:15	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:02	11/10/22 16:15	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/09/22 15:02	11/10/22 16:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*11/09/22 15:02*	*11/10/22 16:15*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*11/09/22 15:02*	*11/10/22 16:15*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/10/22 16:48	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/10/22 09:40	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/08/22 10:44	11/09/22 17:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0		mg/Kg		11/08/22 10:44	11/09/22 17:19	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/08/22 10:44	11/09/22 17:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 130*	*11/08/22 10:44*	*11/09/22 17:19*	*1*
o-Terphenyl	*94*		*70 - 130*	*11/08/22 10:44*	*11/09/22 17:19*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**27.7**		5.00		mg/Kg			11/09/22 18:06	1

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

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Project Manager:	Tacoma Morrissey	Bill to: (if different)	Garrett Green
Company Name:	Ensolum, LLC	Company Name:	XTO Energy
Address:	3122 Nat'l Parks Hwy	Address:	3104 E Greene St
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	337.257.8307 Email:		tmorrissey@ensolum.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Poker Lake Unit 409	Turn Around	
Project Number:	03E1558114	☑ Routine ☐ Rush	
Project Location:	32.19707, -103.77244	Due Date:	
Sampler's Name:	Meredith Roberts	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	TMM007
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No N/A	Temperature Reading:	4.0
Total Containers:		Corrected Temperature:	3.8

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2SO_4: H_2; NaOH: Na; H_3PO_4: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: $NaSO_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: BTEX	TPH	Chlorides	Sample Comments
FS22	S	11/3/22	0855	2'	C	1		X	X	X	Incident #:
FS23			0915								nAPP2223751933
FS24			0920								
FS25			1225	4'							Cost Center:
SW01			1235	0-4'							1140421001
SW02			1240	0-4'							

MR

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1			11.4.22 838	2		
3				4		
5				6		

Revised Date: 08/25/2020 Rev. 2020.2

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220
Phone. 575-988-3199 Fax 575-988-3199

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler	Lab PM: Kramer Jessica	Carrier Tracking No(s)	COC No: 890-1010 1
Client Contact: Shipping/Receiving	Phone	E-Mail: Jessica Kramer@et.eurofinsus com	State of Origin: New Mexico	Page: Page 1 of 1
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Texas		Job #: 890-3375-1
Address: 1211 W Florida Ave	Due Date Requested: 11/10/2022			
City: Midland	TAT Requested (days):			
State, Zip: TX 79701				
Phone: 432-704-5440(Tel)	PO #:			
Email	WO #:			
Project Name: Poker Lake Unit 409	Project #: 89000093			
Site:	SSOW#:			

Analysis Requested

Preservation Codes

A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U - Acetone, V MCAA, W pH 4-5, Y Trizma, Z other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH	8015MOD_Calc	300_ORGFM_28D/DI_LEACH Chloride	8021B/6035FP_Calc (MOD) BTEX	Total_BTEX_GCV	Total Number of containers	Special Instructions/Note
			Preservation Code:										
FS22 (890-3375-1)	11/3/22	08 55 Mountain		Solid			X	X	X	X	X	1	
FS23 (890-3375-2)	11/3/22	09 15 Mountain		Solid			X	X	X	X	X	1	
FS24 (890-3375-3)	11/3/22	09 20 Mountain		Solid			X	X	X	X	X	1	
FS25 (890-3375-4)	11/3/22	12 25 Mountain		Solid			X	X	X	X	X	1	
SW01 (890-3375-5)	11/3/22	12 35 Mountain		Solid			X	X	X	X	X	1	
SW02 (890-3375-6)	11/3/22	12 40 Mountain		Solid			X	X	X	X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Environment Testing South Central LLC laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Environment Testing South Central LLC attention immediately If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central LLC.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested I II III IV Other (specify) Primary Deliverable Rank 2	Special Instructions/QC Requirements

Empty Kit Relinquished by:	Date	Time	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks.

Ver: 06/08/2021

Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 409

Job ID: 890-3376-1
SDG: 03E1558114

Client Sample ID: FS26

Date Collected: 11/03/22 12:30
Date Received: 11/04/22 08:38
Sample Depth: 0-4'

Lab Sample ID: 890-3376-1

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		11/07/22 11:02	11/07/22 15:06	1
Toluene	<0.00202	U	0.00202		mg/Kg		11/07/22 11:02	11/07/22 15:06	1
Ethylbenzene	**0.0177**	**F1**	0.00202		mg/Kg		11/07/22 11:02	11/07/22 15:06	1
m-Xylene & p-Xylene	**0.00451**	**F1**	0.00403		mg/Kg		11/07/22 11:02	11/07/22 15:06	1
o-Xylene	**0.0143**	**F1**	0.00202		mg/Kg		11/07/22 11:02	11/07/22 15:06	1
Xylenes, Total	**0.0188**	**F1**	0.00403		mg/Kg		11/07/22 11:02	11/07/22 15:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*11/07/22 11:02*	*11/07/22 15:06*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*11/07/22 11:02*	*11/07/22 15:06*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0365**		0.00403		mg/Kg			11/08/22 13:40	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**205**		50.0		mg/Kg			11/08/22 11:48	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/07/22 09:04	11/07/22 13:38	1
Diesel Range Organics (Over C10-C28)	**205**		50.0		mg/Kg		11/07/22 09:04	11/07/22 13:38	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/07/22 09:04	11/07/22 13:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*11/07/22 09:04*	*11/07/22 13:38*	*1*
o-Terphenyl	*96*		*70 - 130*	*11/07/22 09:04*	*11/07/22 13:38*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**493**		4.96		mg/Kg			11/07/22 13:48	1

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

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Project Manager:	Jacoma Morrissey	Bill to: (if different)	Garrett Green
Company Name:	Ensolum, LLC	Company Name:	XTO Energy
Address:	3122 Nat'l Parks Hwy	Address:	3104 E Greene St
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	337-257-8507 Email:		tmorrissey@ensolum.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Poker Lake Unit 409	Turn Around	
Project Number:	1RP-E1558114	☐ Routine ☑ Rush	
Project Location:	32.19707, -103.77244	Due Date:	2 Day
Sampler's Name:	Meredith Roberts	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

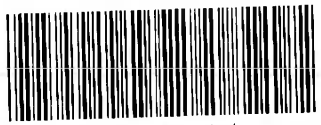
SAMPLE RECEIPT			
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No
Samples Received Intact:	(Yes) No	Thermometer ID:	IWM007
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	4.0
Total Containers:		Corrected Temperature:	3.8

ANALYSIS REQUEST

Preservative Codes

None: NO DI Water: H_2O
Cool: Cool MeOH: Me
HCL: HC HNO_3: HN
H_2SO_4: H_2 NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	BTEX	Chlorides	TPH	Sample Comments
FS26	S	11/3/22	1230	0-4'	C	1		X	X	X	Incident #: nAPP2223751933
										MR	Cost Center: 1140421001



Parameters

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		11.4.22 838	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220
Phone. 575-988-3199 Fax 575-988-3199

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler	Lab PM: Kramer Jessica	Carrier Tracking No(s)	COC No: 890-1010 1
Client Contact: Shipping/Receiving	Phone	E-Mail: Jessica Kramer@et.eurofinsus com	State of Origin: New Mexico	Page: Page 1 of 1
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Texas		Job #: 890-3376-1
Address: 1211 W Florida Ave	Due Date Requested: 11/8/2022			
City: Midland	TAT Requested (days)			
State Zip: TX 79701				
Phone: 432-704-5440(Tel)	PO #:			
Email	WO #:			
Project Name: Poker Lake Unit 409	Project #: 89000093			
Site:	SSOW#:			

Analysis Requested

Preservation Codes

A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Y Trizma, Z other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH	8015MOD_Calc	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035FP_Calc (MOD) BTEX	Total_BTEX_GCV	Total Number of containers	Special Instructions/Note
			Preservation Code:										
FS26 (890-3376-1)	11/3/22	12 30 Mountain		Solid			X	X	X	X	X	1	

Note Since laboratory accreditations are subject to change Eurofins Environment Testing South Central LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central LLC laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Environment Testing South Central LLC attention immediately If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central LLC.

Possible Hazard Identification	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)***
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested I II III IV Other (specify) Primary Deliverable Rank 2	Special Instructions/QC Requirements

Empty Kit Relinquished by:	Date	Time	Method of Shipment:

Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time	Company
Relinquished by:	Date/Time	Company	Received by:	Date/Time:	Company

Custody Seals Intact. Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks.

Ver: 06/08/2021

Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 409

Job ID: 890-3400-1
SDG: 03E1558114

Client Sample ID: FS02A

Lab Sample ID: 890-3400-1
Matrix: Solid
Date Collected: 11/04/22 08:35
Date Received: 11/04/22 16:34
Sample Depth: 2.5'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/09/22 15:41	11/12/22 21:21	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/09/22 15:41	11/12/22 21:21	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/09/22 15:41	11/12/22 21:21	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/09/22 15:41	11/12/22 21:21	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/09/22 15:41	11/12/22 21:21	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/09/22 15:41	11/12/22 21:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*11/09/22 15:41*	*11/12/22 21:21*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*11/09/22 15:41*	*11/12/22 21:21*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			11/14/22 12:42	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**79.9**		50.0		mg/Kg			11/11/22 11:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/08/22 16:10	11/10/22 12:02	1
Diesel Range Organics (Over C10-C28)	<50.0	U F1	50.0		mg/Kg		11/08/22 16:10	11/10/22 12:02	1
Oil Range Organics (Over C28-C36)	**79.9**		50.0		mg/Kg		11/08/22 16:10	11/10/22 12:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 130*	*11/08/22 16:10*	*11/10/22 12:02*	*1*
o-Terphenyl	*89*		*70 - 130*	*11/08/22 16:10*	*11/10/22 12:02*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**952**	**F1**	5.00		mg/Kg			11/11/22 21:09	1

Client Sample ID: FS03A

Lab Sample ID: 890-3400-2
Matrix: Solid
Date Collected: 11/04/22 08:40
Date Received: 11/04/22 16:34
Sample Depth: 2.5'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		11/09/22 15:41	11/12/22 21:42	1
Toluene	<0.00198	U	0.00198		mg/Kg		11/09/22 15:41	11/12/22 21:42	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		11/09/22 15:41	11/12/22 21:42	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		11/09/22 15:41	11/12/22 21:42	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		11/09/22 15:41	11/12/22 21:42	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		11/09/22 15:41	11/12/22 21:42	1

Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 409

Job ID: 890-3400-1
SDG: 03E1558114

Client Sample ID: FS03A

Date Collected: 11/04/22 08:40
Date Received: 11/04/22 16:34
Sample Depth: 2.5'

Lab Sample ID: 890-3400-2

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*11/09/22 15:41*	*11/12/22 21:42*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*11/09/22 15:41*	*11/12/22 21:42*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			11/14/22 12:42	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**1250**		50.0	mg/Kg			11/11/22 11:26	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/08/22 16:10	11/10/22 13:04	1
Diesel Range Organics (Over C10-C28)	**635**		50.0	mg/Kg		11/08/22 16:10	11/10/22 13:04	1
Oil Range Organics (Over C28-C36)	**619**		50.0	mg/Kg		11/08/22 16:10	11/10/22 13:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*96*		*70 - 130*	*11/08/22 16:10*	*11/10/22 13:04*	*1*
o-Terphenyl	*92*		*70 - 130*	*11/08/22 16:10*	*11/10/22 13:04*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**467**		4.95	mg/Kg			11/11/22 21:30	1

Client Sample ID: FS29

Date Collected: 11/04/22 13:30
Date Received: 11/04/22 16:34
Sample Depth: 2'

Lab Sample ID: 890-3400-3

Matrix: Solid

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		11/09/22 15:41	11/12/22 22:02	1
Toluene	<0.00199	U	0.00199	mg/Kg		11/09/22 15:41	11/12/22 22:02	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		11/09/22 15:41	11/12/22 22:02	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		11/09/22 15:41	11/12/22 22:02	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		11/09/22 15:41	11/12/22 22:02	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/09/22 15:41	11/12/22 22:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*11/09/22 15:41*	*11/12/22 22:02*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*11/09/22 15:41*	*11/12/22 22:02*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			11/14/22 12:42	1

Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 409

Job ID: 890-3400-1
SDG: 03E1558114

Client Sample ID: FS29

Lab Sample ID: 890-3400-3
Matrix: Solid
Date Collected: 11/04/22 13:30
Date Received: 11/04/22 16:34
Sample Depth: 2'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/11/22 11:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/08/22 16:10	11/10/22 13:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/08/22 16:10	11/10/22 13:26	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/08/22 16:10	11/10/22 13:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*11/08/22 16:10*	*11/10/22 13:26*	*1*
o-Terphenyl	*96*		*70 - 130*	*11/08/22 16:10*	*11/10/22 13:26*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**146**		4.99		mg/Kg			11/11/22 21:38	1

Client Sample ID: FS30

Lab Sample ID: 890-3400-4
Matrix: Solid
Date Collected: 11/04/22 13:35
Date Received: 11/04/22 16:34
Sample Depth: 2'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:41	11/12/22 22:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:41	11/12/22 22:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:41	11/12/22 22:23	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/09/22 15:41	11/12/22 22:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:41	11/12/22 22:23	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/09/22 15:41	11/12/22 22:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*11/09/22 15:41*	*11/12/22 22:23*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*11/09/22 15:41*	*11/12/22 22:23*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			11/14/22 12:42	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**846**		50.0		mg/Kg			11/11/22 11:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/08/22 16:10	11/10/22 13:47	1
Diesel Range Organics (Over C10-C28)	**490**		50.0		mg/Kg		11/08/22 16:10	11/10/22 13:47	1
Oil Range Organics (Over C28-C36)	**356**		50.0		mg/Kg		11/08/22 16:10	11/10/22 13:47	1

Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 409

Job ID: 890-3400-1
SDG: 03E1558114

Client Sample ID: FS30

Lab Sample ID: 890-3400-4
Matrix: Solid
Date Collected: 11/04/22 13:35
Date Received: 11/04/22 16:34
Sample Depth: 2'

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130	11/08/22 16:10	11/10/22 13:47	1
o-Terphenyl	92		70 - 130	11/08/22 16:10	11/10/22 13:47	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	428		4.97	mg/Kg			11/11/22 21:45	1

Client Sample ID: FS31

Lab Sample ID: 890-3400-5
Matrix: Solid
Date Collected: 11/04/22 13:40
Date Received: 11/04/22 16:34
Sample Depth: 2'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		11/09/22 15:41	11/12/22 22:43	1
Toluene	<0.00201	U	0.00201	mg/Kg		11/09/22 15:41	11/12/22 22:43	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		11/09/22 15:41	11/12/22 22:43	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		11/09/22 15:41	11/12/22 22:43	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		11/09/22 15:41	11/12/22 22:43	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		11/09/22 15:41	11/12/22 22:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	11/09/22 15:41	11/12/22 22:43	1
1,4-Difluorobenzene (Surr)	105		70 - 130	11/09/22 15:41	11/12/22 22:43	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			11/14/22 12:42	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			11/11/22 11:26	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/08/22 16:10	11/10/22 14:07	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/08/22 16:10	11/10/22 14:07	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/08/22 16:10	11/10/22 14:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130	11/08/22 16:10	11/10/22 14:07	1
o-Terphenyl	88		70 - 130	11/08/22 16:10	11/10/22 14:07	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	972		4.96	mg/Kg			11/11/22 21:52	1

Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 409

Job ID: 890-3400-1
SDG: 03E1558114

Client Sample ID: FS32

Lab Sample ID: 890-3400-6
Matrix: Solid
Date Collected: 11/04/22 13:45
Date Received: 11/04/22 16:34
Sample Depth: 2'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:41	11/12/22 23:04	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:41	11/12/22 23:04	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:41	11/12/22 23:04	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/09/22 15:41	11/12/22 23:04	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:41	11/12/22 23:04	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/09/22 15:41	11/12/22 23:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*11/09/22 15:41*	*11/12/22 23:04*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*11/09/22 15:41*	*11/12/22 23:04*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/14/22 12:42	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/11/22 11:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/08/22 16:10	11/10/22 14:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/08/22 16:10	11/10/22 14:28	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/08/22 16:10	11/10/22 14:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 130*	*11/08/22 16:10*	*11/10/22 14:28*	*1*
o-Terphenyl	*101*		*70 - 130*	*11/08/22 16:10*	*11/10/22 14:28*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**870**		5.00		mg/Kg			11/11/22 22:13	1

Client Sample ID: FS33

Lab Sample ID: 890-3400-7
Matrix: Solid
Date Collected: 11/04/22 13:50
Date Received: 11/04/22 16:34
Sample Depth: 2'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:41	11/12/22 23:24	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:41	11/12/22 23:24	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:41	11/12/22 23:24	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/09/22 15:41	11/12/22 23:24	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:41	11/12/22 23:24	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/09/22 15:41	11/12/22 23:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*11/09/22 15:41*	*11/12/22 23:24*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 409

Job ID: 890-3400-1
SDG: 03E1558114

Client Sample ID: FS33

Lab Sample ID: 890-3400-7
Matrix: Solid
Date Collected: 11/04/22 13:50
Date Received: 11/04/22 16:34
Sample Depth: 2'

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*11/09/22 15:41*	*11/12/22 23:24*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			11/14/22 12:42	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			11/11/22 11:26	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		11/08/22 16:10	11/10/22 14:50	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		11/08/22 16:10	11/10/22 14:50	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		11/08/22 16:10	11/10/22 14:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*11/08/22 16:10*	*11/10/22 14:50*	*1*
o-Terphenyl	*95*		*70 - 130*	*11/08/22 16:10*	*11/10/22 14:50*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**38.4**		4.98	mg/Kg			11/11/22 22:20	1

Client Sample ID: FS34

Lab Sample ID: 890-3400-8
Matrix: Solid
Date Collected: 11/04/22 13:55
Date Received: 11/04/22 16:34
Sample Depth: 2'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/09/22 15:41	11/12/22 23:45	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/09/22 15:41	11/12/22 23:45	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/09/22 15:41	11/12/22 23:45	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		11/09/22 15:41	11/12/22 23:45	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/09/22 15:41	11/12/22 23:45	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		11/09/22 15:41	11/12/22 23:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*11/09/22 15:41*	*11/12/22 23:45*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*11/09/22 15:41*	*11/12/22 23:45*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			11/14/22 12:42	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			11/11/22 11:26	1

Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 409

Job ID: 890-3400-1
SDG: 03E1558114

Client Sample ID: FS34

Lab Sample ID: 890-3400-8
Matrix: Solid
Date Collected: 11/04/22 13:55
Date Received: 11/04/22 16:34
Sample Depth: 2'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/08/22 16:10	11/10/22 15:11	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/08/22 16:10	11/10/22 15:11	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/08/22 16:10	11/10/22 15:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*94*		*70 - 130*	*11/08/22 16:10*	*11/10/22 15:11*	*1*
o-Terphenyl	*92*		*70 - 130*	*11/08/22 16:10*	*11/10/22 15:11*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1570**		25.3		mg/Kg			11/11/22 22:27	5

Client Sample ID: FS35

Lab Sample ID: 890-3400-9
Matrix: Solid
Date Collected: 11/04/22 14:00
Date Received: 11/04/22 16:34
Sample Depth: 2'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/09/22 15:41	11/13/22 00:05	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/09/22 15:41	11/13/22 00:05	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/09/22 15:41	11/13/22 00:05	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/09/22 15:41	11/13/22 00:05	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/09/22 15:41	11/13/22 00:05	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/09/22 15:41	11/13/22 00:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*11/09/22 15:41*	*11/13/22 00:05*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*11/09/22 15:41*	*11/13/22 00:05*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			11/14/22 12:42	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/11/22 11:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/08/22 16:10	11/10/22 15:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/08/22 16:10	11/10/22 15:33	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/08/22 16:10	11/10/22 15:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*70 - 130*	*11/08/22 16:10*	*11/10/22 15:33*	*1*
o-Terphenyl	*98*		*70 - 130*	*11/08/22 16:10*	*11/10/22 15:33*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 409

Job ID: 890-3400-1
SDG: 03E1558114

Client Sample ID: FS35

Lab Sample ID: 890-3400-9
Matrix: Solid
Date Collected: 11/04/22 14:00
Date Received: 11/04/22 16:34
Sample Depth: 2'

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3330**		25.1		mg/Kg			11/11/22 22:35	5

Client Sample ID: FS36

Lab Sample ID: 890-3400-10
Matrix: Solid
Date Collected: 11/04/22 14:05
Date Received: 11/04/22 16:34
Sample Depth: 2'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:41	11/13/22 00:26	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:41	11/13/22 00:26	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:41	11/13/22 00:26	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/09/22 15:41	11/13/22 00:26	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:41	11/13/22 00:26	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/09/22 15:41	11/13/22 00:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*123*		*70 - 130*	*11/09/22 15:41*	*11/13/22 00:26*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*11/09/22 15:41*	*11/13/22 00:26*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/14/22 12:42	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**136**		50.0		mg/Kg			11/11/22 11:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/08/22 16:10	11/10/22 15:54	1
Diesel Range Organics (Over C10-C28)	**78.5**		50.0		mg/Kg		11/08/22 16:10	11/10/22 15:54	1
Oil Range Organics (Over C28-C36)	**57.3**		50.0		mg/Kg		11/08/22 16:10	11/10/22 15:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*11/08/22 16:10*	*11/10/22 15:54*	*1*
o-Terphenyl	*95*		*70 - 130*	*11/08/22 16:10*	*11/10/22 15:54*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**872**		4.97		mg/Kg			11/11/22 22:42	1

Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 409

Job ID: 890-3400-1
SDG: 03E1558114

Client Sample ID: FS37

Lab Sample ID: 890-3400-11
Matrix: Solid
Date Collected: 11/04/22 14:10
Date Received: 11/04/22 16:34
Sample Depth: 2'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:41	11/13/22 02:15	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:41	11/13/22 02:15	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:41	11/13/22 02:15	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/09/22 15:41	11/13/22 02:15	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:41	11/13/22 02:15	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/09/22 15:41	11/13/22 02:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*11/09/22 15:41*	*11/13/22 02:15*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*11/09/22 15:41*	*11/13/22 02:15*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/14/22 12:42	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**476**		49.8		mg/Kg			11/11/22 11:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		11/08/22 16:10	11/10/22 16:50	1
Diesel Range Organics (Over C10-C28)	**168**		49.8		mg/Kg		11/08/22 16:10	11/10/22 16:50	1
Oil Range Organics (Over C28-C36)	**308**		49.8		mg/Kg		11/08/22 16:10	11/10/22 16:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*11/08/22 16:10*	*11/10/22 16:50*	*1*
o-Terphenyl	*104*		*70 - 130*	*11/08/22 16:10*	*11/10/22 16:50*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**228**	**F1**	5.04		mg/Kg			11/11/22 22:49	1

Client Sample ID: FS38

Lab Sample ID: 890-3400-12
Matrix: Solid
Date Collected: 11/04/22 14:15
Date Received: 11/04/22 16:34
Sample Depth: 2'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/09/22 15:41	11/13/22 02:36	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/09/22 15:41	11/13/22 02:36	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/09/22 15:41	11/13/22 02:36	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/09/22 15:41	11/13/22 02:36	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/09/22 15:41	11/13/22 02:36	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/09/22 15:41	11/13/22 02:36	1

Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 409

Job ID: 890-3400-1
SDG: 03E1558114

Client Sample ID: FS38

Lab Sample ID: 890-3400-12

Date Collected: 11/04/22 14:15
Matrix: Solid
Date Received: 11/04/22 16:34
Sample Depth: 2'

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*11/09/22 15:41*	*11/13/22 02:36*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*11/09/22 15:41*	*11/13/22 02:36*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			11/14/22 12:42	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			11/11/22 11:26	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/08/22 16:10	11/10/22 17:12	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/08/22 16:10	11/10/22 17:12	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/08/22 16:10	11/10/22 17:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*11/08/22 16:10*	*11/10/22 17:12*	*1*
o-Terphenyl	*94*		*70 - 130*	*11/08/22 16:10*	*11/10/22 17:12*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**67.3**		5.00	mg/Kg			11/11/22 23:10	1

Client Sample ID: SW03

Lab Sample ID: 890-3400-13

Date Collected: 11/04/22 13:05
Matrix: Solid
Date Received: 11/04/22 16:34
Sample Depth: 0-2'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		11/09/22 15:41	11/13/22 02:56	1
Toluene	<0.00201	U	0.00201	mg/Kg		11/09/22 15:41	11/13/22 02:56	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		11/09/22 15:41	11/13/22 02:56	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		11/09/22 15:41	11/13/22 02:56	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		11/09/22 15:41	11/13/22 02:56	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		11/09/22 15:41	11/13/22 02:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*11/09/22 15:41*	*11/13/22 02:56*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*11/09/22 15:41*	*11/13/22 02:56*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			11/14/22 12:42	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**90.0**		49.9	mg/Kg			11/11/22 11:26	1

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Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 409

Job ID: 890-3400-1
SDG: 03E1558114

Client Sample ID: SW03

Lab Sample ID: 890-3400-13
Matrix: Solid
Date Collected: 11/04/22 13:05
Date Received: 11/04/22 16:34
Sample Depth: 0-2'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/08/22 16:10	11/10/22 17:33	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/08/22 16:10	11/10/22 17:33	1
Oil Range Organics (Over C28-C36)	**90.0**		49.9		mg/Kg		11/08/22 16:10	11/10/22 17:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*11/08/22 16:10*	*11/10/22 17:33*	*1*
o-Terphenyl	*98*		*70 - 130*	*11/08/22 16:10*	*11/10/22 17:33*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**33.5**		4.99		mg/Kg			11/11/22 23:17	1

Client Sample ID: SW04

Lab Sample ID: 890-3400-14
Matrix: Solid
Date Collected: 11/04/22 13:10
Date Received: 11/04/22 16:34
Sample Depth: 0-2'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:41	11/13/22 03:16	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:41	11/13/22 03:16	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:41	11/13/22 03:16	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/09/22 15:41	11/13/22 03:16	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:41	11/13/22 03:16	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/09/22 15:41	11/13/22 03:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*11/09/22 15:41*	*11/13/22 03:16*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*11/09/22 15:41*	*11/13/22 03:16*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/14/22 12:42	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/11/22 11:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/08/22 16:10	11/10/22 17:55	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/08/22 16:10	11/10/22 17:55	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/08/22 16:10	11/10/22 17:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*11/08/22 16:10*	*11/10/22 17:55*	*1*
o-Terphenyl	*94*		*70 - 130*	*11/08/22 16:10*	*11/10/22 17:55*	*1*

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Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 409

Job ID: 890-3400-1
SDG: 03E1558114

Client Sample ID: SW04

Lab Sample ID: 890-3400-14
Matrix: Solid
Date Collected: 11/04/22 13:10
Date Received: 11/04/22 16:34
Sample Depth: 0-2'

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1120**		4.99		mg/Kg			11/11/22 23:39	1

Client Sample ID: SW05

Lab Sample ID: 890-3400-15
Matrix: Solid
Date Collected: 11/04/22 13:15
Date Received: 11/04/22 16:34
Sample Depth: 0-2'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:41	11/13/22 03:37	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:41	11/13/22 03:37	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:41	11/13/22 03:37	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/09/22 15:41	11/13/22 03:37	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:41	11/13/22 03:37	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/09/22 15:41	11/13/22 03:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*11/09/22 15:41*	*11/13/22 03:37*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*11/09/22 15:41*	*11/13/22 03:37*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/14/22 12:42	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**115**		50.0		mg/Kg			11/11/22 11:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/08/22 16:10	11/10/22 18:16	1
Diesel Range Organics (Over C10-C28)	**58.8**		50.0		mg/Kg		11/08/22 16:10	11/10/22 18:16	1
Oil Range Organics (Over C28-C36)	**56.3**		50.0		mg/Kg		11/08/22 16:10	11/10/22 18:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*11/08/22 16:10*	*11/10/22 18:16*	*1*
o-Terphenyl	*99*		*70 - 130*	*11/08/22 16:10*	*11/10/22 18:16*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**521**		5.05		mg/Kg			11/11/22 23:46	1

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

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Project Manager:	Tacoma Morrissey	Bill to: (if different)	Garrett Green
Company Name:	Ensolum, LLC	Company Name:	XTO Energy
Address:	3122 Nat'l Parks Hwy	Address:	3104 E Greene St
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	337-257-8307 Email:		tmorrissey@ensolum.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Poker Lake Unit 401	Turn Around	
Project Number:	03E1558114	☑ Routine ☐ Rush	
Project Location:	32.19707, -103.77244	Due Date:	
Sampler's Name:	Meredith Roberts	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	IAM-002
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No N/A	Temperature Reading:	3.2
Total Containers:		Corrected Temperature:	3.0

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2SO_4: H_2; NaOH: Na; H_3PO_4: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: NaSO$_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: BTEX	TPH	Chlorides	Sample Comments
FS02A	S	11/4/22	0835	2.5'	C	1		X	X	X	Incident #:
FS03A			0840	↓							nAPP2223751933
FS29			1330	2'							
FS30			1335								Cost Center:
FS31			1340								1140421001
FS32			1345								
FS33			1350								
FS34			1355								
FS35			1400								
FS36	↓	↓	1405	↓	↓	↓		↓	↓	↓	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		Amanda Stuff	11/4/22 1634			
3				4		
5				6		

Revised Date: 08/25/2020 Rev. 2020.2

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

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Project Manager:	Tacoma Morrissey	Bill to: (if different)	Garrett Green
Company Name:	Ensolum, LLC	Company Name:	3104 E Greene St → XTO Energy
Address:	3122 Nat'l Parks Hwy	Address:	
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	337-257-8307 Email:		tmorrissey@ensolum.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Poker Lake Unit 409	Turn Around	
Project Number:	03E1558114	☑ Routine ☐ Rush	
Project Location:	32.19707, -103.77244	Due Date:	
Sampler's Name:	Meredith Roberts	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No
Samples Received Intact:	(Yes) No	Thermometer ID:	TDM-007
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	3.2
Total Containers:		Corrected Temperature:	3.0

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2SO_4: H_2; NaOH: Na; H_3PO_4: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: $NaSO_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: BTEX	TPH	Chlorides	Sample Comments
FS37	S	11/4/22	1410	2'	C	1		X	X	X	Incident #: nAPP2223751933
FS38	↓	↓	1415	2'	↓	↓		↓	↓	↓	
SW03			1305	0-2'							Cost Center: 114042001
SW04			1310	↓							
SW05			1315	↓							

MR

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	Amanda Stuff	11/4/22 1634	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Client Sample Results

Client: Ensolum
Project/Site: PLU 409

Job ID: 890-3419-1
SDG: 03E1558114

Client Sample ID: FS39

Lab Sample ID: 890-3419-1
Matrix: Solid
Date Collected: 11/08/22 12:40
Date Received: 11/08/22 15:57
Sample Depth: 2'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/10/22 13:53	11/13/22 08:57	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/10/22 13:53	11/13/22 08:57	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/10/22 13:53	11/13/22 08:57	1
m-Xylene & p-Xylene	<0.00402	U F1	0.00402		mg/Kg		11/10/22 13:53	11/13/22 08:57	1
o-Xylene	<0.00201	U F1	0.00201		mg/Kg		11/10/22 13:53	11/13/22 08:57	1
Xylenes, Total	<0.00402	U F1	0.00402		mg/Kg		11/10/22 13:53	11/13/22 08:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*78*		*70 - 130*	*11/10/22 13:53*	*11/13/22 08:57*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*11/10/22 13:53*	*11/13/22 08:57*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			11/14/22 12:42	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/14/22 15:10	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		11/10/22 11:54	11/12/22 11:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/10/22 11:54	11/12/22 11:25	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/10/22 11:54	11/12/22 11:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*80*		*70 - 130*	*11/10/22 11:54*	*11/12/22 11:25*	*1*
o-Terphenyl	*89*		*70 - 130*	*11/10/22 11:54*	*11/12/22 11:25*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**475**	**F1**	4.97		mg/Kg			11/14/22 18:12	1

Client Sample ID: FS40

Lab Sample ID: 890-3419-2
Matrix: Solid
Date Collected: 11/08/22 12:45
Date Received: 11/08/22 15:57
Sample Depth: 2'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		11/10/22 13:53	11/13/22 09:17	1
Toluene	<0.00198	U	0.00198		mg/Kg		11/10/22 13:53	11/13/22 09:17	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		11/10/22 13:53	11/13/22 09:17	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		11/10/22 13:53	11/13/22 09:17	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		11/10/22 13:53	11/13/22 09:17	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		11/10/22 13:53	11/13/22 09:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*11/10/22 13:53*	*11/13/22 09:17*	*1*

Client Sample Results

Client: Ensolum
Project/Site: PLU 409

Job ID: 890-3419-1
SDG: 03E1558114

Client Sample ID: FS40

Lab Sample ID: 890-3419-2
Matrix: Solid
Date Collected: 11/08/22 12:45
Date Received: 11/08/22 15:57
Sample Depth: 2'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*11/10/22 13:53*	*11/13/22 09:17*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			11/14/22 12:42	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**208**		49.8	mg/Kg			11/14/22 15:10	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *1	49.8	mg/Kg		11/10/22 11:54	11/12/22 12:31	1
Diesel Range Organics (Over C10-C28)	**208**		49.8	mg/Kg		11/10/22 11:54	11/12/22 12:31	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		11/10/22 11:54	11/12/22 12:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*88*		*70 - 130*	*11/10/22 11:54*	*11/12/22 12:31*	*1*
o-Terphenyl	*96*		*70 - 130*	*11/10/22 11:54*	*11/12/22 12:31*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**702**		4.96	mg/Kg			11/14/22 18:34	1

Client Sample ID: FS41

Lab Sample ID: 890-3419-3
Matrix: Solid
Date Collected: 11/08/22 12:50
Date Received: 11/08/22 15:57
Sample Depth: 2'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/10/22 13:53	11/13/22 09:38	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/10/22 13:53	11/13/22 09:38	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/10/22 13:53	11/13/22 09:38	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		11/10/22 13:53	11/13/22 09:38	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/10/22 13:53	11/13/22 09:38	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		11/10/22 13:53	11/13/22 09:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*11/10/22 13:53*	*11/13/22 09:38*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*11/10/22 13:53*	*11/13/22 09:38*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			11/14/22 12:42	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			11/14/22 15:10	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 409

Job ID: 890-3419-1
SDG: 03E1558114

Client Sample ID: FS41

Lab Sample ID: 890-3419-3
Matrix: Solid
Date Collected: 11/08/22 12:50
Date Received: 11/08/22 15:57
Sample Depth: 2'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		11/10/22 11:54	11/12/22 12:53	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/10/22 11:54	11/12/22 12:53	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/10/22 11:54	11/12/22 12:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*11/10/22 11:54*	*11/12/22 12:53*	*1*
o-Terphenyl	*116*		*70 - 130*	*11/10/22 11:54*	*11/12/22 12:53*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1280**		5.00		mg/Kg			11/14/22 18:41	1

Client Sample ID: FS42

Lab Sample ID: 890-3419-4
Matrix: Solid
Date Collected: 11/08/22 12:55
Date Received: 11/08/22 15:57
Sample Depth: 2'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/10/22 13:53	11/13/22 09:58	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/10/22 13:53	11/13/22 09:58	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/10/22 13:53	11/13/22 09:58	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/10/22 13:53	11/13/22 09:58	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/10/22 13:53	11/13/22 09:58	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/10/22 13:53	11/13/22 09:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*11/10/22 13:53*	*11/13/22 09:58*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*11/10/22 13:53*	*11/13/22 09:58*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/14/22 12:42	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/14/22 15:10	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		11/10/22 11:54	11/12/22 13:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/10/22 11:54	11/12/22 13:14	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/10/22 11:54	11/12/22 13:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 130*	*11/10/22 11:54*	*11/12/22 13:14*	*1*
o-Terphenyl	*112*		*70 - 130*	*11/10/22 11:54*	*11/12/22 13:14*	*1*

Client Sample Results

Client: Ensolum
Project/Site: PLU 409

Job ID: 890-3419-1
SDG: 03E1558114

Client Sample ID: FS42

Lab Sample ID: 890-3419-4
Matrix: Solid
Date Collected: 11/08/22 12:55
Date Received: 11/08/22 15:57
Sample Depth: 2'

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	41.7		5.03		mg/Kg			11/14/22 18:48	1

Client Sample ID: FS43

Lab Sample ID: 890-3419-5
Matrix: Solid
Date Collected: 11/08/22 13:00
Date Received: 11/08/22 15:57
Sample Depth: 2'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/10/22 13:53	11/13/22 10:19	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/10/22 13:53	11/13/22 10:19	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/10/22 13:53	11/13/22 10:19	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/10/22 13:53	11/13/22 10:19	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/10/22 13:53	11/13/22 10:19	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/10/22 13:53	11/13/22 10:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*11/10/22 13:53*	*11/13/22 10:19*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*11/10/22 13:53*	*11/13/22 10:19*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/14/22 12:42	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/14/22 15:10	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		11/10/22 11:54	11/12/22 13:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/10/22 11:54	11/12/22 13:36	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/10/22 11:54	11/12/22 13:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 130*	*11/10/22 11:54*	*11/12/22 13:36*	*1*
o-Terphenyl	*113*		*70 - 130*	*11/10/22 11:54*	*11/12/22 13:36*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14.1		5.05		mg/Kg			11/14/22 18:55	1

Client Sample Results

Client: Ensolum
Project/Site: PLU 409

Job ID: 890-3419-1
SDG: 03E1558114

Client Sample ID: FS44

Lab Sample ID: 890-3419-6
Matrix: Solid
Date Collected: 11/08/22 13:05
Date Received: 11/08/22 15:57
Sample Depth: 2'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		11/10/22 13:53	11/13/22 10:39	1
Toluene	<0.00198	U	0.00198		mg/Kg		11/10/22 13:53	11/13/22 10:39	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		11/10/22 13:53	11/13/22 10:39	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		11/10/22 13:53	11/13/22 10:39	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		11/10/22 13:53	11/13/22 10:39	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		11/10/22 13:53	11/13/22 10:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*11/10/22 13:53*	*11/13/22 10:39*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*11/10/22 13:53*	*11/13/22 10:39*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			11/14/22 12:42	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/14/22 15:10	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		11/10/22 11:54	11/12/22 13:58	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/10/22 11:54	11/12/22 13:58	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/10/22 11:54	11/12/22 13:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*77*		*70 - 130*	*11/10/22 11:54*	*11/12/22 13:58*	*1*
o-Terphenyl	*89*		*70 - 130*	*11/10/22 11:54*	*11/12/22 13:58*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**23.9**		5.02		mg/Kg			11/14/22 19:17	1

Client Sample ID: FS45

Lab Sample ID: 890-3419-7
Matrix: Solid
Date Collected: 11/08/22 13:10
Date Received: 11/08/22 15:57
Sample Depth: 2'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/10/22 13:53	11/13/22 11:00	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/10/22 13:53	11/13/22 11:00	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/10/22 13:53	11/13/22 11:00	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/10/22 13:53	11/13/22 11:00	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/10/22 13:53	11/13/22 11:00	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/10/22 13:53	11/13/22 11:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*11/10/22 13:53*	*11/13/22 11:00*	*1*

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Client Sample Results

Client: Ensolum
Project/Site: PLU 409

Job ID: 890-3419-1
SDG: 03E1558114

Client Sample ID: FS45

Lab Sample ID: 890-3419-7
Matrix: Solid
Date Collected: 11/08/22 13:10
Date Received: 11/08/22 15:57
Sample Depth: 2'

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*11/10/22 13:53*	*11/13/22 11:00*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			11/14/22 12:42	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			11/14/22 15:10	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0	mg/Kg		11/10/22 11:54	11/12/22 14:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/10/22 11:54	11/12/22 14:19	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/10/22 11:54	11/12/22 14:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*76*		*70 - 130*	*11/10/22 11:54*	*11/12/22 14:19*	*1*
o-Terphenyl	*85*		*70 - 130*	*11/10/22 11:54*	*11/12/22 14:19*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1480**		4.98	mg/Kg			11/14/22 19:24	1

Client Sample ID: FS46

Lab Sample ID: 890-3419-8
Matrix: Solid
Date Collected: 11/08/22 13:15
Date Received: 11/08/22 15:57
Sample Depth: 2'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		11/10/22 13:53	11/13/22 11:20	1
Toluene	<0.00199	U	0.00199	mg/Kg		11/10/22 13:53	11/13/22 11:20	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		11/10/22 13:53	11/13/22 11:20	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		11/10/22 13:53	11/13/22 11:20	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		11/10/22 13:53	11/13/22 11:20	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/10/22 13:53	11/13/22 11:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*11/10/22 13:53*	*11/13/22 11:20*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*11/10/22 13:53*	*11/13/22 11:20*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			11/14/22 12:42	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			11/14/22 15:10	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 409

Job ID: 890-3419-1
SDG: 03E1558114

Client Sample ID: FS46

Lab Sample ID: 890-3419-8
Matrix: Solid
Date Collected: 11/08/22 13:15
Date Received: 11/08/22 15:57
Sample Depth: 2'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		11/10/22 11:54	11/12/22 14:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/10/22 11:54	11/12/22 14:41	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/10/22 11:54	11/12/22 14:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*69*	*S1-*	*70 - 130*	*11/10/22 11:54*	*11/12/22 14:41*	*1*
o-Terphenyl	*75*		*70 - 130*	*11/10/22 11:54*	*11/12/22 14:41*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2420**		24.9		mg/Kg			11/14/22 19:31	5

Client Sample ID: FS47

Lab Sample ID: 890-3419-9
Matrix: Solid
Date Collected: 11/08/22 10:00
Date Received: 11/08/22 15:57
Sample Depth: 2'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/10/22 13:53	11/13/22 11:41	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/10/22 13:53	11/13/22 11:41	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/10/22 13:53	11/13/22 11:41	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/10/22 13:53	11/13/22 11:41	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/10/22 13:53	11/13/22 11:41	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/10/22 13:53	11/13/22 11:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*11/10/22 13:53*	*11/13/22 11:41*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*11/10/22 13:53*	*11/13/22 11:41*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			11/14/22 12:42	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/14/22 15:10	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		11/10/22 11:54	11/12/22 15:03	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/10/22 11:54	11/12/22 15:03	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/10/22 11:54	11/12/22 15:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*62*	*S1-*	*70 - 130*	*11/10/22 11:54*	*11/12/22 15:03*	*1*
o-Terphenyl	*67*	*S1-*	*70 - 130*	*11/10/22 11:54*	*11/12/22 15:03*	*1*

Client Sample Results

Client: Ensolum
Project/Site: PLU 409

Job ID: 890-3419-1
SDG: 03E1558114

Client Sample ID: FS47

Lab Sample ID: 890-3419-9
Matrix: Solid
Date Collected: 11/08/22 10:00
Date Received: 11/08/22 15:57
Sample Depth: 2'

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**20.9**		5.01		mg/Kg			11/14/22 19:38	1

Client Sample ID: FS48

Lab Sample ID: 890-3419-10
Matrix: Solid
Date Collected: 11/08/22 10:05
Date Received: 11/08/22 15:57
Sample Depth: 2'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		11/10/22 13:53	11/13/22 12:01	1
Toluene	<0.00202	U	0.00202		mg/Kg		11/10/22 13:53	11/13/22 12:01	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		11/10/22 13:53	11/13/22 12:01	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		11/10/22 13:53	11/13/22 12:01	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		11/10/22 13:53	11/13/22 12:01	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		11/10/22 13:53	11/13/22 12:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*11/10/22 13:53*	*11/13/22 12:01*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*11/10/22 13:53*	*11/13/22 12:01*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			11/14/22 12:42	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**703**		49.9		mg/Kg			11/14/22 15:10	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		11/10/22 11:54	11/12/22 15:24	1
Diesel Range Organics (Over C10-C28)	**608**		49.9		mg/Kg		11/10/22 11:54	11/12/22 15:24	1
Oil Range Organics (Over C28-C36)	**95.3**		49.9		mg/Kg		11/10/22 11:54	11/12/22 15:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*11/10/22 11:54*	*11/12/22 15:24*	*1*
o-Terphenyl	*97*		*70 - 130*	*11/10/22 11:54*	*11/12/22 15:24*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3610**		24.9		mg/Kg			11/14/22 19:45	5

Client Sample Results

Client: Ensolum
Project/Site: PLU 409

Job ID: 890-3419-1
SDG: 03E1558114

Client Sample ID: FS49

Lab Sample ID: 890-3419-11
Matrix: Solid
Date Collected: 11/08/22 10:10
Date Received: 11/08/22 15:57
Sample Depth: 2'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/10/22 13:53	11/13/22 13:51	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/10/22 13:53	11/13/22 13:51	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/10/22 13:53	11/13/22 13:51	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/10/22 13:53	11/13/22 13:51	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/10/22 13:53	11/13/22 13:51	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/10/22 13:53	11/13/22 13:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*11/10/22 13:53*	*11/13/22 13:51*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*11/10/22 13:53*	*11/13/22 13:51*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/14/22 12:42	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/14/22 15:10	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		11/10/22 11:54	11/12/22 16:07	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/10/22 11:54	11/12/22 16:07	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/10/22 11:54	11/12/22 16:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 130*	*11/10/22 11:54*	*11/12/22 16:07*	*1*
o-Terphenyl	*96*		*70 - 130*	*11/10/22 11:54*	*11/12/22 16:07*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2370**	**F1**	25.2		mg/Kg			11/14/22 19:52	5

Client Sample ID: FS50

Lab Sample ID: 890-3419-12
Matrix: Solid
Date Collected: 11/08/22 14:05
Date Received: 11/08/22 15:57
Sample Depth: 3'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/10/22 13:53	11/13/22 14:11	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/10/22 13:53	11/13/22 14:11	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/10/22 13:53	11/13/22 14:11	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/10/22 13:53	11/13/22 14:11	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/10/22 13:53	11/13/22 14:11	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/10/22 13:53	11/13/22 14:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*11/10/22 13:53*	*11/13/22 14:11*	*1*

Client Sample Results

Client: Ensolum
Project/Site: PLU 409

Job ID: 890-3419-1
SDG: 03E1558114

Client Sample ID: FS50

Lab Sample ID: 890-3419-12
Matrix: Solid
Date Collected: 11/08/22 14:05
Date Received: 11/08/22 15:57
Sample Depth: 3'

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*11/10/22 13:53*	*11/13/22 14:11*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			11/14/22 12:42	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			11/14/22 15:10	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9	mg/Kg		11/10/22 11:54	11/12/22 16:28	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		11/10/22 11:54	11/12/22 16:28	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/10/22 11:54	11/12/22 16:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*11/10/22 11:54*	*11/12/22 16:28*	*1*
o-Terphenyl	*114*		*70 - 130*	*11/10/22 11:54*	*11/12/22 16:28*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**232**		5.02	mg/Kg			11/14/22 20:14	1

Client Sample ID: FS51

Lab Sample ID: 890-3419-13
Matrix: Solid
Date Collected: 11/08/22 10:20
Date Received: 11/08/22 15:57
Sample Depth: 2'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		11/10/22 13:53	11/13/22 14:32	1
Toluene	<0.00202	U	0.00202	mg/Kg		11/10/22 13:53	11/13/22 14:32	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		11/10/22 13:53	11/13/22 14:32	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		11/10/22 13:53	11/13/22 14:32	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		11/10/22 13:53	11/13/22 14:32	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		11/10/22 13:53	11/13/22 14:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*11/10/22 13:53*	*11/13/22 14:32*	*1*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*	*11/10/22 13:53*	*11/13/22 14:32*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			11/14/22 12:42	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**92.9**		50.0	mg/Kg			11/14/22 15:10	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 409

Job ID: 890-3419-1
SDG: 03E1558114

Client Sample ID: FS51

Lab Sample ID: 890-3419-13
Matrix: Solid
Date Collected: 11/08/22 10:20
Date Received: 11/08/22 15:57
Sample Depth: 2'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		11/10/22 11:54	11/12/22 16:50	1
Diesel Range Organics (Over C10-C28)	**92.9**		50.0		mg/Kg		11/10/22 11:54	11/12/22 16:50	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/10/22 11:54	11/12/22 16:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*11/10/22 11:54*	*11/12/22 16:50*	*1*
o-Terphenyl	*98*		*70 - 130*	*11/10/22 11:54*	*11/12/22 16:50*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7780**		50.4		mg/Kg			11/14/22 20:21	10

Client Sample ID: FS52

Lab Sample ID: 890-3419-14
Matrix: Solid
Date Collected: 11/08/22 10:25
Date Received: 11/08/22 15:57
Sample Depth: 2'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/10/22 13:53	11/13/22 14:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/10/22 13:53	11/13/22 14:52	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/10/22 13:53	11/13/22 14:52	1
m-Xylene & p-Xylene	**0.00666**		0.00399		mg/Kg		11/10/22 13:53	11/13/22 14:52	1
o-Xylene	**0.00446**		0.00200		mg/Kg		11/10/22 13:53	11/13/22 14:52	1
Xylenes, Total	**0.0111**		0.00399		mg/Kg		11/10/22 13:53	11/13/22 14:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*	*11/10/22 13:53*	*11/13/22 14:52*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*11/10/22 13:53*	*11/13/22 14:52*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0111**		0.00399		mg/Kg			11/14/22 12:42	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/14/22 15:10	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		11/10/22 11:54	11/12/22 17:11	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/10/22 11:54	11/12/22 17:11	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/10/22 11:54	11/12/22 17:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*11/10/22 11:54*	*11/12/22 17:11*	*1*
o-Terphenyl	*94*		*70 - 130*	*11/10/22 11:54*	*11/12/22 17:11*	*1*

Client Sample Results

Client: Ensolum
Project/Site: PLU 409

Job ID: 890-3419-1
SDG: 03E1558114

Client Sample ID: FS52

Lab Sample ID: 890-3419-14
Matrix: Solid
Date Collected: 11/08/22 10:25
Date Received: 11/08/22 15:57
Sample Depth: 2'

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	26.6		4.97		mg/Kg			11/14/22 20:42	1

Client Sample ID: FS53

Lab Sample ID: 890-3419-15
Matrix: Solid
Date Collected: 11/08/22 10:30
Date Received: 11/08/22 15:57
Sample Depth: 2'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/10/22 13:53	11/13/22 15:13	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/10/22 13:53	11/13/22 15:13	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/10/22 13:53	11/13/22 15:13	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/10/22 13:53	11/13/22 15:13	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/10/22 13:53	11/13/22 15:13	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/10/22 13:53	11/13/22 15:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*11/10/22 13:53*	*11/13/22 15:13*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*11/10/22 13:53*	*11/13/22 15:13*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/14/22 12:42	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/14/22 15:10	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		11/10/22 11:54	11/12/22 17:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/10/22 11:54	11/12/22 17:32	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/10/22 11:54	11/12/22 17:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 130*	*11/10/22 11:54*	*11/12/22 17:32*	*1*
o-Terphenyl	*82*		*70 - 130*	*11/10/22 11:54*	*11/12/22 17:32*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	32.7		5.05		mg/Kg			11/14/22 20:49	1

Client Sample Results

Client: Ensolum
Project/Site: PLU 409

Job ID: 890-3419-1
SDG: 03E1558114

Client Sample ID: FS54

Lab Sample ID: 890-3419-16
Matrix: Solid
Date Collected: 11/08/22 10:35
Date Received: 11/08/22 15:57
Sample Depth: 2'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/10/22 13:53	11/13/22 15:33	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/10/22 13:53	11/13/22 15:33	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/10/22 13:53	11/13/22 15:33	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/10/22 13:53	11/13/22 15:33	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/10/22 13:53	11/13/22 15:33	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/10/22 13:53	11/13/22 15:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*11/10/22 13:53*	*11/13/22 15:33*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*11/10/22 13:53*	*11/13/22 15:33*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			11/14/22 12:42	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/14/22 15:10	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		11/10/22 11:54	11/12/22 17:54	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/10/22 11:54	11/12/22 17:54	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/10/22 11:54	11/12/22 17:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*80*		*70 - 130*	*11/10/22 11:54*	*11/12/22 17:54*	*1*
o-Terphenyl	*90*		*70 - 130*	*11/10/22 11:54*	*11/12/22 17:54*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**14.6**		5.04		mg/Kg			11/14/22 20:56	1

Client Sample ID: FS12A

Lab Sample ID: 890-3419-17
Matrix: Solid
Date Collected: 11/08/22 13:45
Date Received: 11/08/22 15:57
Sample Depth: 3'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/10/22 13:53	11/13/22 15:54	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/10/22 13:53	11/13/22 15:54	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/10/22 13:53	11/13/22 15:54	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/10/22 13:53	11/13/22 15:54	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/10/22 13:53	11/13/22 15:54	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/10/22 13:53	11/13/22 15:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*11/10/22 13:53*	*11/13/22 15:54*	*1*

Client Sample Results

Client: Ensolum
Project/Site: PLU 409

Job ID: 890-3419-1
SDG: 03E1558114

Client Sample ID: FS12A

Lab Sample ID: 890-3419-17
Matrix: Solid
Date Collected: 11/08/22 13:45
Date Received: 11/08/22 15:57
Sample Depth: 3'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*11/10/22 13:53*	*11/13/22 15:54*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			11/14/22 12:42	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			11/14/22 15:10	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9	mg/Kg		11/10/22 11:54	11/12/22 18:15	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		11/10/22 11:54	11/12/22 18:15	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/10/22 11:54	11/12/22 18:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*83*		*70 - 130*	*11/10/22 11:54*	*11/12/22 18:15*	*1*
o-Terphenyl	*95*		*70 - 130*	*11/10/22 11:54*	*11/12/22 18:15*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**23.2**		4.99	mg/Kg			11/14/22 21:03	1

Client Sample ID: FS16A

Lab Sample ID: 890-3419-18
Matrix: Solid
Date Collected: 11/08/22 13:50
Date Received: 11/08/22 15:57
Sample Depth: 3'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		11/10/22 13:53	11/13/22 16:14	1
Toluene	<0.00199	U	0.00199	mg/Kg		11/10/22 13:53	11/13/22 16:14	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		11/10/22 13:53	11/13/22 16:14	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		11/10/22 13:53	11/13/22 16:14	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		11/10/22 13:53	11/13/22 16:14	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/10/22 13:53	11/13/22 16:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*11/10/22 13:53*	*11/13/22 16:14*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*11/10/22 13:53*	*11/13/22 16:14*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			11/14/22 12:42	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			11/14/22 15:10	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 409

Job ID: 890-3419-1
SDG: 03E1558114

Client Sample ID: FS16A

Lab Sample ID: 890-3419-18
Matrix: Solid
Date Collected: 11/08/22 13:50
Date Received: 11/08/22 15:57
Sample Depth: 3'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		11/10/22 11:54	11/12/22 18:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/10/22 11:54	11/12/22 18:36	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/10/22 11:54	11/12/22 18:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*82*		*70 - 130*	*11/10/22 11:54*	*11/12/22 18:36*	*1*
o-Terphenyl	*93*		*70 - 130*	*11/10/22 11:54*	*11/12/22 18:36*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**269**		5.00		mg/Kg			11/14/22 21:10	1

Client Sample ID: FS20A

Lab Sample ID: 890-3419-19
Matrix: Solid
Date Collected: 11/08/22 13:55
Date Received: 11/08/22 15:57
Sample Depth: 3'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/10/22 13:53	11/13/22 16:35	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/10/22 13:53	11/13/22 16:35	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/10/22 13:53	11/13/22 16:35	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/10/22 13:53	11/13/22 16:35	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/10/22 13:53	11/13/22 16:35	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/10/22 13:53	11/13/22 16:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*11/10/22 13:53*	*11/13/22 16:35*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*11/10/22 13:53*	*11/13/22 16:35*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/14/22 12:42	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/14/22 15:10	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		11/10/22 11:54	11/12/22 18:58	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/10/22 11:54	11/12/22 18:58	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/10/22 11:54	11/12/22 18:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*11/10/22 11:54*	*11/12/22 18:58*	*1*
o-Terphenyl	*109*		*70 - 130*	*11/10/22 11:54*	*11/12/22 18:58*	*1*

Client Sample Results

Client: Ensolum
Project/Site: PLU 409

Job ID: 890-3419-1
SDG: 03E1558114

Client Sample ID: FS20A

Lab Sample ID: 890-3419-19
Matrix: Solid
Date Collected: 11/08/22 13:55
Date Received: 11/08/22 15:57
Sample Depth: 3'

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8690		49.7		mg/Kg			11/14/22 21:18	10

Client Sample ID: FS17A

Lab Sample ID: 890-3419-20
Matrix: Solid
Date Collected: 11/08/22 14:00
Date Received: 11/08/22 15:57
Sample Depth: 3'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/10/22 13:53	11/13/22 16:55	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/10/22 13:53	11/13/22 16:55	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/10/22 13:53	11/13/22 16:55	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/10/22 13:53	11/13/22 16:55	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/10/22 13:53	11/13/22 16:55	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/10/22 13:53	11/13/22 16:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*11/10/22 13:53*	*11/13/22 16:55*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*11/10/22 13:53*	*11/13/22 16:55*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			11/14/22 12:42	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			11/14/22 15:10	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *1	49.8		mg/Kg		11/10/22 11:54	11/12/22 19:19	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		11/10/22 11:54	11/12/22 19:19	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/10/22 11:54	11/12/22 19:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*11/10/22 11:54*	*11/12/22 19:19*	*1*
o-Terphenyl	*113*		*70 - 130*	*11/10/22 11:54*	*11/12/22 19:19*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	40.2		4.96		mg/Kg			11/14/22 21:25	1

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 1 of 2

Project Manager:	Tacoma Morrissey	Bill to: (if different)	Garret Green
Company Name:	Ensolum	Company Name:	XTO Energy
Address:	3122 National Parks Hwy	Address:	3104 E. Green St.
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	303-887-2946	Email:	Garret.Green@ExxonMobil.com tmorrissey@ensolum.com

Work Order Comments

Program: UST/PST ☐ **PRP** ☐ **Brownfields** ☐ **RRC** ☐ **Superfund** ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	PLU 409	**Turn Around**	
Project Number:	03E1558114	☑ Routine ☐ Rush	
Project Location:	32.19707 -103.77244	Due Date:	
Sampler's Name:	Kase Parker	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Samples Received Intact:	(Yes) No	Thermometer ID:	TM-F07
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	27.2
Total Containers:		Corrected Temperature:	27.0

Preservative Codes

None: NO DI Water: H_2O
Cool: Cool MeOH: Me
HCL: HC HNO_3: HN
H_2SO_4: H_2 NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	CHLORIDES (EPA: 300.0)	TPH (8015)	BTEX (8021)
FS39	S	11/8/2022	12:40	2'	Comp	1		x	x	x
FS40	S	11/8/2022	12:45	2'	Comp	1		x	x	x
FS41	S	11/8/2022	12:50	2'	Comp	1		x	x	x
FS42	S	11/8/2022	12:55	2'	Comp	1		x	x	x
FS43	S	11/8/2022	13:00	2'	Comp	1		x	x	x
FS44	S	11/8/2022	13:05	2'	Comp	1		x	x	x
FS45	S	11/8/2022	13:10	2'	Comp	1		x	x	x
FS46	S	11/8/2022	13:15	2'	Comp	1		x	x	x
FS47	S	11/8/2022	10:00	2'	Comp	1		x	x	x
FS48	S	11/8/2022	10:05	2'	Comp	1		x	x	x

ANALYSIS REQUEST

Sample Comments

Incident ID:
nAPP2223751933
Cost Center:
1140421001
AFE:

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	Amanda Stoff	11/8/22 1557	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 2 of 2

Project Manager:	Tacoma Morrissey	Bill to: (if different)	Garret Green
Company Name:	Ensolum	Company Name:	XTO Energy
Address:	3122 National Parks Hwy	Address:	3104 E. Green St.
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	303-887-2946	Email:	Garret.Green@ExxonMobil.com tmorrissey@ensolum.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	PLU 409	Turn Around	
Project Number:	03E1558114	☑ Routine ☐ Rush	
Project Location:	32.19707 -103.77244	Due Date:	
Sampler's Name:	Kase Parker	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Samples Received Intact:	Yes No	Thermometer ID:		
Cooler Custody Seals:	Yes No N/A	Correction Factor:		
Sample Custody Seals:	Yes No N/A	Temperature Reading:		
Total Containers:		Corrected Temperature:		

Preservative Codes

None: NO DI Water: H_2O
Cool: Cool MeOH: Me
HCL: HC HNO_3: HN
H_2S0_4: H_2 NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	CHLORIDES (EPA: 300.0)	TPH (8015)	BTEX (8021)	Sample Comments
FS49	S	11/8/2022	10:10	2'	Comp	1		x	x	x	Incident ID:
FS50	S	11/8/2022	14:05	3'	Comp	1		x	x	x	nAPP2223751933
FS51	S	11/8/2022	10:20	2'	Comp	1		x	x	x	Cost Center:
FS52	S	11/8/2022	10:25	2'	Comp	1		x	x	x	1140421001
FS53	S	11/8/2022	10:30	2'	Comp	1		x	x	x	AFE:
FS54	S	11/8/2022	10:35	2'	Comp	1		x	x	x	
FS12A	S	11/8/2022	13:45	3'	Comp	1		x	x	x	
~~FS16A~~	~~S~~	~~11/8/2022~~	~~13:50~~	~~3'~~	~~Comp~~	~~1~~		x	x	x	
FS20A	S	11/8/2022	13:55	3'	Comp	1		x	x	x	
FS17A	S	11/8/2022	14:00	3'	Comp	1		x	x	x	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	Amanda Stuff	11/8/22 1557	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 409

Job ID: 890-3686-1
SDG: 32.19707,-103.77244

Client Sample ID: FS24A

Date Collected: 12/20/22 11:20
Date Received: 12/20/22 14:23
Sample Depth: 3

Lab Sample ID: 890-3686-1

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/28/22 14:22	12/29/22 15:31	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/28/22 14:22	12/29/22 15:31	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/28/22 14:22	12/29/22 15:31	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/28/22 14:22	12/29/22 15:31	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/28/22 14:22	12/29/22 15:31	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/28/22 14:22	12/29/22 15:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*127*		*70 - 130*	*12/28/22 14:22*	*12/29/22 15:31*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*12/28/22 14:22*	*12/29/22 15:31*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/29/22 16:40	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/27/22 10:47	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		12/22/22 08:02	12/22/22 17:37	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/22/22 08:02	12/22/22 17:37	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/22/22 08:02	12/22/22 17:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*12/22/22 08:02*	*12/22/22 17:37*	*1*
o-Terphenyl	*94*		*70 - 130*	*12/22/22 08:02*	*12/22/22 17:37*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7320**	**F1**	50.3		mg/Kg			12/29/22 12:25	10

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 1 of 1

Project Manager:	Tacoma Morrissey	Bill to: (if different)	Garrett Green
Company Name:	Ensolum, LLC	Company Name:	XTO Energy
Address:	3122 Nat'l Parks Hwy	Address:	3104 E Greene St
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	337-257-8307 Email:		tmorrissey@ensolum.com

Work Order Comments

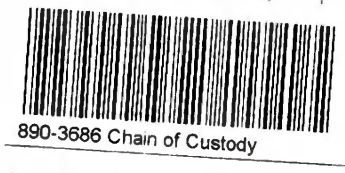
Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Poker Lake Unit 409	Turn Around	
Project Number:	03E155811 4	☑ Routine ☐ Rush	
Project Location:	32.19707, -103.77244	Due Date:	
Sampler's Name:	Meredith Roberts	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No
Samples Received Intact:	(Yes) No	Thermometer ID:	TUM007
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	3.4
Total Containers:		Corrected Temperature:	3.2

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: BTEX	TPH	Chlorides
FS24A	S	12/20/22	1120	3'	C	1		X	X	X



Preservative Codes

None: NO DI Water: H_2O
Cool: Cool MeOH: Me
HCL: HC HNO_3: HN
H_2SO_4: H_2 NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Comments

Incident #:
nAPP2223751933

Cost Center:
1140A21001

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		12-20-22 1423	4		
3			6		
5					

Revised Date: 08/25/2020 Rev. 2020.2

ENSOLUM

APPENDIX E

NMOCD Notifications

Foust, Bryan Jacob

From: Green, Garrett J
Sent: Thursday, August 11, 2022 5:14 PM
To: ocd.enviro@state.nm.us; mike.bratcher@state.nm.us; Hamlet, Robert, EMNRD
Cc: DelawareSpills /SM
Subject: XTO - 24 Hour Notification - PLU 409 - Released on 8/11/22

All,

This is notification of a release greater than 25 barrels that occurred today at the PLU 409 near the GPS coordinates given below. All standing fluids were recovered by vacuum truck. Details will be provided with a form C-141. Please contact us with any questions or concerns.

GPS: 32.19743,-103.77232

Thank you,

Garrett Green
Environmental Coordinator
Delaware Business Unit
(575) 200-0729
Garrett.Green@ExxonMobil.com

XTO Energy, Inc.
3104 E. Greene Street | Carlsbad, NM 88220 | M: (575)200-0729

From: Green, Garrett J
To: ocd.enviro@emnrd.nm.gov; Hamlet, Robert, EMNRD; Bratcher, Michael, EMNRD
Cc: DelawareSpills /SM; Tacoma Morrissey
Subject: XTO - Sampling Notification (Week of 10/24/22 - 10/28/22)
Date: Friday, October 21, 2022 1:10:30 PM

[**EXTERNAL EMAIL**]

All,

XTO plans to complete final sampling activities at the following sites the week of Oct 24, 2022.

Monday
- Elk Wallow CDP/ nAPP2223831434

Tuesday
- Elk Wallow CDP/ nAPP2223831434

Wednesday
- PLU PC 17/ nAPP2223832773

Thursday
- JRU DI 11 Ekalaka 823H/ nAPP2224527297
- Poker Lake Unit 409/ nAPP2223751933
- PLU 27 Brushy Draw 167H / nAPP2222741514

Friday
- JRU DI 11 Ekalaka 823H/ nAPP2224527297
- Poker Lake Unit 409/ nAPP2223751933
- PLU 27 Brushy Draw 167H / nAPP2222741514

Thank you!

Garrett Green
Environmental Coordinator
Delaware Business Unit
(575) 200-0729
Garrett.Green@ExxonMobil.com

XTO Energy, Inc.
3104 E. Greene Street | Carlsbad, NM 88220 | M: (575)200-0729

From: Green, Garrett J
To: Tacoma Morrissey
Subject: FW: XTO - Sampling Notification (Week of 10/31/22 - 11/4/22)
Date: Friday, October 28, 2022 2:16:44 PM

[**EXTERNAL EMAIL**]

From: Green, Garrett J
Sent: Friday, October 28, 2022 1:11 PM
To: ocd.enviro@emnrd.nm.gov; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Billings, Bradford, EMNRD <Bradford.Billings@emnrd.nm.gov>; Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@emnrd.nm.gov>
Cc: DelawareSpills /SM <DelawareSpills@exxonmobil.com>
Subject: XTO - Sampling Notification (Week of 10/31/22 - 11/4/22)

All,

XTO plans to complete final sampling activities at the following sites the week of Oct 31, 2022.

Monday
- Poker Lake Unit 409/ nAPP2223751933

Tuesday
- Poker Lake Unit 409/ nAPP2223751933
- JRU DI 11 Ekalaka 823H/ nAPP2224527297

Wednesday
- Poker Lake Unit 409/ nAPP2223751933
- JRU DI 11 Ekalaka 823H/ nAPP2224527297

Thursday
- Poker Lake Unit 409/ nAPP2223751933
- PLU 30 Big Sinks/ nAPP2209137379, nAPP2208351954, nAPP2206853301

Friday
- Poker Lake Unit 409/ nAPP2223751933

Thank you!

Garrett Green
Environmental Coordinator
Delaware Business Unit
(575) 200-0729

Garrett.Green@ExxonMobil.com

XTO Energy, Inc.
3104 E. Greene Street | Carlsbad, NM 88220 | M: (575)200-0729

From:	Hamlet, Robert, EMNRD
To:	Green, Garrett J
Cc:	Tacoma Morrissey; DelawareSpills /SM; Bratcher, Michael, EMNRD; Nobui, Jennifer, EMNRD; Harimon, Jocelyn, EMNRD
Subject:	(Extension Approval) - XTO - Poker Lake Unit 409 - Incident Number nAPP2223751933
Date:	Monday, November 14, 2022 4:03:33 PM

[**EXTERNAL EMAIL**]

RE: Incident #**NAPP2223751933**

Garrett,

Your request for an extension to **February 7th, 2022** is approved. Please include this e-mail correspondence in the remediation 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: Green, Garrett J <garrett.green@exxonmobil.com>
Sent: Tuesday, November 8, 2022 2:39 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@emnrd.nm.gov>
Cc: Tacoma Morrissey <tmorrissey@ensolum.com>; DelawareSpills /SM <DelawareSpills@exxonmobil.com>
Subject: [EXTERNAL] XTO - Extension Request - Poker Lake Unit 409 - Incident Number nAPP2223751933

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

All,

XTO is requesting an extension for the current deadline of November 9, 2022, for submitting a remediation work plan or closure request required in 19.15.29.12.B.(1) NMAC at the Poker Lake Unit 409 (Incident Number NAPP2223751933). The release occurred on August 11, 2022. An initial

assessment of the release was completed September 23, 2022. Delineation and excavation activities began October 19, 2022 and are ongoing. To date approximately 850 cubic yards of soil have been removed. Analytical results indicate additional excavation is needed. In order to complete the remediation activities, review laboratory analytical results, and submit a remediation work plan or closure request, XTO is requesting a 90-day extension for the release until February 7, 2023.

Thank you,

Garrett Green
Environmental Coordinator
Delaware Business Unit
(575) 200-0729
Garrett.Green@ExxonMobil.com

XTO Energy, Inc.
3104 E. Greene Street | Carlsbad, NM 88220 | M: (575)200-0729

From: Green, Garrett J
To: ocd.enviro@emnrd.nm.gov; Bratcher, Michael, EMNRD; Hamlet, Robert, EMNRD; Billings, Bradford, EMNRD; Harimon, Jocelyn, EMNRD
Cc: DelawareSpills /SM; Tacoma Morrissey
Subject: XTO - Sampling Notification (Week of 11/7/22 - 11/11/22)
Date: Friday, November 4, 2022 11:41:02 AM

[**EXTERNAL EMAIL**]

All,

XTO plans to complete final sampling activities at the following sites the week of Nov 7, 2022.

Monday
- Nash Unit 36/ nAPP2224236187
- ADU 624 & 641 / NAPP2123634554 & NAPP2215449179
- Poker Lake Unit 409/ nAPP2223751933

Tuesday
- Nash Unit 36/ nAPP2224236187
- ADU 624 & 641 / NAPP2123634554 & NAPP2215449179
- Poker Lake Unit 409/ nAPP2223751933

Wednesday
- ADU 624 & 641 / NAPP2123634554 & NAPP2215449179
- Poker Lake Unit 409/ nAPP2223751933

Thursday
- BEU DI 30 Battery/ NAPP2200746777
- Poker Lake Unit 409/ nAPP2223751933

Friday
- BEU DI 30 Battery/ NAPP2200746777

Thank you!

Garrett Green
Environmental Coordinator
Delaware Business Unit
(575) 200-0729
Garrett.Green@ExxonMobil.com

XTO Energy, Inc.
3104 E. Greene Street | Carlsbad, NM 88220 | M: (575)200-0729

From:	Enviro, OCD, EMNRD
To:	Green, Garrett J; Enviro, OCD, EMNRD; Bratcher, Michael, EMNRD; Harimon, Jocelyn, EMNRD; Hamlet, Robert, EMNRD
Cc:	Tacoma Morrissey; Stuart Hyde
Subject:	RE: [EXTERNAL] RE: XTO - Sampling Notification (Week of 12/19/22 - 12/23/22)
Date:	Wednesday, December 21, 2022 2:54:40 PM

[**EXTERNAL EMAIL**]

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

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

From: Green, Garrett J <garrett.green@exxonmobil.com>
Sent: Wednesday, December 21, 2022 12:09 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@emnrd.nm.gov>; Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Cc: Tacoma Morrissey <tmorrissey@ensolum.com>; Stuart Hyde <shyde@ensolum.com>
Subject: [EXTERNAL] RE: XTO - Sampling Notification (Week of 12/19/22 - 12/23/22)

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

Good afternoon,

We have an addition to the sampling schedule below. Friday afternoon we will be collecting final samples at PLU 428 CTB.

Thank you,

Garrett Green
Environmental Coordinator
Delaware Business Unit
(575) 200-0729

Garrett.Green@ExxonMobil.com

XTO Energy, Inc.
3104 E. Greene Street | Carlsbad, NM 88220 | M: (575)200-0729

From: Green, Garrett J
Sent: Thursday, December 15, 2022 7:53 AM
To: 'ocd.enviro@emnrd.nm.gov' <ocd.enviro@emnrd.nm.gov>; 'Bratcher, Michael, EMNRD' <mike.bratcher@emnrd.nm.gov>; 'Harimon, Jocelyn, EMNRD' <Jocelyn.Harimon@emnrd.nm.gov>; 'Hamlet, Robert, EMNRD' <Robert.Hamlet@emnrd.nm.gov>
Cc: 'Tacoma Morrissey' <tmorrissey@ensolum.com>; DelawareSpills /SM <DelawareSpills@exxonmobil.com>
Subject: XTO - Sampling Notification (Week of 12/19/22 - 12/23/22)

All,

XTO plans to complete final sampling activities at the following sites the week of Dec 19, 2022.

- JRU 10 / NAB1521257588 NAB1535754357, & NAB1904653072
- Indian Flats Bass Federal/ nAB1523133089, nAB1520127947, nAB1523155412, nAB1614429643, nAB1526056410
- Poker Lake Unit 409 / nAPP2223751933
- Big Sinks Battery 2-24-30 / NAB1913729531

Thank you,

Garrett Green
Environmental Coordinator
Delaware Business Unit
(575) 200-0729
Garrett.Green@ExxonMobil.com

XTO Energy, Inc.
3104 E. Greene Street | Carlsbad, NM 88220 | M: (575)200-0729

From: Collins, Melanie
To: Tacoma Morrissey; Ashley Ager
Cc: Pennington, Shelby G; Green, Garrett J
Subject: FW: The Oil Conservation Division (OCD) has rejected the application, Application ID: 183747
Date: Friday, June 2, 2023 9:25:45 AM
Attachments: image001.png

[**EXTERNAL EMAIL**]

Denial – 8/11/22 PLU 409

Melanie Collins
XTO ENERGY
Environmental Technician
melanie.collins@exxonmobil.com
432-556-3756

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Friday, June 2, 2023 9:18 AM
To: Collins, Melanie <melanie.collins@exxonmobil.com>
Subject: The Oil Conservation Division (OCD) has rejected the application, Application ID: 183747

To whom it may concern (c/o Melanie Collins for XTO ENERGY, INC),

The OCD has rejected the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2223751933,
for the following reasons:

- **The Closure Report is Denied. Sidewall samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. Sidewall soil sample location SW04 needs to be further delineated until chlorides meet 600 mg/kg. Sidewall soil sample location SW05 needs to be further delineated until TPH meets 100 mg/kg. The step-out sampling process to verify that the release stayed on pad is only valid if the entire release stayed on pad. If any portion of the release is off pad, all sidewall samples must be taken from the sidewall of the excavation.**

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 183747.
Please review and make the required correction(s) prior to resubmitting.
If you have any questions why this application was rejected or believe it was rejected in error, please contact me prior to submitting an additional C-141.

Thank you,
Robert Hamlet
575-748-1283
Robert.Hamlet@emnrd.nm.gov

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

ENSOLUM

APPENDIX B

Referenced Well Records

ENSOLUM

Sample Name: C-4760	Date: 8/1/2023	
Site Name: PLU 411		
Incident Number: nAPP2219646774		
Job Number: 03C1558096		
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: MR	Method: Air Rotary
Coordinates: 32.192855, -103.780646	Hole Diameter: 5"	Total Depth: 108' bgs
Comments: No field screenings conducted.		

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0	CCHE	0'-20' CALICHE with some sand, mottled coloring w white/tan and red, poorly sorted, medium to fien grained, rounded grains, moist.
						10		
						20		20'-30' CALICHE with trace sand, white/tan, coarse to medium grained, poorly sorted, sub-rounded to sub-angular grained, dry.
						30	SP	30'-40' SAND with some caliche, red/purple, med. grained with coarse grained gravel. Gravel sub-angular to sub-rounded, dry. Poorly sorted.
						40		40'-100' SAND red/orange, medium grained, sub-rounded grains, poorly sorted, crystalline grains, dry.
						50		Injection of water and foaming agent @ 40' bgs.
						60		
						70		
						80		
						90		
						100	SP-SC	100'- 108' CLAYEY SAND, fine grained, brown/ orange silt, poorly sorted.
						TD		Total Depth @ 108' bgs.

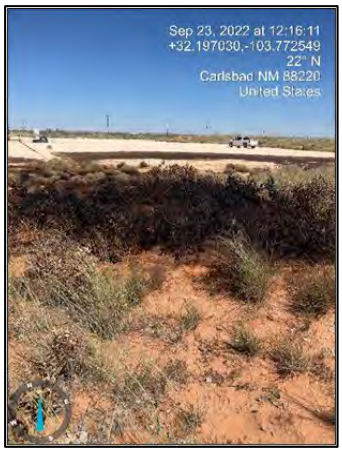
ENSOLUM

APPENDIX C

Photographic Log

ENSOLUM

Photographic Log
XTO Energy
Poker Lake Unit 409
32.197077,-103.772442



Photograph: 1 Date: 9/23/2022
Description: Staining in release footprint
View: North

Photograph: 2 Date: 10/18/2022
Description: Staining and water in release footprint
View: Northeast

Photograph: 3 Date: 11/8/2022
Description: Excavation activities
View: Northeast

Photograph: 4 Date: 12/20/2022
Description: Excavation activities
View: East

ENSOLUM

Photographic Log
XTO Energy
Poker Lake Unit 409
32.197077,-103.772442

Photograph: 5 Date: 2/12/2024
Description: Excavation activities.
View: West

Photograph: 6 Date: 2/13/2024
Description: Excavation activities.
View: East

Photograph: 7 Date: 2/14/2024
Description: Completed excavation.
View: West

Photograph: 8 Date: 3/18/2024
Description: Completed excavation
View: East

ENSOLUM

APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation

eurofins | Environment Testing

ANALYTICAL REPORT

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-3376-1
Laboratory Sample Delivery Group: 03E1558114
Client Project/Site: Poker Lake Unit 409
Revision: 1

For:
Ensolum
705 W. Wadley
Suite 210
Midland, Texas 79701

Attn: Tacoma Morrissey

JKramer

Authorized for release by:
11/9/2022 7:19:11 PM

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

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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

Client: Ensolum
Project/Site: Poker Lake Unit 409

Laboratory Job ID: 890-3376-1
SDG: 03E1558114

Table of Contents

Definitions/Glossary

Client: Ensolum
Project/Site: Poker Lake Unit 409

Job ID: 890-3376-1
SDG: 03E1558114

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Ensolum
Project/Site: Poker Lake Unit 409

Job ID: 890-3376-1
SDG: 03E1558114

Job ID: 890-3376-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-3376-1

REVISION

The report being provided is a revision of the original report sent on 11/8/2022. The report (revision 1) is being revised due to Per client email, requesting sample depth to be corrected.

Report revision history

Receipt
The sample was received on 11/4/2022 8:38 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.8°C

Receipt Exceptions
The following sample was received and analyzed from an unpreserved bulk soil jar: FS26 (890-3376-1).

GC VOA
Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-38855 and analytical batch 880-38810 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

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

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

Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 409

Job ID: 890-3376-1
SDG: 03E1558114

Client Sample ID: FS26

Date Collected: 11/03/22 12:30
Date Received: 11/04/22 08:38
Sample Depth: 4' bgs

Lab Sample ID: 890-3376-1

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		11/07/22 11:02	11/07/22 15:06	1
Toluene	<0.00202	U	0.00202		mg/Kg		11/07/22 11:02	11/07/22 15:06	1
Ethylbenzene	**0.0177**	**F1**	0.00202		mg/Kg		11/07/22 11:02	11/07/22 15:06	1
m-Xylene & p-Xylene	**0.00451**	**F1**	0.00403		mg/Kg		11/07/22 11:02	11/07/22 15:06	1
o-Xylene	**0.0143**	**F1**	0.00202		mg/Kg		11/07/22 11:02	11/07/22 15:06	1
Xylenes, Total	**0.0188**	**F1**	0.00403		mg/Kg		11/07/22 11:02	11/07/22 15:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*11/07/22 11:02*	*11/07/22 15:06*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*11/07/22 11:02*	*11/07/22 15:06*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0365**		0.00403		mg/Kg			11/08/22 13:40	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**205**		50.0		mg/Kg			11/08/22 11:48	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/07/22 09:04	11/07/22 13:38	1
Diesel Range Organics (Over C10-C28)	**205**		50.0		mg/Kg		11/07/22 09:04	11/07/22 13:38	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/07/22 09:04	11/07/22 13:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*11/07/22 09:04*	*11/07/22 13:38*	*1*
o-Terphenyl	*96*		*70 - 130*	*11/07/22 09:04*	*11/07/22 13:38*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**493**		4.96		mg/Kg			11/07/22 13:48	1

Surrogate Summary

Client: Ensolum
Project/Site: Poker Lake Unit 409

Job ID: 890-3376-1
SDG: 03E1558114

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-3376-1	FS26	95	86
890-3376-1 MS	FS26	97	100
890-3376-1 MSD	FS26	112	95
LCS 880-38855/1-A	Lab Control Sample	108	93
LCSD 880-38855/2-A	Lab Control Sample Dup	97	99
MB 880-38855/5-A	Method Blank	84	101

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-21167-A-1-D MS	Matrix Spike	97	77
880-21167-A-1-E MSD	Matrix Spike Duplicate	81	74
890-3376-1	FS26	97	96
LCS 880-38817/2-A	Lab Control Sample	100	97
LCSD 880-38817/3-A	Lab Control Sample Dup	100	100
MB 880-38817/1-A	Method Blank	99	102

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 409

Job ID: 890-3376-1
SDG: 03E1558114

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-38855/5-A
Matrix: Solid
Analysis Batch: 38810

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 38855

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/07/22 11:02	11/07/22 14:38	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/07/22 11:02	11/07/22 14:38	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/07/22 11:02	11/07/22 14:38	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/07/22 11:02	11/07/22 14:38	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/07/22 11:02	11/07/22 14:38	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/07/22 11:02	11/07/22 14:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*	*11/07/22 11:02*	*11/07/22 14:38*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*11/07/22 11:02*	*11/07/22 14:38*	*1*

Lab Sample ID: LCS 880-38855/1-A
Matrix: Solid
Analysis Batch: 38810

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 38855

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1042		mg/Kg		104	70 - 130		
Toluene			0.100	0.1138		mg/Kg		114	70 - 130		
Ethylbenzene			0.100	0.1111		mg/Kg		111	70 - 130		
m-Xylene & p-Xylene			0.200	0.1994		mg/Kg		100	70 - 130		
o-Xylene			0.100	0.09890		mg/Kg		99	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*

Lab Sample ID: LCSD 880-38855/2-A
Matrix: Solid
Analysis Batch: 38810

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 38855

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09577		mg/Kg		96	70 - 130	8	35
Toluene			0.100	0.1047		mg/Kg		105	70 - 130	8	35
Ethylbenzene			0.100	0.09891		mg/Kg		99	70 - 130	12	35
m-Xylene & p-Xylene			0.200	0.1722		mg/Kg		86	70 - 130	15	35
o-Xylene			0.100	0.08427		mg/Kg		84	70 - 130	16	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: 890-3376-1 MS
Matrix: Solid
Analysis Batch: 38810

Client Sample ID: FS26
Prep Type: Total/NA
Prep Batch: 38855

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00202	U	0.101	0.09235		mg/Kg		91	70 - 130		
Toluene	<0.00202	U	0.101	0.09881		mg/Kg		97	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 409

Job ID: 890-3376-1
SDG: 03E1558114

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

Lab Sample ID: 890-3376-1 MS
Matrix: Solid
Analysis Batch: 38810

Client Sample ID: FS26
Prep Type: Total/NA
Prep Batch: 38855

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	0.0177	F1	0.101	0.08335	F1	mg/Kg		65	70 - 130
m-Xylene & p-Xylene	0.00451	F1	0.202	0.1199	F1	mg/Kg		57	70 - 130
o-Xylene	0.0143	F1	0.101	0.07681	F1	mg/Kg		62	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: 890-3376-1 MSD
Matrix: Solid
Analysis Batch: 38810

Client Sample ID: FS26
Prep Type: Total/NA
Prep Batch: 38855

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00202	U	0.0994	0.1011		mg/Kg		101	70 - 130	9	35
Toluene	<0.00202	U	0.0994	0.1115		mg/Kg		112	70 - 130	12	35
Ethylbenzene	0.0177	F1	0.0994	0.09824		mg/Kg		81	70 - 130	16	35
m-Xylene & p-Xylene	0.00451	F1	0.199	0.1351	F1	mg/Kg		66	70 - 130	12	35
o-Xylene	0.0143	F1	0.0994	0.08784		mg/Kg		74	70 - 130	13	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*

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

Lab Sample ID: MB 880-38817/1-A
Matrix: Solid
Analysis Batch: 38798

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 38817

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/07/22 08:44	11/07/22 08:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/07/22 08:44	11/07/22 08:46	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/07/22 08:44	11/07/22 08:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*11/07/22 08:44*	*11/07/22 08:46*	*1*
o-Terphenyl	*102*		*70 - 130*	*11/07/22 08:44*	*11/07/22 08:46*	*1*

Lab Sample ID: LCS 880-38817/2-A
Matrix: Solid
Analysis Batch: 38798

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 38817

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10			1000	815.6		mg/Kg		82	70 - 130
Diesel Range Organics (Over C10-C28)			1000	952.9		mg/Kg		95	70 - 130

QC Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 409

Job ID: 890-3376-1
SDG: 03E1558114

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

Lab Sample ID: LCS 880-38817/2-A
Matrix: Solid
Analysis Batch: 38798

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 38817

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	100		70 - 130
o-Terphenyl	97		70 - 130

Lab Sample ID: LCSD 880-38817/3-A
Matrix: Solid
Analysis Batch: 38798

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 38817

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	787.9		mg/Kg		79	70 - 130	3	20
Diesel Range Organics (Over C10-C28)			1000	973.0		mg/Kg		97	70 - 130	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	100		70 - 130
o-Terphenyl	100		70 - 130

Lab Sample ID: 880-21167-A-1-D MS
Matrix: Solid
Analysis Batch: 38798

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 38817

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	997	868.4		mg/Kg		85	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	997	916.7		mg/Kg		92	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	97		70 - 130
o-Terphenyl	77		70 - 130

Lab Sample ID: 880-21167-A-1-E MSD
Matrix: Solid
Analysis Batch: 38798

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 38817

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	895.3		mg/Kg		88	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<50.0	U	999	900.5		mg/Kg		90	70 - 130	2	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	81		70 - 130
o-Terphenyl	74		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 409

Job ID: 890-3376-1
SDG: 03E1558114

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-38812/1-A
Matrix: Solid
Analysis Batch: 38881

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			11/07/22 13:33	1

Lab Sample ID: LCS 880-38812/2-A
Matrix: Solid
Analysis Batch: 38881

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	258.2		mg/Kg		103	90 - 110		

Lab Sample ID: LCSD 880-38812/3-A
Matrix: Solid
Analysis Batch: 38881

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	252.8		mg/Kg		101	90 - 110	2	20

Lab Sample ID: 890-3376-1 MS
Matrix: Solid
Analysis Batch: 38881

Client Sample ID: FS26
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	493		248	730.6		mg/Kg		96	90 - 110		

Lab Sample ID: 890-3376-1 MSD
Matrix: Solid
Analysis Batch: 38881

Client Sample ID: FS26
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	493		248	722.3		mg/Kg		92	90 - 110	1	20

QC Association Summary

Client: Ensolum
Project/Site: Poker Lake Unit 409

Job ID: 890-3376-1
SDG: 03E1558114

GC VOA

Analysis Batch: 38810

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3376-1	FS26	Total/NA	Solid	8021B	38855
MB 880-38855/5-A	Method Blank	Total/NA	Solid	8021B	38855
LCS 880-38855/1-A	Lab Control Sample	Total/NA	Solid	8021B	38855
LCSD 880-38855/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	38855
890-3376-1 MS	FS26	Total/NA	Solid	8021B	38855
890-3376-1 MSD	FS26	Total/NA	Solid	8021B	38855

Prep Batch: 38855

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3376-1	FS26	Total/NA	Solid	5035	
MB 880-38855/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-38855/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-38855/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3376-1 MS	FS26	Total/NA	Solid	5035	
890-3376-1 MSD	FS26	Total/NA	Solid	5035	

Analysis Batch: 39003

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3376-1	FS26	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 38798

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3376-1	FS26	Total/NA	Solid	8015B NM	38817
MB 880-38817/1-A	Method Blank	Total/NA	Solid	8015B NM	38817
LCS 880-38817/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	38817
LCSD 880-38817/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	38817
880-21167-A-1-D MS	Matrix Spike	Total/NA	Solid	8015B NM	38817
880-21167-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	38817

Prep Batch: 38817

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3376-1	FS26	Total/NA	Solid	8015NM Prep	
MB 880-38817/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-38817/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-38817/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-21167-A-1-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-21167-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 38987

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3376-1	FS26	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 38812

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3376-1	FS26	Soluble	Solid	DI Leach	
MB 880-38812/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-38812/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-38812/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

QC Association Summary

Client: Ensolum
Project/Site: Poker Lake Unit 409

Job ID: 890-3376-1
SDG: 03E1558114

HPLC/IC (Continued)

Leach Batch: 38812 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3376-1 MS	FS26	Soluble	Solid	DI Leach	
890-3376-1 MSD	FS26	Soluble	Solid	DI Leach	

Analysis Batch: 38881

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3376-1	FS26	Soluble	Solid	300.0	38812
MB 880-38812/1-A	Method Blank	Soluble	Solid	300.0	38812
LCS 880-38812/2-A	Lab Control Sample	Soluble	Solid	300.0	38812
LCSD 880-38812/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	38812
890-3376-1 MS	FS26	Soluble	Solid	300.0	38812
890-3376-1 MSD	FS26	Soluble	Solid	300.0	38812

Lab Chronicle

Client: Ensolum
Project/Site: Poker Lake Unit 409

Job ID: 890-3376-1
SDG: 03E1558114

Client Sample ID: FS26

Date Collected: 11/03/22 12:30
Date Received: 11/04/22 08:38

Lab Sample ID: 890-3376-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	38855	11/07/22 11:02	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	38810	11/07/22 15:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39003	11/08/22 13:40	AJ	EET MID
Total/NA	Analysis	8015 NM		1			38987	11/08/22 11:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	38817	11/07/22 09:04	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	38798	11/07/22 13:38	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	38812	11/07/22 08:15	CH	EET MID
Soluble	Analysis	300.0		1			38881	11/07/22 13:48	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Poker Lake Unit 409

Job ID: 890-3376-1
SDG: 03E1558114

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-24	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ensolum
Project/Site: Poker Lake Unit 409

Job ID: 890-3376-1
SDG: 03E1558114

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	MCAWW	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International
MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum
Project/Site: Poker Lake Unit 409

Job ID: 890-3376-1
SDG: 03E1558114

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-3376-1	FS26	Solid	11/03/22 12:30	11/04/22 08:38	4' bgs

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

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Project Manager:	Jacoma Morrissey	Bill to: (if different)	Garrett Green
Company Name:	Ensolum, LLC	Company Name:	XTO Energy
Address:	3122 Nat'l Parks Hwy	Address:	3104 E Greene St
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	337-257-8507 Email:		tmorrissey@ensolum.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Poker Lake Unit 409	Turn Around	
Project Number:	22E1558114	☐ Routine ☑ Rush	
Project Location:	32.9707, -103.7724	Due Date:	2 Day
Sampler's Name:	Meredith Roberts	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No
Samples Received Intact:	(Yes) No	Thermometer ID:	TNM007
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	4.0
Total Containers:		Corrected Temperature:	3.8

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	BTEX	Chlorides	TPH	Parameters
FS26	S	11/3/22	1230	0-4'	C	1		X	X	X	MR

890-3376 Chain of Custody

Preservative Codes

None: NO DI Water: H_2O
Cool: Cool MeOH: Me
HCL: HC HNO_3: HN
H_2SO_4: H_2 NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Comments

Incident #:
nAPP2223751933

Cost Center:
1140421001

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1			11.4.22 838	2		
3				4		
5				6		

Revised Date: 08/25/2020 Rev. 2020.2

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220
Phone. 575-988-3199 Fax 575-988-3199

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler	Lab PM: Kramer Jessica	Carrier Tracking No(s)	COC No: 890-1010 1
Client Contact: Shipping/Receiving	Phone	E-Mail: Jessica Kramer@et.eurofinsus com	State of Origin: New Mexico	Page: Page 1 of 1
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Texas		Job #: 890-3376-1
Address: 1211 W Florida Ave	Due Date Requested: 11/8/2022			
City: Midland	TAT Requested (days)			
State Zip: TX 79701				
Phone: 432-704-5440(Tel)	PO #:			
Email	WO #:			
Project Name: Poker Lake Unit 409	Project #: 89000093			
Site:	SSOW#:			

Analysis Requested

Preservation Codes

A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Y Trizma, Z other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH	8015MOD_Calc	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035FP_Calc (MOD) BTEX	Total_BTEX_GCV	Total Number of containers	Special Instructions/Note
			Preservation Code:										
FS26 (890-3376-1)	11/3/22	12 30 Mountain		Solid			X	X	X	X	X	1	

Note Since laboratory accreditations are subject to change Eurofins Environment Testing South Central LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central LLC laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Environment Testing South Central LLC attention immediately If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central LLC.

Possible Hazard Identification: Unconfirmed	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested I II III IV Other (specify) Primary Deliverable Rank 2	Special Instructions/QC Requirements

Empty Kit Relinquished by:	Date	Time	Method of Shipment:

Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time	Company
Relinquished by:	Date/Time	Company	Received by:	Date/Time:	Company

Custody Seals Intact. Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks.

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-3376-1
SDG Number: 03E1558114

Login Number: 3376
List Number: 1
Creator: Stutzman, Amanda

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-3376-1
SDG Number: 03E1558114

Login Number: 3376
List Number: 2
Creator: Teel, Brianna

List Source: Eurofins Midland
List Creation: 11/07/22 09:10 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Tacoma Morrissey
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 2/26/2024 2:55:17 PM

JOB DESCRIPTION

Poker Lake Unit 409
03C1558114

JOB NUMBER

890-6187-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

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Job Notes

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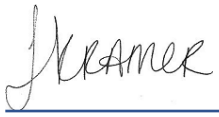
Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



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

Client: Ensolum
Project/Site: Poker Lake Unit 409

Laboratory Job ID: 890-6187-1
SDG: 03C1558114

Table of Contents

Definitions/Glossary

Client: Ensolum
Project/Site: Poker Lake Unit 409

Job ID: 890-6187-1
SDG: 03C1558114

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Definitions/Glossary

Client: Ensolum
Project/Site: Poker Lake Unit 409

Job ID: 890-6187-1
SDG: 03C1558114

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TNTC	Too Numerous To Count

Case Narrative

Client: Ensolum Job ID: 890-6187-1
Project: Poker Lake Unit 409

Job ID: 890-6187-1 Eurofins Carlsbad

Job Narrative
890-6187-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 2/14/2024 4:40 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.2°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: FS48A (890-6187-1), FS49A (890-6187-2), FS51A (890-6187-3), FS45A (890-6187-4), FS46A (890-6187-5), FS39A (890-6187-6), FS34A (890-6187-7), FS35A (890-6187-8), FS36A (890-6187-9), FS37A (890-6187-10), FS40A (890-6187-11), FS41A (890-6187-12), SW06 (890-6187-13), SW07 (890-6187-14), FS14A (890-6187-15), FS21A (890-6187-16), FS22A (890-6187-17), FS23A (890-6187-18), FS19A (890-6187-19), FS20B (890-6187-20), FS24B (890-6187-21), FS30A (890-6187-22), FS09A (890-6187-23), FS10A (890-6187-24), FS11A (890-6187-25), FS15A (890-6187-26), FS04A (890-6187-27), FS05A (890-6187-28), FS06A (890-6187-29), FS07A (890-6187-30), FS08A (890-6187-31), FS01A (890-6187-32), FS03B (890-6187-33), SW08 (890-6187-34) and SW09 (890-6187-35).

GC VOA
Method 8021B: Surrogate recovery for the following samples were outside control limits: FS49A (890-6187-2), FS51A (890-6187-3), FS45A (890-6187-4), FS46A (890-6187-5), FS39A (890-6187-6), FS34A (890-6187-7), FS36A (890-6187-9), FS37A (890-6187-10) and (890-6187-A-1-J MS). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (MB 880-73286/5-A). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following samples were outside control limits: FS40A (890-6187-11), FS41A (890-6187-12), FS14A (890-6187-15), FS22A (890-6187-17), FS23A (890-6187-18), FS19A (890-6187-19) and FS20B (890-6187-20). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-73286 and analytical batch 880-73716 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8021B: CCV failed due to instrumentation malfunction. The data has been qualified and reported since an acceptable CCV was ran within the 12 hour window.

(CCV 880-73716/20)

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-73750 and analytical batch 880-73976 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: FS07A (890-6187-30). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

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Case Narrative

Client: Ensolum Job ID: 890-6187-1
Project: Poker Lake Unit 409

Job ID: 890-6187-1 (Continued) Eurofins Carlsbad

GC Semi VOA
Method 8015MOD_NM: The method blank for preparation batch 880-73454 and analytical batch 880-73424 contained Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-73454 and analytical batch 880-73424 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: FS51A (890-6187-3), FS35A (890-6187-8), FS36A (890-6187-9), FS37A (890-6187-10) and FS22A (890-6187-17). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-73441 and analytical batch 880-73704 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (890-6186-A-21-C MS). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-73441/2-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-73441 and analytical batch 880-73704 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

HPLC/IC
Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-73323 and analytical batch 880-73451 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 409

Job ID: 890-6187-1
SDG: 03C1558114

Client Sample ID: FS48A

Date Collected: 02/13/24 12:35
Date Received: 02/14/24 16:40
Sample Depth: 4

Lab Sample ID: 890-6187-1
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/15/24 15:40	02/22/24 03:16	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/15/24 15:40	02/22/24 03:16	1
Ethylbenzene	<0.00199	U F2 F1	0.00199		mg/Kg		02/15/24 15:40	02/22/24 03:16	1
m-Xylene & p-Xylene	<0.00398	U F1	0.00398		mg/Kg		02/15/24 15:40	02/22/24 03:16	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/15/24 15:40	02/22/24 03:16	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/15/24 15:40	02/22/24 03:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*02/15/24 15:40*	*02/22/24 03:16*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*02/15/24 15:40*	*02/22/24 03:16*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/22/24 03:16	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			02/19/24 21:01	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		02/19/24 09:21	02/19/24 21:01	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/19/24 09:21	02/19/24 21:01	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/19/24 09:21	02/19/24 21:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*122*		*70 - 130*	*02/19/24 09:21*	*02/19/24 21:01*	*1*
o-Terphenyl	*102*		*70 - 130*	*02/19/24 09:21*	*02/19/24 21:01*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**147**		5.05		mg/Kg			02/19/24 15:13	1

Client Sample ID: FS49A

Date Collected: 02/13/24 12:40
Date Received: 02/14/24 16:40
Sample Depth: 4

Lab Sample ID: 890-6187-2
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		02/15/24 15:40	02/22/24 03:43	1
Toluene	<0.00198	U	0.00198		mg/Kg		02/15/24 15:40	02/22/24 03:43	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		02/15/24 15:40	02/22/24 03:43	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		02/15/24 15:40	02/22/24 03:43	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		02/15/24 15:40	02/22/24 03:43	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		02/15/24 15:40	02/22/24 03:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*02/15/24 15:40*	*02/22/24 03:43*	*1*

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Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 409

Job ID: 890-6187-1
SDG: 03C1558114

Client Sample ID: FS49A

Lab Sample ID: 890-6187-2
Matrix: Solid
Date Collected: 02/13/24 12:40
Date Received: 02/14/24 16:40
Sample Depth: 4

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*163*	*S1+*	*70 - 130*	*02/15/24 15:40*	*02/22/24 03:43*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			02/22/24 03:43	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5	mg/Kg			02/19/24 22:09	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5	mg/Kg		02/19/24 09:21	02/19/24 22:09	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5	mg/Kg		02/19/24 09:21	02/19/24 22:09	1
OII Range Organics (Over C28-C36)	<50.5	U	50.5	mg/Kg		02/19/24 09:21	02/19/24 22:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*115*		*70 - 130*	*02/19/24 09:21*	*02/19/24 22:09*	*1*
o-Terphenyl	*98*		*70 - 130*	*02/19/24 09:21*	*02/19/24 22:09*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4780**		25.2	mg/Kg			02/19/24 15:27	5

Client Sample ID: FS51A

Lab Sample ID: 890-6187-3
Matrix: Solid
Date Collected: 02/13/24 12:45
Date Received: 02/14/24 16:40
Sample Depth: 4

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		02/15/24 15:40	02/22/24 04:09	1
Toluene	<0.00202	U	0.00202	mg/Kg		02/15/24 15:40	02/22/24 04:09	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		02/15/24 15:40	02/22/24 04:09	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		02/15/24 15:40	02/22/24 04:09	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		02/15/24 15:40	02/22/24 04:09	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		02/15/24 15:40	02/22/24 04:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*127*		*70 - 130*	*02/15/24 15:40*	*02/22/24 04:09*	*1*
1,4-Difluorobenzene (Surr)	*131*	*S1+*	*70 - 130*	*02/15/24 15:40*	*02/22/24 04:09*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			02/22/24 04:09	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			02/19/24 22:31	1

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Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 409

Job ID: 890-6187-1
SDG: 03C1558114

Client Sample ID: FS51A

Lab Sample ID: 890-6187-3
Matrix: Solid
Date Collected: 02/13/24 12:45
Date Received: 02/14/24 16:40
Sample Depth: 4

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/19/24 09:21	02/19/24 22:31	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/19/24 09:21	02/19/24 22:31	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/19/24 09:21	02/19/24 22:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*141*	*S1+*	*70 - 130*	*02/19/24 09:21*	*02/19/24 22:31*	*1*
o-Terphenyl	*123*		*70 - 130*	*02/19/24 09:21*	*02/19/24 22:31*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**185**		5.02		mg/Kg			02/19/24 15:32	1

Client Sample ID: FS45A

Lab Sample ID: 890-6187-4
Matrix: Solid
Date Collected: 02/13/24 14:15
Date Received: 02/14/24 16:40
Sample Depth: 4

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		02/15/24 15:40	02/22/24 04:36	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/15/24 15:40	02/22/24 04:36	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/15/24 15:40	02/22/24 04:36	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/15/24 15:40	02/22/24 04:36	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/15/24 15:40	02/22/24 04:36	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/15/24 15:40	02/22/24 04:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*	*02/15/24 15:40*	*02/22/24 04:36*	*1*
1,4-Difluorobenzene (Surr)	*135*	*S1+*	*70 - 130*	*02/15/24 15:40*	*02/22/24 04:36*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			02/22/24 04:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			02/19/24 22:54	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		02/19/24 09:21	02/19/24 22:54	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		02/19/24 09:21	02/19/24 22:54	1
OII Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		02/19/24 09:21	02/19/24 22:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*119*		*70 - 130*	*02/19/24 09:21*	*02/19/24 22:54*	*1*
o-Terphenyl	*100*		*70 - 130*	*02/19/24 09:21*	*02/19/24 22:54*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 409

Job ID: 890-6187-1
SDG: 03C1558114

Client Sample ID: FS45A

Lab Sample ID: 890-6187-4
Matrix: Solid
Date Collected: 02/13/24 14:15
Date Received: 02/14/24 16:40
Sample Depth: 4

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	77.7		4.99		mg/Kg			02/19/24 15:36	1

Client Sample ID: FS46A

Lab Sample ID: 890-6187-5
Matrix: Solid
Date Collected: 02/13/24 14:20
Date Received: 02/14/24 16:40
Sample Depth: 4

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		02/15/24 15:40	02/22/24 05:02	1
Toluene	<0.00202	U	0.00202		mg/Kg		02/15/24 15:40	02/22/24 05:02	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		02/15/24 15:40	02/22/24 05:02	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		02/15/24 15:40	02/22/24 05:02	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		02/15/24 15:40	02/22/24 05:02	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		02/15/24 15:40	02/22/24 05:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*02/15/24 15:40*	*02/22/24 05:02*	*1*
1,4-Difluorobenzene (Surr)	*140*	*S1+*	*70 - 130*	*02/15/24 15:40*	*02/22/24 05:02*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			02/22/24 05:02	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/19/24 23:16	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/19/24 09:21	02/19/24 23:16	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/19/24 09:21	02/19/24 23:16	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/19/24 09:21	02/19/24 23:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*121*		*70 - 130*	*02/19/24 09:21*	*02/19/24 23:16*	*1*
o-Terphenyl	*100*		*70 - 130*	*02/19/24 09:21*	*02/19/24 23:16*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1040		5.00		mg/Kg			02/19/24 15:41	1

Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 409

Job ID: 890-6187-1
SDG: 03C1558114

Client Sample ID: FS39A

Date Collected: 02/13/24 14:25
Date Received: 02/14/24 16:40
Sample Depth: 4

Lab Sample ID: 890-6187-6

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		02/15/24 15:40	02/22/24 05:29	1
Toluene	<0.00198	U	0.00198		mg/Kg		02/15/24 15:40	02/22/24 05:29	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		02/15/24 15:40	02/22/24 05:29	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		02/15/24 15:40	02/22/24 05:29	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		02/15/24 15:40	02/22/24 05:29	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		02/15/24 15:40	02/22/24 05:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*69*	*S1-*	*70 - 130*	*02/15/24 15:40*	*02/22/24 05:29*	*1*
1,4-Difluorobenzene (Surr)	*142*	*S1+*	*70 - 130*	*02/15/24 15:40*	*02/22/24 05:29*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			02/22/24 05:29	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			02/19/24 23:39	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		02/19/24 09:21	02/19/24 23:39	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/19/24 09:21	02/19/24 23:39	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/19/24 09:21	02/19/24 23:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*118*		*70 - 130*	*02/19/24 09:21*	*02/19/24 23:39*	*1*
o-Terphenyl	*100*		*70 - 130*	*02/19/24 09:21*	*02/19/24 23:39*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3110**		24.9		mg/Kg			02/19/24 15:55	5

Client Sample ID: FS34A

Date Collected: 02/14/24 09:30
Date Received: 02/14/24 16:40
Sample Depth: 4

Lab Sample ID: 890-6187-7

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/15/24 15:40	02/22/24 05:56	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/15/24 15:40	02/22/24 05:56	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/15/24 15:40	02/22/24 05:56	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/15/24 15:40	02/22/24 05:56	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/15/24 15:40	02/22/24 05:56	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/15/24 15:40	02/22/24 05:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*133*	*S1+*	*70 - 130*	*02/15/24 15:40*	*02/22/24 05:56*	*1*

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Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 409

Job ID: 890-6187-1
SDG: 03C1558114

Client Sample ID: FS34A

Lab Sample ID: 890-6187-7
Matrix: Solid
Date Collected: 02/14/24 09:30
Date Received: 02/14/24 16:40
Sample Depth: 4

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*160*	*S1+*	*70 - 130*	*02/15/24 15:40*	*02/22/24 05:56*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			02/22/24 05:56	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6	mg/Kg			02/20/24 00:01	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6	mg/Kg		02/19/24 09:21	02/20/24 00:01	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6	mg/Kg		02/19/24 09:21	02/20/24 00:01	1
OII Range Organics (Over C28-C36)	<49.6	U	49.6	mg/Kg		02/19/24 09:21	02/20/24 00:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*130*		*70 - 130*	*02/19/24 09:21*	*02/20/24 00:01*	*1*
o-Terphenyl	*113*		*70 - 130*	*02/19/24 09:21*	*02/20/24 00:01*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7020**		50.3	mg/Kg			02/19/24 15:59	10

Client Sample ID: FS35A

Lab Sample ID: 890-6187-8
Matrix: Solid
Date Collected: 02/14/24 09:35
Date Received: 02/14/24 16:40
Sample Depth: 4

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		02/15/24 15:40	02/22/24 06:22	1
Toluene	<0.00199	U	0.00199	mg/Kg		02/15/24 15:40	02/22/24 06:22	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		02/15/24 15:40	02/22/24 06:22	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		02/15/24 15:40	02/22/24 06:22	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		02/15/24 15:40	02/22/24 06:22	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		02/15/24 15:40	02/22/24 06:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*02/15/24 15:40*	*02/22/24 06:22*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*02/15/24 15:40*	*02/22/24 06:22*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			02/22/24 06:22	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2	mg/Kg			02/20/24 00:23	1

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Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 409

Job ID: 890-6187-1
SDG: 03C1558114

Client Sample ID: FS35A

Lab Sample ID: 890-6187-8
Matrix: Solid
Date Collected: 02/14/24 09:35
Date Received: 02/14/24 16:40
Sample Depth: 4

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2		mg/Kg		02/19/24 09:21	02/20/24 00:23	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		02/19/24 09:21	02/20/24 00:23	1
OII Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		02/19/24 09:21	02/20/24 00:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*142*	*S1+*	*70 - 130*	*02/19/24 09:21*	*02/20/24 00:23*	*1*
o-Terphenyl	*125*		*70 - 130*	*02/19/24 09:21*	*02/20/24 00:23*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8490**		50.5		mg/Kg			02/19/24 16:04	10

Client Sample ID: FS36A

Lab Sample ID: 890-6187-9
Matrix: Solid
Date Collected: 02/14/24 09:40
Date Received: 02/14/24 16:40
Sample Depth: 4

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		02/15/24 15:40	02/22/24 06:49	1
Toluene	<0.00198	U	0.00198		mg/Kg		02/15/24 15:40	02/22/24 06:49	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		02/15/24 15:40	02/22/24 06:49	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		02/15/24 15:40	02/22/24 06:49	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		02/15/24 15:40	02/22/24 06:49	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		02/15/24 15:40	02/22/24 06:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*126*		*70 - 130*	*02/15/24 15:40*	*02/22/24 06:49*	*1*
1,4-Difluorobenzene (Surr)	*165*	*S1+*	*70 - 130*	*02/15/24 15:40*	*02/22/24 06:49*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			02/22/24 06:49	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			02/20/24 00:46	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		02/19/24 09:21	02/20/24 00:46	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		02/19/24 09:21	02/20/24 00:46	1
OII Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		02/19/24 09:21	02/20/24 00:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*135*	*S1+*	*70 - 130*	*02/19/24 09:21*	*02/20/24 00:46*	*1*
o-Terphenyl	*113*		*70 - 130*	*02/19/24 09:21*	*02/20/24 00:46*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 409

Job ID: 890-6187-1
SDG: 03C1558114

Client Sample ID: FS36A

Lab Sample ID: 890-6187-9
Matrix: Solid
Date Collected: 02/14/24 09:40
Date Received: 02/14/24 16:40
Sample Depth: 4

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5080		50.2		mg/Kg			02/19/24 16:09	10

Client Sample ID: FS37A

Lab Sample ID: 890-6187-10
Matrix: Solid
Date Collected: 02/14/24 09:45
Date Received: 02/14/24 16:40
Sample Depth: 4

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		02/15/24 15:40	02/22/24 07:15	1
Toluene	<0.00202	U	0.00202		mg/Kg		02/15/24 15:40	02/22/24 07:15	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		02/15/24 15:40	02/22/24 07:15	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		02/15/24 15:40	02/22/24 07:15	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		02/15/24 15:40	02/22/24 07:15	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		02/15/24 15:40	02/22/24 07:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*02/15/24 15:40*	*02/22/24 07:15*	*1*
1,4-Difluorobenzene (Surr)	*169*	*S1+*	*70 - 130*	*02/15/24 15:40*	*02/22/24 07:15*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			02/22/24 07:15	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			02/20/24 01:09	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		02/19/24 09:21	02/20/24 01:09	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		02/19/24 09:21	02/20/24 01:09	1
OII Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		02/19/24 09:21	02/20/24 01:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*143*	*S1+*	*70 - 130*	*02/19/24 09:21*	*02/20/24 01:09*	*1*
o-Terphenyl	*122*		*70 - 130*	*02/19/24 09:21*	*02/20/24 01:09*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7490		49.7		mg/Kg			02/19/24 16:13	10

Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 409

Job ID: 890-6187-1
SDG: 03C1558114

Client Sample ID: FS40A

Date Collected: 02/14/24 09:50
Date Received: 02/14/24 16:40
Sample Depth: 4

Lab Sample ID: 890-6187-11
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/15/24 15:40	02/22/24 09:30	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/15/24 15:40	02/22/24 09:30	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/15/24 15:40	02/22/24 09:30	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		02/15/24 15:40	02/22/24 09:30	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/15/24 15:40	02/22/24 09:30	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		02/15/24 15:40	02/22/24 09:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*02/15/24 15:40*	*02/22/24 09:30*	*1*
1,4-Difluorobenzene (Surr)	*139*	*S1+*	*70 - 130*	*02/15/24 15:40*	*02/22/24 09:30*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			02/22/24 09:30	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/20/24 01:53	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/19/24 09:21	02/20/24 01:53	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/19/24 09:21	02/20/24 01:53	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/19/24 09:21	02/20/24 01:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*116*		*70 - 130*	*02/19/24 09:21*	*02/20/24 01:53*	*1*
o-Terphenyl	*99*		*70 - 130*	*02/19/24 09:21*	*02/20/24 01:53*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2400**		25.0		mg/Kg			02/19/24 16:18	5

Client Sample ID: FS41A

Date Collected: 02/14/24 09:55
Date Received: 02/14/24 16:40
Sample Depth: 4

Lab Sample ID: 890-6187-12
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/15/24 15:40	02/22/24 09:57	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/15/24 15:40	02/22/24 09:57	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/15/24 15:40	02/22/24 09:57	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/15/24 15:40	02/22/24 09:57	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/15/24 15:40	02/22/24 09:57	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/15/24 15:40	02/22/24 09:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*02/15/24 15:40*	*02/22/24 09:57*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 409

Job ID: 890-6187-1
SDG: 03C1558114

Client Sample ID: FS41A

Lab Sample ID: 890-6187-12
Matrix: Solid
Date Collected: 02/14/24 09:55
Date Received: 02/14/24 16:40
Sample Depth: 4

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*136*	*S1+*	*70 - 130*	*02/15/24 15:40*	*02/22/24 09:57*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			02/22/24 09:57	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	mg/Kg			02/20/24 02:16	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7	mg/Kg		02/19/24 09:21	02/20/24 02:16	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	mg/Kg		02/19/24 09:21	02/20/24 02:16	1
OII Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		02/19/24 09:21	02/20/24 02:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*112*		*70 - 130*	*02/19/24 09:21*	*02/20/24 02:16*	*1*
o-Terphenyl	*96*		*70 - 130*	*02/19/24 09:21*	*02/20/24 02:16*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1740**		24.8	mg/Kg			02/19/24 16:32	5

Client Sample ID: SW06

Lab Sample ID: 890-6187-13
Matrix: Solid
Date Collected: 02/14/24 10:45
Date Received: 02/14/24 16:40
Sample Depth: 4

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		02/15/24 15:40	02/22/24 10:25	1
Toluene	<0.00199	U	0.00199	mg/Kg		02/15/24 15:40	02/22/24 10:25	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		02/15/24 15:40	02/22/24 10:25	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		02/15/24 15:40	02/22/24 10:25	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		02/15/24 15:40	02/22/24 10:25	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		02/15/24 15:40	02/22/24 10:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*02/15/24 15:40*	*02/22/24 10:25*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*02/15/24 15:40*	*02/22/24 10:25*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			02/22/24 10:25	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			02/20/24 02:38	1

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Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 409

Job ID: 890-6187-1
SDG: 03C1558114

Client Sample ID: SW06

Lab Sample ID: 890-6187-13
Matrix: Solid
Date Collected: 02/14/24 10:45
Date Received: 02/14/24 16:40
Sample Depth: 4

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/19/24 09:21	02/20/24 02:38	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/19/24 09:21	02/20/24 02:38	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/19/24 09:21	02/20/24 02:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*120*		*70 - 130*	*02/19/24 09:21*	*02/20/24 02:38*	*1*
o-Terphenyl	*100*		*70 - 130*	*02/19/24 09:21*	*02/20/24 02:38*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**110**		4.95		mg/Kg			02/19/24 16:36	1

Client Sample ID: SW07

Lab Sample ID: 890-6187-14
Matrix: Solid
Date Collected: 02/14/24 10:50
Date Received: 02/14/24 16:40
Sample Depth: 4

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/15/24 15:40	02/22/24 10:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/15/24 15:40	02/22/24 10:52	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/15/24 15:40	02/22/24 10:52	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/15/24 15:40	02/22/24 10:52	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/15/24 15:40	02/22/24 10:52	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/15/24 15:40	02/22/24 10:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*130*		*70 - 130*	*02/15/24 15:40*	*02/22/24 10:52*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*02/15/24 15:40*	*02/22/24 10:52*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			02/22/24 10:52	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			02/20/24 03:00	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		02/19/24 09:21	02/20/24 03:00	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/19/24 09:21	02/20/24 03:00	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/19/24 09:21	02/20/24 03:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*118*		*70 - 130*	*02/19/24 09:21*	*02/20/24 03:00*	*1*
o-Terphenyl	*97*		*70 - 130*	*02/19/24 09:21*	*02/20/24 03:00*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 409

Job ID: 890-6187-1
SDG: 03C1558114

Client Sample ID: SW07

Lab Sample ID: 890-6187-14
Matrix: Solid
Date Collected: 02/14/24 10:50
Date Received: 02/14/24 16:40
Sample Depth: 4

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	61.8		4.95		mg/Kg			02/19/24 16:50	1

Client Sample ID: FS14A

Lab Sample ID: 890-6187-15
Matrix: Solid
Date Collected: 02/14/24 11:25
Date Received: 02/14/24 16:40
Sample Depth: 4

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/15/24 15:40	02/22/24 11:19	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/15/24 15:40	02/22/24 11:19	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/15/24 15:40	02/22/24 11:19	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/15/24 15:40	02/22/24 11:19	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/15/24 15:40	02/22/24 11:19	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/15/24 15:40	02/22/24 11:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*02/15/24 15:40*	*02/22/24 11:19*	*1*
1,4-Difluorobenzene (Surr)	*159*	*S1+*	*70 - 130*	*02/15/24 15:40*	*02/22/24 11:19*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			02/22/24 11:19	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/20/24 03:22	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/19/24 09:21	02/20/24 03:22	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/19/24 09:21	02/20/24 03:22	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/19/24 09:21	02/20/24 03:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*116*		*70 - 130*	*02/19/24 09:21*	*02/20/24 03:22*	*1*
o-Terphenyl	*99*		*70 - 130*	*02/19/24 09:21*	*02/20/24 03:22*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2810		24.9		mg/Kg			02/19/24 16:55	5

Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 409

Job ID: 890-6187-1
SDG: 03C1558114

Client Sample ID: FS21A

Lab Sample ID: 890-6187-16
Matrix: Solid
Date Collected: 02/14/24 11:30
Date Received: 02/14/24 16:40
Sample Depth: 4

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		02/15/24 15:40	02/22/24 11:45	1
Toluene	<0.00202	U	0.00202		mg/Kg		02/15/24 15:40	02/22/24 11:45	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		02/15/24 15:40	02/22/24 11:45	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		02/15/24 15:40	02/22/24 11:45	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		02/15/24 15:40	02/22/24 11:45	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		02/15/24 15:40	02/22/24 11:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*02/15/24 15:40*	*02/22/24 11:45*	*1*
1,4-Difluorobenzene (Surr)	*70*		*70 - 130*	*02/15/24 15:40*	*02/22/24 11:45*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			02/22/24 11:45	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			02/20/24 03:45	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		02/19/24 09:21	02/20/24 03:45	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/19/24 09:21	02/20/24 03:45	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/19/24 09:21	02/20/24 03:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*115*		*70 - 130*	*02/19/24 09:21*	*02/20/24 03:45*	*1*
o-Terphenyl	*98*		*70 - 130*	*02/19/24 09:21*	*02/20/24 03:45*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**98.8**		5.01		mg/Kg			02/19/24 17:00	1

Client Sample ID: FS22A

Lab Sample ID: 890-6187-17
Matrix: Solid
Date Collected: 02/14/24 11:35
Date Received: 02/14/24 16:40
Sample Depth: 4

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		02/15/24 15:40	02/22/24 12:12	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/15/24 15:40	02/22/24 12:12	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/15/24 15:40	02/22/24 12:12	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/15/24 15:40	02/22/24 12:12	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/15/24 15:40	02/22/24 12:12	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/15/24 15:40	02/22/24 12:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*138*	*S1+*	*70 - 130*	*02/15/24 15:40*	*02/22/24 12:12*	*1*

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Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 409

Job ID: 890-6187-1
SDG: 03C1558114

Client Sample ID: FS22A

Lab Sample ID: 890-6187-17
Matrix: Solid
Date Collected: 02/14/24 11:35
Date Received: 02/14/24 16:40
Sample Depth: 4

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*161*	*S1+*	*70 - 130*	*02/15/24 15:40*	*02/22/24 12:12*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			02/22/24 12:12	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	mg/Kg			02/20/24 04:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7	mg/Kg		02/19/24 09:21	02/20/24 04:07	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	mg/Kg		02/19/24 09:21	02/20/24 04:07	1
OII Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		02/19/24 09:21	02/20/24 04:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*143*	*S1+*	*70 - 130*	*02/19/24 09:21*	*02/20/24 04:07*	*1*
o-Terphenyl	*123*		*70 - 130*	*02/19/24 09:21*	*02/20/24 04:07*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**111**		5.02	mg/Kg			02/19/24 17:04	1

Client Sample ID: FS23A

Lab Sample ID: 890-6187-18
Matrix: Solid
Date Collected: 02/14/24 11:40
Date Received: 02/14/24 16:40
Sample Depth: 4

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		02/15/24 15:40	02/22/24 12:39	1
Toluene	<0.00202	U	0.00202	mg/Kg		02/15/24 15:40	02/22/24 12:39	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		02/15/24 15:40	02/22/24 12:39	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		02/15/24 15:40	02/22/24 12:39	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		02/15/24 15:40	02/22/24 12:39	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		02/15/24 15:40	02/22/24 12:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*02/15/24 15:40*	*02/22/24 12:39*	*1*
1,4-Difluorobenzene (Surr)	*64*	*S1-*	*70 - 130*	*02/15/24 15:40*	*02/22/24 12:39*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			02/22/24 12:39	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1	mg/Kg			02/20/24 04:29	1

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Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 409

Job ID: 890-6187-1
SDG: 03C1558114

Client Sample ID: FS23A

Lab Sample ID: 890-6187-18
Matrix: Solid
Date Collected: 02/14/24 11:40
Date Received: 02/14/24 16:40
Sample Depth: 4

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		02/19/24 09:21	02/20/24 04:29	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		02/19/24 09:21	02/20/24 04:29	1
OII Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		02/19/24 09:21	02/20/24 04:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*123*		*70 - 130*	*02/19/24 09:21*	*02/20/24 04:29*	*1*
o-Terphenyl	*104*		*70 - 130*	*02/19/24 09:21*	*02/20/24 04:29*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**834**		4.99		mg/Kg			02/19/24 17:09	1

Client Sample ID: FS19A

Lab Sample ID: 890-6187-19
Matrix: Solid
Date Collected: 02/14/24 11:45
Date Received: 02/14/24 16:40
Sample Depth: 4

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/15/24 15:40	02/22/24 13:05	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/15/24 15:40	02/22/24 13:05	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/15/24 15:40	02/22/24 13:05	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/15/24 15:40	02/22/24 13:05	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/15/24 15:40	02/22/24 13:05	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/15/24 15:40	02/22/24 13:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*133*	*S1+*	*70 - 130*	*02/15/24 15:40*	*02/22/24 13:05*	*1*
1,4-Difluorobenzene (Surr)	*122*		*70 - 130*	*02/15/24 15:40*	*02/22/24 13:05*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/22/24 13:05	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**57.6**		50.4		mg/Kg			02/20/24 04:51	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		02/19/24 09:21	02/20/24 04:51	1
Diesel Range Organics (Over C10-C28)	**57.6**		50.4		mg/Kg		02/19/24 09:21	02/20/24 04:51	1
OII Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		02/19/24 09:21	02/20/24 04:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*118*		*70 - 130*	*02/19/24 09:21*	*02/20/24 04:51*	*1*
o-Terphenyl	*97*		*70 - 130*	*02/19/24 09:21*	*02/20/24 04:51*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 409

Job ID: 890-6187-1
SDG: 03C1558114

Client Sample ID: FS19A

Lab Sample ID: 890-6187-19
Matrix: Solid
Date Collected: 02/14/24 11:45
Date Received: 02/14/24 16:40
Sample Depth: 4

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**711**		4.98		mg/Kg			02/19/24 17:13	1

Client Sample ID: FS20B

Lab Sample ID: 890-6187-20
Matrix: Solid
Date Collected: 02/14/24 11:50
Date Received: 02/14/24 16:40
Sample Depth: 4

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		02/15/24 15:40	02/22/24 13:32	1
Toluene	<0.00198	U	0.00198		mg/Kg		02/15/24 15:40	02/22/24 13:32	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		02/15/24 15:40	02/22/24 13:32	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		02/15/24 15:40	02/22/24 13:32	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		02/15/24 15:40	02/22/24 13:32	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		02/15/24 15:40	02/22/24 13:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*131*	*S1+*	*70 - 130*	*02/15/24 15:40*	*02/22/24 13:32*	*1*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*	*02/15/24 15:40*	*02/22/24 13:32*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			02/22/24 13:32	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**550**		50.4		mg/Kg			02/20/24 05:14	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		02/19/24 09:21	02/20/24 05:14	1
Diesel Range Organics (Over C10-C28)	**550**		50.4		mg/Kg		02/19/24 09:21	02/20/24 05:14	1
OII Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		02/19/24 09:21	02/20/24 05:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*113*		*70 - 130*	*02/19/24 09:21*	*02/20/24 05:14*	*1*
o-Terphenyl	*93*		*70 - 130*	*02/19/24 09:21*	*02/20/24 05:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1770**		25.2		mg/Kg			02/19/24 17:18	5

Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 409

Job ID: 890-6187-1
SDG: 03C1558114

Client Sample ID: FS24B

Lab Sample ID: 890-6187-21
Matrix: Solid
Date Collected: 02/14/24 11:55
Date Received: 02/14/24 16:40
Sample Depth: 4

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U F2 F1	0.00199		mg/Kg		02/21/24 09:42	02/24/24 14:24	1
Toluene	<0.00199	U F2 F1	0.00199		mg/Kg		02/21/24 09:42	02/24/24 14:24	1
Ethylbenzene	<0.00199	U F2 F1	0.00199		mg/Kg		02/21/24 09:42	02/24/24 14:24	1
m-Xylene & p-Xylene	<0.00398	U F1	0.00398		mg/Kg		02/21/24 09:42	02/24/24 14:24	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/21/24 09:42	02/24/24 14:24	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/21/24 09:42	02/24/24 14:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*02/21/24 09:42*	*02/24/24 14:24*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*02/21/24 09:42*	*02/24/24 14:24*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/24/24 14:24	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			02/19/24 21:39	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U F1	50.1		mg/Kg		02/19/24 11:08	02/19/24 21:39	1
Diesel Range Organics (Over C10-C28)	<50.1	U F1	50.1		mg/Kg		02/19/24 11:08	02/19/24 21:39	1
OII Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		02/19/24 11:08	02/19/24 21:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*80*		*70 - 130*	*02/19/24 11:08*	*02/19/24 21:39*	*1*
o-Terphenyl	*81*		*70 - 130*	*02/19/24 11:08*	*02/19/24 21:39*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**259**		5.01		mg/Kg			02/19/24 18:37	1

Client Sample ID: FS30A

Lab Sample ID: 890-6187-22
Matrix: Solid
Date Collected: 02/14/24 12:00
Date Received: 02/14/24 16:40
Sample Depth: 4

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		02/21/24 09:42	02/24/24 14:45	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/21/24 09:42	02/24/24 14:45	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/21/24 09:42	02/24/24 14:45	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/21/24 09:42	02/24/24 14:45	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/21/24 09:42	02/24/24 14:45	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/21/24 09:42	02/24/24 14:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*02/21/24 09:42*	*02/24/24 14:45*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 409

Job ID: 890-6187-1
SDG: 03C1558114

Client Sample ID: FS30A

Lab Sample ID: 890-6187-22
Matrix: Solid
Date Collected: 02/14/24 12:00
Date Received: 02/14/24 16:40
Sample Depth: 4

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*02/21/24 09:42*	*02/24/24 14:45*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			02/24/24 14:45	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**108**		50.5	mg/Kg			02/19/24 22:47	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5	mg/Kg		02/19/24 11:08	02/19/24 22:47	1
Diesel Range Organics (Over C10-C28)	**108**		50.5	mg/Kg		02/19/24 11:08	02/19/24 22:47	1
OII Range Organics (Over C28-C36)	<50.5	U	50.5	mg/Kg		02/19/24 11:08	02/19/24 22:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*81*		*70 - 130*	*02/19/24 11:08*	*02/19/24 22:47*	*1*
o-Terphenyl	*82*		*70 - 130*	*02/19/24 11:08*	*02/19/24 22:47*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**995**		5.02	mg/Kg			02/19/24 18:42	1

Client Sample ID: FS09A

Lab Sample ID: 890-6187-23
Matrix: Solid
Date Collected: 02/14/24 12:25
Date Received: 02/14/24 16:40
Sample Depth: 4

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		02/21/24 09:42	02/24/24 15:06	1
Toluene	<0.00202	U	0.00202	mg/Kg		02/21/24 09:42	02/24/24 15:06	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		02/21/24 09:42	02/24/24 15:06	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		02/21/24 09:42	02/24/24 15:06	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		02/21/24 09:42	02/24/24 15:06	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		02/21/24 09:42	02/24/24 15:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*02/21/24 09:42*	*02/24/24 15:06*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*02/21/24 09:42*	*02/24/24 15:06*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			02/24/24 15:06	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	mg/Kg			02/19/24 23:09	1

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Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 409

Job ID: 890-6187-1
SDG: 03C1558114

Client Sample ID: FS09A

Lab Sample ID: 890-6187-23
Matrix: Solid
Date Collected: 02/14/24 12:25
Date Received: 02/14/24 16:40
Sample Depth: 4

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		02/19/24 11:08	02/19/24 23:09	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		02/19/24 11:08	02/19/24 23:09	1
OII Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		02/19/24 11:08	02/19/24 23:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 130*	*02/19/24 11:08*	*02/19/24 23:09*	*1*
o-Terphenyl	*86*		*70 - 130*	*02/19/24 11:08*	*02/19/24 23:09*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**62.9**		5.05		mg/Kg			02/19/24 18:46	1

Client Sample ID: FS10A

Lab Sample ID: 890-6187-24
Matrix: Solid
Date Collected: 02/14/24 12:30
Date Received: 02/14/24 16:40
Sample Depth: 4

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/21/24 09:42	02/24/24 15:26	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/21/24 09:42	02/24/24 15:26	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/21/24 09:42	02/24/24 15:26	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/21/24 09:42	02/24/24 15:26	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/21/24 09:42	02/24/24 15:26	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/21/24 09:42	02/24/24 15:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*130*		*70 - 130*	*02/21/24 09:42*	*02/24/24 15:26*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*02/21/24 09:42*	*02/24/24 15:26*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/24/24 15:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/19/24 23:32	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/19/24 11:08	02/19/24 23:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/19/24 11:08	02/19/24 23:32	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/19/24 11:08	02/19/24 23:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 130*	*02/19/24 11:08*	*02/19/24 23:32*	*1*
o-Terphenyl	*86*		*70 - 130*	*02/19/24 11:08*	*02/19/24 23:32*	*1*

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Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 409

Job ID: 890-6187-1
SDG: 03C1558114

Client Sample ID: FS10A

Lab Sample ID: 890-6187-24
Matrix: Solid
Date Collected: 02/14/24 12:30
Date Received: 02/14/24 16:40
Sample Depth: 4

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	69.0		5.04		mg/Kg			02/19/24 18:51	1

Client Sample ID: FS11A

Lab Sample ID: 890-6187-25
Matrix: Solid
Date Collected: 02/14/24 12:35
Date Received: 02/14/24 16:40
Sample Depth: 4

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/21/24 09:42	02/24/24 15:47	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/21/24 09:42	02/24/24 15:47	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/21/24 09:42	02/24/24 15:47	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/21/24 09:42	02/24/24 15:47	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/21/24 09:42	02/24/24 15:47	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/21/24 09:42	02/24/24 15:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*	*02/21/24 09:42*	*02/24/24 15:47*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*02/21/24 09:42*	*02/24/24 15:47*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/24/24 15:47	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			02/19/24 23:54	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		02/19/24 11:08	02/19/24 23:54	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		02/19/24 11:08	02/19/24 23:54	1
OII Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		02/19/24 11:08	02/19/24 23:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*87*		*70 - 130*	*02/19/24 11:08*	*02/19/24 23:54*	*1*
o-Terphenyl	*89*		*70 - 130*	*02/19/24 11:08*	*02/19/24 23:54*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	406		4.97		mg/Kg			02/19/24 18:55	1

Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 409

Job ID: 890-6187-1
SDG: 03C1558114

Client Sample ID: FS15A

Lab Sample ID: 890-6187-26
Matrix: Solid
Date Collected: 02/14/24 12:40
Date Received: 02/14/24 16:40
Sample Depth: 4

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		02/21/24 09:42	02/24/24 16:07	1
Toluene	<0.00198	U	0.00198		mg/Kg		02/21/24 09:42	02/24/24 16:07	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		02/21/24 09:42	02/24/24 16:07	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		02/21/24 09:42	02/24/24 16:07	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		02/21/24 09:42	02/24/24 16:07	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		02/21/24 09:42	02/24/24 16:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*128*		*70 - 130*	*02/21/24 09:42*	*02/24/24 16:07*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*02/21/24 09:42*	*02/24/24 16:07*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			02/24/24 16:07	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2		mg/Kg			02/20/24 00:16	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2		mg/Kg		02/19/24 11:08	02/20/24 00:16	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		02/19/24 11:08	02/20/24 00:16	1
OII Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		02/19/24 11:08	02/20/24 00:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 130*	*02/19/24 11:08*	*02/20/24 00:16*	*1*
o-Terphenyl	*89*		*70 - 130*	*02/19/24 11:08*	*02/20/24 00:16*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**165**	**F1**	4.99		mg/Kg			02/19/24 19:00	1

Client Sample ID: FS04A

Lab Sample ID: 890-6187-27
Matrix: Solid
Date Collected: 02/14/24 12:45
Date Received: 02/14/24 16:40
Sample Depth: 4

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		02/21/24 09:42	02/24/24 16:28	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/21/24 09:42	02/24/24 16:28	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/21/24 09:42	02/24/24 16:28	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/21/24 09:42	02/24/24 16:28	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/21/24 09:42	02/24/24 16:28	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/21/24 09:42	02/24/24 16:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*	*02/21/24 09:42*	*02/24/24 16:28*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 409

Job ID: 890-6187-1
SDG: 03C1558114

Client Sample ID: FS04A

Lab Sample ID: 890-6187-27
Matrix: Solid
Date Collected: 02/14/24 12:45
Date Received: 02/14/24 16:40
Sample Depth: 4

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*02/21/24 09:42*	*02/24/24 16:28*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			02/24/24 16:28	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3	mg/Kg			02/20/24 00:38	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3	mg/Kg		02/19/24 11:08	02/20/24 00:38	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3	mg/Kg		02/19/24 11:08	02/20/24 00:38	1
OII Range Organics (Over C28-C36)	<50.3	U	50.3	mg/Kg		02/19/24 11:08	02/20/24 00:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*90*		*70 - 130*	*02/19/24 11:08*	*02/20/24 00:38*	*1*
o-Terphenyl	*95*		*70 - 130*	*02/19/24 11:08*	*02/20/24 00:38*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**75.4**		5.03	mg/Kg			02/19/24 19:14	1

Client Sample ID: FS05A

Lab Sample ID: 890-6187-28
Matrix: Solid
Date Collected: 02/14/24 12:50
Date Received: 02/14/24 16:40
Sample Depth: 4

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		02/21/24 09:42	02/24/24 16:48	1
Toluene	<0.00202	U	0.00202	mg/Kg		02/21/24 09:42	02/24/24 16:48	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		02/21/24 09:42	02/24/24 16:48	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		02/21/24 09:42	02/24/24 16:48	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		02/21/24 09:42	02/24/24 16:48	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		02/21/24 09:42	02/24/24 16:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*127*		*70 - 130*	*02/21/24 09:42*	*02/24/24 16:48*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*02/21/24 09:42*	*02/24/24 16:48*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			02/24/24 16:48	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3	mg/Kg			02/20/24 01:01	1

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Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 409

Job ID: 890-6187-1
SDG: 03C1558114

Client Sample ID: FS05A

Lab Sample ID: 890-6187-28
Matrix: Solid
Date Collected: 02/14/24 12:50
Date Received: 02/14/24 16:40
Sample Depth: 4

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3		mg/Kg		02/19/24 11:08	02/20/24 01:01	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		02/19/24 11:08	02/20/24 01:01	1
OII Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		02/19/24 11:08	02/20/24 01:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 130*	*02/19/24 11:08*	*02/20/24 01:01*	*1*
o-Terphenyl	*89*		*70 - 130*	*02/19/24 11:08*	*02/20/24 01:01*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**119**		4.97		mg/Kg			02/19/24 19:19	1

Client Sample ID: FS06A

Lab Sample ID: 890-6187-29
Matrix: Solid
Date Collected: 02/14/24 12:55
Date Received: 02/14/24 16:40
Sample Depth: 4

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/21/24 09:42	02/24/24 17:09	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/21/24 09:42	02/24/24 17:09	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/21/24 09:42	02/24/24 17:09	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/21/24 09:42	02/24/24 17:09	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/21/24 09:42	02/24/24 17:09	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/21/24 09:42	02/24/24 17:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*02/21/24 09:42*	*02/24/24 17:09*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*02/21/24 09:42*	*02/24/24 17:09*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/24/24 17:09	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**65.2**		50.4		mg/Kg			02/20/24 01:23	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		02/19/24 11:08	02/20/24 01:23	1
Diesel Range Organics (Over C10-C28)	**65.2**		50.4		mg/Kg		02/19/24 11:08	02/20/24 01:23	1
OII Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		02/19/24 11:08	02/20/24 01:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*86*		*70 - 130*	*02/19/24 11:08*	*02/20/24 01:23*	*1*
o-Terphenyl	*90*		*70 - 130*	*02/19/24 11:08*	*02/20/24 01:23*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 409

Job ID: 890-6187-1
SDG: 03C1558114

Client Sample ID: FS06A

Lab Sample ID: 890-6187-29
Matrix: Solid
Date Collected: 02/14/24 12:55
Date Received: 02/14/24 16:40
Sample Depth: 4

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	84.4		5.02		mg/Kg			02/19/24 19:32	1

Client Sample ID: FS07A

Lab Sample ID: 890-6187-30
Matrix: Solid
Date Collected: 02/14/24 13:00
Date Received: 02/14/24 16:40
Sample Depth: 4

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		02/21/24 09:42	02/24/24 17:30	1
Toluene	<0.00198	U	0.00198		mg/Kg		02/21/24 09:42	02/24/24 17:30	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		02/21/24 09:42	02/24/24 17:30	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		02/21/24 09:42	02/24/24 17:30	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		02/21/24 09:42	02/24/24 17:30	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		02/21/24 09:42	02/24/24 17:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*137*	*S1+*	*70 - 130*	*02/21/24 09:42*	*02/24/24 17:30*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*02/21/24 09:42*	*02/24/24 17:30*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			02/24/24 17:30	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			02/20/24 01:45	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		02/19/24 11:08	02/20/24 01:45	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/19/24 11:08	02/20/24 01:45	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/19/24 11:08	02/20/24 01:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 130*	*02/19/24 11:08*	*02/20/24 01:45*	*1*
o-Terphenyl	*86*		*70 - 130*	*02/19/24 11:08*	*02/20/24 01:45*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2190		25.1		mg/Kg			02/19/24 19:37	5

Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 409

Job ID: 890-6187-1
SDG: 03C1558114

Client Sample ID: FS08A

Date Collected: 02/14/24 13:05
Date Received: 02/14/24 16:40
Sample Depth: 4

Lab Sample ID: 890-6187-31
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/21/24 09:42	02/24/24 19:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/21/24 09:42	02/24/24 19:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/21/24 09:42	02/24/24 19:20	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/21/24 09:42	02/24/24 19:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/21/24 09:42	02/24/24 19:20	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/21/24 09:42	02/24/24 19:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*02/21/24 09:42*	*02/24/24 19:20*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*02/21/24 09:42*	*02/24/24 19:20*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			02/24/24 19:20	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			02/20/24 02:30	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		02/19/24 11:08	02/20/24 02:30	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		02/19/24 11:08	02/20/24 02:30	1
OII Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		02/19/24 11:08	02/20/24 02:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 130*	*02/19/24 11:08*	*02/20/24 02:30*	*1*
o-Terphenyl	*87*		*70 - 130*	*02/19/24 11:08*	*02/20/24 02:30*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2070**		25.0		mg/Kg			02/19/24 19:42	5

Client Sample ID: FS01A

Date Collected: 02/14/24 13:50
Date Received: 02/14/24 16:40
Sample Depth: 4

Lab Sample ID: 890-6187-32
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/21/24 09:42	02/24/24 19:41	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/21/24 09:42	02/24/24 19:41	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/21/24 09:42	02/24/24 19:41	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/21/24 09:42	02/24/24 19:41	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/21/24 09:42	02/24/24 19:41	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/21/24 09:42	02/24/24 19:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*02/21/24 09:42*	*02/24/24 19:41*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 409

Job ID: 890-6187-1
SDG: 03C1558114

Client Sample ID: FS01A

Lab Sample ID: 890-6187-32
Matrix: Solid
Date Collected: 02/14/24 13:50
Date Received: 02/14/24 16:40
Sample Depth: 4

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*02/21/24 09:42*	*02/24/24 19:41*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			02/24/24 19:41	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			02/20/24 02:52	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		02/19/24 11:08	02/20/24 02:52	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		02/19/24 11:08	02/20/24 02:52	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/19/24 11:08	02/20/24 02:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*87*		*70 - 130*	*02/19/24 11:08*	*02/20/24 02:52*	*1*
o-Terphenyl	*90*		*70 - 130*	*02/19/24 11:08*	*02/20/24 02:52*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**125**		5.03	mg/Kg			02/19/24 19:46	1

Client Sample ID: FS03B

Lab Sample ID: 890-6187-33
Matrix: Solid
Date Collected: 02/14/24 14:00
Date Received: 02/14/24 16:40
Sample Depth: 4

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		02/21/24 09:42	02/24/24 20:01	1
Toluene	<0.00201	U	0.00201	mg/Kg		02/21/24 09:42	02/24/24 20:01	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		02/21/24 09:42	02/24/24 20:01	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		02/21/24 09:42	02/24/24 20:01	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		02/21/24 09:42	02/24/24 20:01	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		02/21/24 09:42	02/24/24 20:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*02/21/24 09:42*	*02/24/24 20:01*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*02/21/24 09:42*	*02/24/24 20:01*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			02/24/24 20:01	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4	mg/Kg			02/20/24 03:14	1

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Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 409

Job ID: 890-6187-1
SDG: 03C1558114

Client Sample ID: FS03B

Lab Sample ID: 890-6187-33
Matrix: Solid
Date Collected: 02/14/24 14:00
Date Received: 02/14/24 16:40
Sample Depth: 4

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		02/19/24 11:08	02/20/24 03:14	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		02/19/24 11:08	02/20/24 03:14	1
OII Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		02/19/24 11:08	02/20/24 03:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*02/19/24 11:08*	*02/20/24 03:14*	*1*
o-Terphenyl	*95*		*70 - 130*	*02/19/24 11:08*	*02/20/24 03:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**94.8**		4.98		mg/Kg			02/19/24 19:51	1

Client Sample ID: SW08

Lab Sample ID: 890-6187-34
Matrix: Solid
Date Collected: 02/14/24 14:00
Date Received: 02/14/24 16:40
Sample Depth: 4

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		02/21/24 09:42	02/24/24 20:22	1
Toluene	<0.00202	U	0.00202		mg/Kg		02/21/24 09:42	02/24/24 20:22	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		02/21/24 09:42	02/24/24 20:22	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		02/21/24 09:42	02/24/24 20:22	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		02/21/24 09:42	02/24/24 20:22	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		02/21/24 09:42	02/24/24 20:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*02/21/24 09:42*	*02/24/24 20:22*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*02/21/24 09:42*	*02/24/24 20:22*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			02/24/24 20:22	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2		mg/Kg			02/20/24 03:37	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2		mg/Kg		02/19/24 11:08	02/20/24 03:37	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		02/19/24 11:08	02/20/24 03:37	1
OII Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		02/19/24 11:08	02/20/24 03:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*82*		*70 - 130*	*02/19/24 11:08*	*02/20/24 03:37*	*1*
o-Terphenyl	*84*		*70 - 130*	*02/19/24 11:08*	*02/20/24 03:37*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 409

Job ID: 890-6187-1
SDG: 03C1558114

Client Sample ID: SW08

Lab Sample ID: 890-6187-34
Matrix: Solid
Date Collected: 02/14/24 14:00
Date Received: 02/14/24 16:40
Sample Depth: 4

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	83.7		4.95		mg/Kg			02/19/24 19:56	1

Client Sample ID: SW09

Lab Sample ID: 890-6187-35
Matrix: Solid
Date Collected: 02/14/24 14:00
Date Received: 02/14/24 16:40
Sample Depth: 4

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		02/21/24 09:42	02/24/24 20:42	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/21/24 09:42	02/24/24 20:42	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/21/24 09:42	02/24/24 20:42	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/21/24 09:42	02/24/24 20:42	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/21/24 09:42	02/24/24 20:42	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/21/24 09:42	02/24/24 20:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*	*02/21/24 09:42*	*02/24/24 20:42*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*02/21/24 09:42*	*02/24/24 20:42*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			02/24/24 20:42	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			02/22/24 05:59	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3		mg/Kg		02/19/24 09:13	02/22/24 05:59	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		02/19/24 09:13	02/22/24 05:59	1
OII Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		02/19/24 09:13	02/22/24 05:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 130*	*02/19/24 09:13*	*02/22/24 05:59*	*1*
o-Terphenyl	*79*		*70 - 130*	*02/19/24 09:13*	*02/22/24 05:59*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	44.7		5.01		mg/Kg			02/19/24 20:00	1

Surrogate Summary

Client: Ensolum
Project/Site: Poker Lake Unit 409

Job ID: 890-6187-1
SDG: 03C1558114

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-6187-1	FS48A	92	95
890-6187-1 MS	FS48A	150 S1+	134 S1+
890-6187-1 MSD	FS48A	111	128
890-6187-2	FS49A	107	163 S1+
890-6187-3	FS51A	127	131 S1+
890-6187-4	FS45A	125	135 S1+
890-6187-5	FS46A	101	140 S1+
890-6187-6	FS39A	69 S1-	142 S1+
890-6187-7	FS34A	133 S1+	160 S1+
890-6187-8	FS35A	113	95
890-6187-9	FS36A	126	165 S1+
890-6187-10	FS37A	95	169 S1+
890-6187-11	FS40A	103	139 S1+
890-6187-12	FS41A	111	136 S1+
890-6187-13	SW06	108	90
890-6187-14	SW07	130	107
890-6187-15	FS14A	105	159 S1+
890-6187-16	FS21A	94	70
890-6187-17	FS22A	138 S1+	161 S1+
890-6187-18	FS23A	104	64 S1-
890-6187-19	FS19A	133 S1+	122
890-6187-20	FS20B	131 S1+	114
890-6187-21	FS24B	101	108
890-6187-21 MS	FS24B	344 S1+	89
890-6187-21 MSD	FS24B	107	98
890-6187-22	FS30A	118	106
890-6187-23	FS09A	113	108
890-6187-24	FS10A	130	96
890-6187-25	FS11A	122	100
890-6187-26	FS15A	128	107
890-6187-27	FS04A	125	102
890-6187-28	FS05A	127	99
890-6187-29	FS06A	115	109
890-6187-30	FS07A	137 S1+	104
890-6187-31	FS08A	97	102
890-6187-32	FS01A	118	109
890-6187-33	FS03B	109	109
890-6187-34	SW08	114	111
890-6187-35	SW09	124	108
LCS 880-73286/1-A	Lab Control Sample	115	89
LCS 880-73750/1-A	Lab Control Sample	96	100
LCSD 880-73286/2-A	Lab Control Sample Dup	95	103
LCSD 880-73750/2-A	Lab Control Sample Dup	106	101
MB 880-73283/5-A	Method Blank	76	117
MB 880-73286/5-A	Method Blank	61 S1-	135 S1+
MB 880-73750/5-A	Method Blank	129	116

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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Surrogate Summary

Client: Ensolum
Project/Site: Poker Lake Unit 409

Job ID: 890-6187-1
SDG: 03C1558114

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)										
890-6186-A-21-C MS	Matrix Spike	81	62 S1-										
890-6186-A-21-D MSD	Matrix Spike Duplicate	105	83										
890-6187-1	FS48A	122	102										
890-6187-1 MS	FS48A	121	91										
890-6187-1 MSD	FS48A	115	88										
890-6187-2	FS49A	115	98										
890-6187-3	FS51A	141 S1+	123										
890-6187-4	FS45A	119	100										
890-6187-5	FS46A	121	100										
890-6187-6	FS39A	118	100										
890-6187-7	FS34A	130	113										
890-6187-8	FS35A	142 S1+	125										
890-6187-9	FS36A	135 S1+	113										
890-6187-10	FS37A	143 S1+	122										
890-6187-11	FS40A	116	99										
890-6187-12	FS41A	112	96										
890-6187-13	SW06	120	100										
890-6187-14	SW07	118	97										
890-6187-15	FS14A	116	99										
890-6187-16	FS21A	115	98										
890-6187-17	FS22A	143 S1+	123										
890-6187-18	FS23A	123	104										
890-6187-19	FS19A	118	97										
890-6187-20	FS20B	113	93										
890-6187-21	FS24B	80	81										
890-6187-21 MS	FS24B	75	72										
890-6187-21 MSD	FS24B	77	74										
890-6187-22	FS30A	81	82										
890-6187-23	FS09A	84	86										
890-6187-24	FS10A	84	86										
890-6187-25	FS11A	87	89										
890-6187-26	FS15A	85	89										
890-6187-27	FS04A	90	95										
890-6187-28	FS05A	84	89										
890-6187-29	FS06A	86	90										
890-6187-30	FS07A	84	86										
890-6187-31	FS08A	84	87										
890-6187-32	FS01A	87	90										
890-6187-33	FS03B	90	95										
890-6187-34	SW08	82	84										
890-6187-35	SW09	102	79										
LCS 880-73441/2-A	Lab Control Sample	131 S1+	134 S1+										
LCS 880-73443/2-A	Lab Control Sample	130	120										
LCS 880-73454/2-A	Lab Control Sample	94	105										
LCSD 880-73441/3-A	Lab Control Sample Dup	128	119										
LCSD 880-73443/3-A	Lab Control Sample Dup	128	115										
LCSD 880-73454/3-A	Lab Control Sample Dup	83	97										
MB 880-73441/1-A	Method Blank	158 S1+	136 S1+										
MB 880-73443/1-A	Method Blank	128	111										

Surrogate Summary

Client: Ensolum Job ID: 890-6187-1
Project/Site: Poker Lake Unit 409 SDG: 03C1558114

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		1CO1	OTPH1								
Lab Sample ID	Client Sample ID	(70-130)	(70-130)								
MB 880-73454/1-A	Method Blank	90	96								

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 409

Job ID: 890-6187-1
SDG: 03C1558114

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-73283/5-A
Matrix: Solid
Analysis Batch: 73716

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 73283

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/15/24 15:23	02/21/24 12:45	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/15/24 15:23	02/21/24 12:45	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/15/24 15:23	02/21/24 12:45	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/15/24 15:23	02/21/24 12:45	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/15/24 15:23	02/21/24 12:45	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/15/24 15:23	02/21/24 12:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*76*		*70 - 130*	*02/15/24 15:23*	*02/21/24 12:45*	*1*
1,4-Difluorobenzene (Surr)	*117*		*70 - 130*	*02/15/24 15:23*	*02/21/24 12:45*	*1*

Lab Sample ID: MB 880-73286/5-A
Matrix: Solid
Analysis Batch: 73716

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 73286

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/15/24 15:40	02/22/24 02:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/15/24 15:40	02/22/24 02:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/15/24 15:40	02/22/24 02:49	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/15/24 15:40	02/22/24 02:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/15/24 15:40	02/22/24 02:49	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/15/24 15:40	02/22/24 02:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*61*	*S1-*	*70 - 130*	*02/15/24 15:40*	*02/22/24 02:49*	*1*
1,4-Difluorobenzene (Surr)	*135*	*S1+*	*70 - 130*	*02/15/24 15:40*	*02/22/24 02:49*	*1*

Lab Sample ID: LCS 880-73286/1-A
Matrix: Solid
Analysis Batch: 73716

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 73286

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1232		mg/Kg		123	70 - 130		
Toluene			0.100	0.1062		mg/Kg		106	70 - 130		
Ethylbenzene			0.100	0.1185		mg/Kg		119	70 - 130		
m-Xylene & p-Xylene			0.200	0.2359		mg/Kg		118	70 - 130		
o-Xylene			0.100	0.1161		mg/Kg		116	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*

Lab Sample ID: LCSD 880-73286/2-A
Matrix: Solid
Analysis Batch: 73716

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 73286

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1120		mg/Kg		112	70 - 130	10	35

QC Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 409

Job ID: 890-6187-1
SDG: 03C1558114

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

Lab Sample ID: LCSD 880-73286/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 73716 — **Prep Batch: 73286**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.08789		mg/Kg		88	70 - 130	19	35
Ethylbenzene			0.100	0.1015		mg/Kg		101	70 - 130	16	35
m-Xylene & p-Xylene			0.200	0.2027		mg/Kg		101	70 - 130	15	35
o-Xylene			0.100	0.09230		mg/Kg		92	70 - 130	23	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: 890-6187-1 MS — **Client Sample ID: FS48A**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 73716 — **Prep Batch: 73286**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.100	0.1196		mg/Kg		119	70 - 130
Toluene	<0.00199	U	0.100	0.09545		mg/Kg		95	70 - 130
Ethylbenzene	<0.00199	U F2 F1	0.100	0.1379	F1	mg/Kg		138	70 - 130
m-Xylene & p-Xylene	<0.00398	U F1	0.200	0.1291	F1	mg/Kg		64	70 - 130
o-Xylene	<0.00199	U	0.100	0.1204		mg/Kg		120	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*150*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*134*	*S1+*	*70 - 130*

Lab Sample ID: 890-6187-1 MSD — **Client Sample ID: FS48A**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 73716 — **Prep Batch: 73286**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.101	0.1124		mg/Kg		112	70 - 130	6	35
Toluene	<0.00199	U	0.101	0.09695		mg/Kg		96	70 - 130	2	35
Ethylbenzene	<0.00199	U F2 F1	0.101	0.08748	F2	mg/Kg		87	70 - 130	45	35
m-Xylene & p-Xylene	<0.00398	U F1	0.201	0.1200	F1	mg/Kg		60	70 - 130	7	35
o-Xylene	<0.00199	U	0.101	0.1001		mg/Kg		100	70 - 130	18	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*
1,4-Difluorobenzene (Surr)	*128*		*70 - 130*

Lab Sample ID: MB 880-73750/5-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 73976 — **Prep Batch: 73750**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/21/24 09:42	02/24/24 13:56	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/21/24 09:42	02/24/24 13:56	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/21/24 09:42	02/24/24 13:56	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/21/24 09:42	02/24/24 13:56	1

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QC Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 409

Job ID: 890-6187-1
SDG: 03C1558114

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

Lab Sample ID: MB 880-73750/5-A
Matrix: Solid
Analysis Batch: 73976

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 73750

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/21/24 09:42	02/24/24 13:56	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/21/24 09:42	02/24/24 13:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*129*		*70 - 130*	*02/21/24 09:42*	*02/24/24 13:56*	*1*
1,4-Difluorobenzene (Surr)	*116*		*70 - 130*	*02/21/24 09:42*	*02/24/24 13:56*	*1*

Lab Sample ID: LCS 880-73750/1-A
Matrix: Solid
Analysis Batch: 73976

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 73750

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1076		mg/Kg		108	70 - 130		
Toluene			0.100	0.09771		mg/Kg		98	70 - 130		
Ethylbenzene			0.100	0.09400		mg/Kg		94	70 - 130		
m-Xylene & p-Xylene			0.200	0.1943		mg/Kg		97	70 - 130		
o-Xylene			0.100	0.09821		mg/Kg		98	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 880-73750/2-A
Matrix: Solid
Analysis Batch: 73976

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 73750

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1194		mg/Kg		119	70 - 130	10	35
Toluene			0.100	0.09975		mg/Kg		100	70 - 130	2	35
Ethylbenzene			0.100	0.1009		mg/Kg		101	70 - 130	7	35
m-Xylene & p-Xylene			0.200	0.1829		mg/Kg		91	70 - 130	6	35
o-Xylene			0.100	0.1045		mg/Kg		104	70 - 130	6	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: 890-6187-21 MS
Matrix: Solid
Analysis Batch: 73976

Client Sample ID: FS24B
Prep Type: Total/NA
Prep Batch: 73750

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00199	U F2 F1	0.101	0.01880	F1	mg/Kg		19	70 - 130		
Toluene	<0.00199	U F2 F1	0.101	0.01665	F1	mg/Kg		17	70 - 130		
Ethylbenzene	<0.00199	U F2 F1	0.101	0.02002	F1	mg/Kg		20	70 - 130		
m-Xylene & p-Xylene	<0.00398	U F1	0.202	0.1227	F1	mg/Kg		61	70 - 130		
o-Xylene	<0.00199	U	0.101	0.08814		mg/Kg		87	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 409

Job ID: 890-6187-1
SDG: 03C1558114

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

Lab Sample ID: 890-6187-21 MS
Matrix: Solid
Analysis Batch: 73976

Client Sample ID: FS24B
Prep Type: Total/NA
Prep Batch: 73750

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	*344*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*

Lab Sample ID: 890-6187-21 MSD
Matrix: Solid
Analysis Batch: 73976

Client Sample ID: FS24B
Prep Type: Total/NA
Prep Batch: 73750

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U F2 F1	0.100	0.09990	F2	mg/Kg		100	70 - 130	137	35
Toluene	<0.00199	U F2 F1	0.100	0.08729	F2	mg/Kg		87	70 - 130	136	35
Ethylbenzene	<0.00199	U F2 F1	0.100	0.07326	F2	mg/Kg		73	70 - 130	114	35
m-Xylene & p-Xylene	<0.00398	U F1	0.200	0.1652		mg/Kg		83	70 - 130	30	35
o-Xylene	<0.00199	U	0.100	0.08514		mg/Kg		84	70 - 130	3	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

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

Lab Sample ID: MB 880-73441/1-A
Matrix: Solid
Analysis Batch: 73704

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 73441

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/19/24 09:13	02/21/24 20:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/19/24 09:13	02/21/24 20:15	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/19/24 09:13	02/21/24 20:15	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*158*	*S1+*	*70 - 130*	*02/19/24 09:13*	*02/21/24 20:15*	*1*
o-Terphenyl	*136*	*S1+*	*70 - 130*	*02/19/24 09:13*	*02/21/24 20:15*	*1*

Lab Sample ID: LCS 880-73441/2-A
Matrix: Solid
Analysis Batch: 73704

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 73441

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1050		mg/Kg		105	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1104		mg/Kg		110	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	*131*	*S1+*	*70 - 130*
o-Terphenyl	*134*	*S1+*	*70 - 130*

QC Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 409

Job ID: 890-6187-1
SDG: 03C1558114

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

Lab Sample ID: LCSD 880-73441/3-A
Matrix: Solid
Analysis Batch: 73704

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 73441

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	955.3		mg/Kg		96	70 - 130	9	20
Diesel Range Organics (Over C10-C28)			1000	1081		mg/Kg		108	70 - 130	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*128*		*70 - 130*
o-Terphenyl	*119*		*70 - 130*

Lab Sample ID: 890-6186-A-21-C MS
Matrix: Solid
Analysis Batch: 73704

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 73441

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.6	U F2	1010	882.4		mg/Kg		84	70 - 130
Diesel Range Organics (Over C10-C28)	<49.6	U F1 F2	1010	645.5	F1	mg/Kg		62	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*81*		*70 - 130*
o-Terphenyl	*62*	*S1-*	*70 - 130*

Lab Sample ID: 890-6186-A-21-D MSD
Matrix: Solid
Analysis Batch: 73704

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 73441

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.6	U F2	1010	1119	F2	mg/Kg		108	70 - 130	24	20
Diesel Range Organics (Over C10-C28)	<49.6	U F1 F2	1010	855.7	F2	mg/Kg		83	70 - 130	28	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*105*		*70 - 130*
o-Terphenyl	*83*		*70 - 130*

Lab Sample ID: MB 880-73443/1-A
Matrix: Solid
Analysis Batch: 73420

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 73443

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/19/24 09:21	02/19/24 19:53	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/19/24 09:21	02/19/24 19:53	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/19/24 09:21	02/19/24 19:53	1

QC Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 409

Job ID: 890-6187-1
SDG: 03C1558114

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

Lab Sample ID: MB 880-73443/1-A
Matrix: Solid
Analysis Batch: 73420

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 73443

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	128		70 - 130	02/19/24 09:21	02/19/24 19:53	1
o-Terphenyl	111		70 - 130	02/19/24 09:21	02/19/24 19:53	1

Lab Sample ID: LCS 880-73443/2-A
Matrix: Solid
Analysis Batch: 73420

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 73443

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1097		mg/Kg		110	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1118		mg/Kg		112	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	130		70 - 130
o-Terphenyl	120		70 - 130

Lab Sample ID: LCSD 880-73443/3-A
Matrix: Solid
Analysis Batch: 73420

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 73443

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1078		mg/Kg		108	70 - 130	2	20
Diesel Range Organics (Over C10-C28)			1000	1087		mg/Kg		109	70 - 130	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	128		70 - 130
o-Terphenyl	115		70 - 130

Lab Sample ID: 890-6187-1 MS
Matrix: Solid
Analysis Batch: 73420

Client Sample ID: FS48A
Prep Type: Total/NA
Prep Batch: 73443

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	1010	1293		mg/Kg		125	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.8	U	1010	995.1		mg/Kg		96	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	121		70 - 130
o-Terphenyl	91		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 409

Job ID: 890-6187-1
SDG: 03C1558114

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

Lab Sample ID: 890-6187-1 MSD
Matrix: Solid
Analysis Batch: 73420

Client Sample ID: FS48A
Prep Type: Total/NA
Prep Batch: 73443

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	1010	1287		mg/Kg		124	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<49.8	U	1010	950.9		mg/Kg		92	70 - 130	5	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*115*		*70 - 130*
o-Terphenyl	*88*		*70 - 130*

Lab Sample ID: MB 880-73454/1-A
Matrix: Solid
Analysis Batch: 73424

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 73454

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/19/24 11:08	02/19/24 20:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/19/24 11:08	02/19/24 20:31	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/19/24 11:08	02/19/24 20:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*02/19/24 11:08*	*02/19/24 20:31*	*1*
o-Terphenyl	*96*		*70 - 130*	*02/19/24 11:08*	*02/19/24 20:31*	*1*

Lab Sample ID: LCS 880-73454/2-A
Matrix: Solid
Analysis Batch: 73424

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 73454

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	959.4		mg/Kg		96	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	942.5		mg/Kg		94	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*94*		*70 - 130*
o-Terphenyl	*105*		*70 - 130*

Lab Sample ID: LCSD 880-73454/3-A
Matrix: Solid
Analysis Batch: 73424

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 73454

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	925.9		mg/Kg		93	70 - 130	4	20
Diesel Range Organics (Over C10-C28)			1000	932.1		mg/Kg		93	70 - 130	1	20

QC Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 409

Job ID: 890-6187-1
SDG: 03C1558114

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

Lab Sample ID: LCSD 880-73454/3-A
Matrix: Solid
Analysis Batch: 73424

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 73454

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	83		70 - 130
o-Terphenyl	97		70 - 130

Lab Sample ID: 890-6187-21 MS
Matrix: Solid
Analysis Batch: 73424

Client Sample ID: FS24B
Prep Type: Total/NA
Prep Batch: 73454

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.1	U F1	1010	681.8	F1	mg/Kg		64	70 - 130
Diesel Range Organics (Over C10-C28)	<50.1	U F1	1010	686.2	F1	mg/Kg		65	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	75		70 - 130
o-Terphenyl	72		70 - 130

Lab Sample ID: 890-6187-21 MSD
Matrix: Solid
Analysis Batch: 73424

Client Sample ID: FS24B
Prep Type: Total/NA
Prep Batch: 73454

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.1	U F1	1010	697.8	F1	mg/Kg		65	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<50.1	U F1	1010	715.8	F1	mg/Kg		68	70 - 130	4	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	77		70 - 130
o-Terphenyl	74		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-73322/1-A
Matrix: Solid
Analysis Batch: 73450

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			02/19/24 14:59	1

Lab Sample ID: LCS 880-73322/2-A
Matrix: Solid
Analysis Batch: 73450

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride			250	244.5		mg/Kg		98	90 - 110

QC Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 409

Job ID: 890-6187-1
SDG: 03C1558114

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-73322/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 73450

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	244.9		mg/Kg		98	90 - 110	0	20

Lab Sample ID: 890-6187-1 MS — **Client Sample ID: FS48A**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 73450

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	147		253	393.7		mg/Kg		97	90 - 110

Lab Sample ID: 890-6187-1 MSD — **Client Sample ID: FS48A**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 73450

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	147		253	394.9		mg/Kg		98	90 - 110	0	20

Lab Sample ID: 890-6187-11 MS — **Client Sample ID: FS40A**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 73450

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	2400		1250	3630		mg/Kg		99	90 - 110

Lab Sample ID: 890-6187-11 MSD — **Client Sample ID: FS40A**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 73450

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	2400		1250	3647		mg/Kg		100	90 - 110	0	20

Lab Sample ID: MB 880-73323/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 73451

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			02/19/24 17:41	1

Lab Sample ID: LCS 880-73323/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 73451

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride			250	244.1		mg/Kg		98	90 - 110

Lab Sample ID: LCSD 880-73323/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 73451

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	245.0		mg/Kg		98	90 - 110	0	20

QC Sample Results

Client: Ensolum
Project/Site: Poker Lake Unit 409

Job ID: 890-6187-1
SDG: 03C1558114

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-6187-26 MS
Matrix: Solid
Analysis Batch: 73451

Client Sample ID: FS15A
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	165	F1	250	363.0	F1	mg/Kg		79	90 - 110		

Lab Sample ID: 890-6187-26 MSD
Matrix: Solid
Analysis Batch: 73451

Client Sample ID: FS15A
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	165	F1	250	364.0	F1	mg/Kg		80	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: Poker Lake Unit 409

Job ID: 890-6187-1
SDG: 03C1558114

GC VOA

Prep Batch: 73283

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-73283/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 73286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6187-1	FS48A	Total/NA	Solid	5035	
890-6187-2	FS49A	Total/NA	Solid	5035	
890-6187-3	FS51A	Total/NA	Solid	5035	
890-6187-4	FS45A	Total/NA	Solid	5035	
890-6187-5	FS46A	Total/NA	Solid	5035	
890-6187-6	FS39A	Total/NA	Solid	5035	
890-6187-7	FS34A	Total/NA	Solid	5035	
890-6187-8	FS35A	Total/NA	Solid	5035	
890-6187-9	FS36A	Total/NA	Solid	5035	
890-6187-10	FS37A	Total/NA	Solid	5035	
890-6187-11	FS40A	Total/NA	Solid	5035	
890-6187-12	FS41A	Total/NA	Solid	5035	
890-6187-13	SW06	Total/NA	Solid	5035	
890-6187-14	SW07	Total/NA	Solid	5035	
890-6187-15	FS14A	Total/NA	Solid	5035	
890-6187-16	FS21A	Total/NA	Solid	5035	
890-6187-17	FS22A	Total/NA	Solid	5035	
890-6187-18	FS23A	Total/NA	Solid	5035	
890-6187-19	FS19A	Total/NA	Solid	5035	
890-6187-20	FS20B	Total/NA	Solid	5035	
MB 880-73286/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-73286/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-73286/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-6187-1 MS	FS48A	Total/NA	Solid	5035	
890-6187-1 MSD	FS48A	Total/NA	Solid	5035	

Analysis Batch: 73716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6187-1	FS48A	Total/NA	Solid	8021B	73286
890-6187-2	FS49A	Total/NA	Solid	8021B	73286
890-6187-3	FS51A	Total/NA	Solid	8021B	73286
890-6187-4	FS45A	Total/NA	Solid	8021B	73286
890-6187-5	FS46A	Total/NA	Solid	8021B	73286
890-6187-6	FS39A	Total/NA	Solid	8021B	73286
890-6187-7	FS34A	Total/NA	Solid	8021B	73286
890-6187-8	FS35A	Total/NA	Solid	8021B	73286
890-6187-9	FS36A	Total/NA	Solid	8021B	73286
890-6187-10	FS37A	Total/NA	Solid	8021B	73286
890-6187-11	FS40A	Total/NA	Solid	8021B	73286
890-6187-12	FS41A	Total/NA	Solid	8021B	73286
890-6187-13	SW06	Total/NA	Solid	8021B	73286
890-6187-14	SW07	Total/NA	Solid	8021B	73286
890-6187-15	FS14A	Total/NA	Solid	8021B	73286
890-6187-16	FS21A	Total/NA	Solid	8021B	73286
890-6187-17	FS22A	Total/NA	Solid	8021B	73286
890-6187-18	FS23A	Total/NA	Solid	8021B	73286
890-6187-19	FS19A	Total/NA	Solid	8021B	73286

QC Association Summary

Client: Ensolum
Project/Site: Poker Lake Unit 409

Job ID: 890-6187-1
SDG: 03C1558114

GC VOA (Continued)

Analysis Batch: 73716 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6187-20	FS20B	Total/NA	Solid	8021B	73286
MB 880-73283/5-A	Method Blank	Total/NA	Solid	8021B	73283
MB 880-73286/5-A	Method Blank	Total/NA	Solid	8021B	73286
LCS 880-73286/1-A	Lab Control Sample	Total/NA	Solid	8021B	73286
LCSD 880-73286/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	73286
890-6187-1 MS	FS48A	Total/NA	Solid	8021B	73286
890-6187-1 MSD	FS48A	Total/NA	Solid	8021B	73286

Prep Batch: 73750

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6187-21	FS24B	Total/NA	Solid	5035	
890-6187-22	FS30A	Total/NA	Solid	5035	
890-6187-23	FS09A	Total/NA	Solid	5035	
890-6187-24	FS10A	Total/NA	Solid	5035	
890-6187-25	FS11A	Total/NA	Solid	5035	
890-6187-26	FS15A	Total/NA	Solid	5035	
890-6187-27	FS04A	Total/NA	Solid	5035	
890-6187-28	FS05A	Total/NA	Solid	5035	
890-6187-29	FS06A	Total/NA	Solid	5035	
890-6187-30	FS07A	Total/NA	Solid	5035	
890-6187-31	FS08A	Total/NA	Solid	5035	
890-6187-32	FS01A	Total/NA	Solid	5035	
890-6187-33	FS03B	Total/NA	Solid	5035	
890-6187-34	SW08	Total/NA	Solid	5035	
890-6187-35	SW09	Total/NA	Solid	5035	
MB 880-73750/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-73750/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-73750/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-6187-21 MS	FS24B	Total/NA	Solid	5035	
890-6187-21 MSD	FS24B	Total/NA	Solid	5035	

Analysis Batch: 73884

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6187-1	FS48A	Total/NA	Solid	Total BTEX	
890-6187-2	FS49A	Total/NA	Solid	Total BTEX	
890-6187-3	FS51A	Total/NA	Solid	Total BTEX	
890-6187-4	FS45A	Total/NA	Solid	Total BTEX	
890-6187-5	FS46A	Total/NA	Solid	Total BTEX	
890-6187-6	FS39A	Total/NA	Solid	Total BTEX	
890-6187-7	FS34A	Total/NA	Solid	Total BTEX	
890-6187-8	FS35A	Total/NA	Solid	Total BTEX	
890-6187-9	FS36A	Total/NA	Solid	Total BTEX	
890-6187-10	FS37A	Total/NA	Solid	Total BTEX	
890-6187-11	FS40A	Total/NA	Solid	Total BTEX	
890-6187-12	FS41A	Total/NA	Solid	Total BTEX	
890-6187-13	SW06	Total/NA	Solid	Total BTEX	
890-6187-14	SW07	Total/NA	Solid	Total BTEX	
890-6187-15	FS14A	Total/NA	Solid	Total BTEX	
890-6187-16	FS21A	Total/NA	Solid	Total BTEX	
890-6187-17	FS22A	Total/NA	Solid	Total BTEX	
890-6187-18	FS23A	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Ensolum
Project/Site: Poker Lake Unit 409

Job ID: 890-6187-1
SDG: 03C1558114

GC VOA (Continued)

Analysis Batch: 73884 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6187-19	FS19A	Total/NA	Solid	Total BTEX	
890-6187-20	FS20B	Total/NA	Solid	Total BTEX	
890-6187-21	FS24B	Total/NA	Solid	Total BTEX	
890-6187-22	FS30A	Total/NA	Solid	Total BTEX	
890-6187-23	FS09A	Total/NA	Solid	Total BTEX	
890-6187-24	FS10A	Total/NA	Solid	Total BTEX	
890-6187-25	FS11A	Total/NA	Solid	Total BTEX	
890-6187-26	FS15A	Total/NA	Solid	Total BTEX	
890-6187-27	FS04A	Total/NA	Solid	Total BTEX	
890-6187-28	FS05A	Total/NA	Solid	Total BTEX	
890-6187-29	FS06A	Total/NA	Solid	Total BTEX	
890-6187-30	FS07A	Total/NA	Solid	Total BTEX	
890-6187-31	FS08A	Total/NA	Solid	Total BTEX	
890-6187-32	FS01A	Total/NA	Solid	Total BTEX	
890-6187-33	FS03B	Total/NA	Solid	Total BTEX	
890-6187-34	SW08	Total/NA	Solid	Total BTEX	
890-6187-35	SW09	Total/NA	Solid	Total BTEX	

Analysis Batch: 73976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6187-21	FS24B	Total/NA	Solid	8021B	73750
890-6187-22	FS30A	Total/NA	Solid	8021B	73750
890-6187-23	FS09A	Total/NA	Solid	8021B	73750
890-6187-24	FS10A	Total/NA	Solid	8021B	73750
890-6187-25	FS11A	Total/NA	Solid	8021B	73750
890-6187-26	FS15A	Total/NA	Solid	8021B	73750
890-6187-27	FS04A	Total/NA	Solid	8021B	73750
890-6187-28	FS05A	Total/NA	Solid	8021B	73750
890-6187-29	FS06A	Total/NA	Solid	8021B	73750
890-6187-30	FS07A	Total/NA	Solid	8021B	73750
890-6187-31	FS08A	Total/NA	Solid	8021B	73750
890-6187-32	FS01A	Total/NA	Solid	8021B	73750
890-6187-33	FS03B	Total/NA	Solid	8021B	73750
890-6187-34	SW08	Total/NA	Solid	8021B	73750
890-6187-35	SW09	Total/NA	Solid	8021B	73750
MB 880-73750/5-A	Method Blank	Total/NA	Solid	8021B	73750
LCS 880-73750/1-A	Lab Control Sample	Total/NA	Solid	8021B	73750
LCSD 880-73750/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	73750
890-6187-21 MS	FS24B	Total/NA	Solid	8021B	73750
890-6187-21 MSD	FS24B	Total/NA	Solid	8021B	73750

GC Semi VOA

Analysis Batch: 73420

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6187-1	FS48A	Total/NA	Solid	8015B NM	73443
890-6187-2	FS49A	Total/NA	Solid	8015B NM	73443
890-6187-3	FS51A	Total/NA	Solid	8015B NM	73443
890-6187-4	FS45A	Total/NA	Solid	8015B NM	73443
890-6187-5	FS46A	Total/NA	Solid	8015B NM	73443
890-6187-6	FS39A	Total/NA	Solid	8015B NM	73443

QC Association Summary

Client: Ensolum
Project/Site: Poker Lake Unit 409

Job ID: 890-6187-1
SDG: 03C1558114

GC Semi VOA (Continued)

Analysis Batch: 73420 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6187-7	FS34A	Total/NA	Solid	8015B NM	73443
890-6187-8	FS35A	Total/NA	Solid	8015B NM	73443
890-6187-9	FS36A	Total/NA	Solid	8015B NM	73443
890-6187-10	FS37A	Total/NA	Solid	8015B NM	73443
890-6187-11	FS40A	Total/NA	Solid	8015B NM	73443
890-6187-12	FS41A	Total/NA	Solid	8015B NM	73443
890-6187-13	SW06	Total/NA	Solid	8015B NM	73443
890-6187-14	SW07	Total/NA	Solid	8015B NM	73443
890-6187-15	FS14A	Total/NA	Solid	8015B NM	73443
890-6187-16	FS21A	Total/NA	Solid	8015B NM	73443
890-6187-17	FS22A	Total/NA	Solid	8015B NM	73443
890-6187-18	FS23A	Total/NA	Solid	8015B NM	73443
890-6187-19	FS19A	Total/NA	Solid	8015B NM	73443
890-6187-20	FS20B	Total/NA	Solid	8015B NM	73443
MB 880-73443/1-A	Method Blank	Total/NA	Solid	8015B NM	73443
LCS 880-73443/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	73443
LCSD 880-73443/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	73443
890-6187-1 MS	FS48A	Total/NA	Solid	8015B NM	73443
890-6187-1 MSD	FS48A	Total/NA	Solid	8015B NM	73443

Analysis Batch: 73424

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6187-21	FS24B	Total/NA	Solid	8015B NM	73454
890-6187-22	FS30A	Total/NA	Solid	8015B NM	73454
890-6187-23	FS09A	Total/NA	Solid	8015B NM	73454
890-6187-24	FS10A	Total/NA	Solid	8015B NM	73454
890-6187-25	FS11A	Total/NA	Solid	8015B NM	73454
890-6187-26	FS15A	Total/NA	Solid	8015B NM	73454
890-6187-27	FS04A	Total/NA	Solid	8015B NM	73454
890-6187-28	FS05A	Total/NA	Solid	8015B NM	73454
890-6187-29	FS06A	Total/NA	Solid	8015B NM	73454
890-6187-30	FS07A	Total/NA	Solid	8015B NM	73454
890-6187-31	FS08A	Total/NA	Solid	8015B NM	73454
890-6187-32	FS01A	Total/NA	Solid	8015B NM	73454
890-6187-33	FS03B	Total/NA	Solid	8015B NM	73454
890-6187-34	SW08	Total/NA	Solid	8015B NM	73454
MB 880-73454/1-A	Method Blank	Total/NA	Solid	8015B NM	73454
LCS 880-73454/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	73454
LCSD 880-73454/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	73454
890-6187-21 MS	FS24B	Total/NA	Solid	8015B NM	73454
890-6187-21 MSD	FS24B	Total/NA	Solid	8015B NM	73454

Prep Batch: 73441

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6187-35	SW09	Total/NA	Solid	8015NM Prep	
MB 880-73441/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-73441/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-73441/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-6186-A-21-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-6186-A-21-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Ensolum
Project/Site: Poker Lake Unit 409

Job ID: 890-6187-1
SDG: 03C1558114

GC Semi VOA

Prep Batch: 73443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6187-1	FS48A	Total/NA	Solid	8015NM Prep	
890-6187-2	FS49A	Total/NA	Solid	8015NM Prep	
890-6187-3	FS51A	Total/NA	Solid	8015NM Prep	
890-6187-4	FS45A	Total/NA	Solid	8015NM Prep	
890-6187-5	FS46A	Total/NA	Solid	8015NM Prep	
890-6187-6	FS39A	Total/NA	Solid	8015NM Prep	
890-6187-7	FS34A	Total/NA	Solid	8015NM Prep	
890-6187-8	FS35A	Total/NA	Solid	8015NM Prep	
890-6187-9	FS36A	Total/NA	Solid	8015NM Prep	
890-6187-10	FS37A	Total/NA	Solid	8015NM Prep	
890-6187-11	FS40A	Total/NA	Solid	8015NM Prep	
890-6187-12	FS41A	Total/NA	Solid	8015NM Prep	
890-6187-13	SW06	Total/NA	Solid	8015NM Prep	
890-6187-14	SW07	Total/NA	Solid	8015NM Prep	
890-6187-15	FS14A	Total/NA	Solid	8015NM Prep	
890-6187-16	FS21A	Total/NA	Solid	8015NM Prep	
890-6187-17	FS22A	Total/NA	Solid	8015NM Prep	
890-6187-18	FS23A	Total/NA	Solid	8015NM Prep	
890-6187-19	FS19A	Total/NA	Solid	8015NM Prep	
890-6187-20	FS20B	Total/NA	Solid	8015NM Prep	
MB 880-73443/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-73443/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-73443/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-6187-1 MS	FS48A	Total/NA	Solid	8015NM Prep	
890-6187-1 MSD	FS48A	Total/NA	Solid	8015NM Prep	

Prep Batch: 73454

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6187-21	FS24B	Total/NA	Solid	8015NM Prep	
890-6187-22	FS30A	Total/NA	Solid	8015NM Prep	
890-6187-23	FS09A	Total/NA	Solid	8015NM Prep	
890-6187-24	FS10A	Total/NA	Solid	8015NM Prep	
890-6187-25	FS11A	Total/NA	Solid	8015NM Prep	
890-6187-26	FS15A	Total/NA	Solid	8015NM Prep	
890-6187-27	FS04A	Total/NA	Solid	8015NM Prep	
890-6187-28	FS05A	Total/NA	Solid	8015NM Prep	
890-6187-29	FS06A	Total/NA	Solid	8015NM Prep	
890-6187-30	FS07A	Total/NA	Solid	8015NM Prep	
890-6187-31	FS08A	Total/NA	Solid	8015NM Prep	
890-6187-32	FS01A	Total/NA	Solid	8015NM Prep	
890-6187-33	FS03B	Total/NA	Solid	8015NM Prep	
890-6187-34	SW08	Total/NA	Solid	8015NM Prep	
MB 880-73454/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-73454/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-73454/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-6187-21 MS	FS24B	Total/NA	Solid	8015NM Prep	
890-6187-21 MSD	FS24B	Total/NA	Solid	8015NM Prep	

Analysis Batch: 73627

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6187-1	FS48A	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Ensolum
Project/Site: Poker Lake Unit 409

Job ID: 890-6187-1
SDG: 03C1558114

GC Semi VOA (Continued)

Analysis Batch: 73627 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6187-2	FS49A	Total/NA	Solid	8015 NM	
890-6187-3	FS51A	Total/NA	Solid	8015 NM	
890-6187-4	FS45A	Total/NA	Solid	8015 NM	
890-6187-5	FS46A	Total/NA	Solid	8015 NM	
890-6187-6	FS39A	Total/NA	Solid	8015 NM	
890-6187-7	FS34A	Total/NA	Solid	8015 NM	
890-6187-8	FS35A	Total/NA	Solid	8015 NM	
890-6187-9	FS36A	Total/NA	Solid	8015 NM	
890-6187-10	FS37A	Total/NA	Solid	8015 NM	
890-6187-11	FS40A	Total/NA	Solid	8015 NM	
890-6187-12	FS41A	Total/NA	Solid	8015 NM	
890-6187-13	SW06	Total/NA	Solid	8015 NM	
890-6187-14	SW07	Total/NA	Solid	8015 NM	
890-6187-15	FS14A	Total/NA	Solid	8015 NM	
890-6187-16	FS21A	Total/NA	Solid	8015 NM	
890-6187-17	FS22A	Total/NA	Solid	8015 NM	
890-6187-18	FS23A	Total/NA	Solid	8015 NM	
890-6187-19	FS19A	Total/NA	Solid	8015 NM	
890-6187-20	FS20B	Total/NA	Solid	8015 NM	
890-6187-21	FS24B	Total/NA	Solid	8015 NM	
890-6187-22	FS30A	Total/NA	Solid	8015 NM	
890-6187-23	FS09A	Total/NA	Solid	8015 NM	
890-6187-24	FS10A	Total/NA	Solid	8015 NM	
890-6187-25	FS11A	Total/NA	Solid	8015 NM	
890-6187-26	FS15A	Total/NA	Solid	8015 NM	
890-6187-27	FS04A	Total/NA	Solid	8015 NM	
890-6187-28	FS05A	Total/NA	Solid	8015 NM	
890-6187-29	FS06A	Total/NA	Solid	8015 NM	
890-6187-30	FS07A	Total/NA	Solid	8015 NM	
890-6187-31	FS08A	Total/NA	Solid	8015 NM	
890-6187-32	FS01A	Total/NA	Solid	8015 NM	
890-6187-33	FS03B	Total/NA	Solid	8015 NM	
890-6187-34	SW08	Total/NA	Solid	8015 NM	
890-6187-35	SW09	Total/NA	Solid	8015 NM	

Analysis Batch: 73704

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6187-35	SW09	Total/NA	Solid	8015B NM	73441
MB 880-73441/1-A	Method Blank	Total/NA	Solid	8015B NM	73441
LCS 880-73441/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	73441
LCSD 880-73441/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	73441
890-6186-A-21-C MS	Matrix Spike	Total/NA	Solid	8015B NM	73441
890-6186-A-21-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	73441

HPLC/IC

Leach Batch: 73322

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6187-1	FS48A	Soluble	Solid	DI Leach	
890-6187-2	FS49A	Soluble	Solid	DI Leach	
890-6187-3	FS51A	Soluble	Solid	DI Leach	

QC Association Summary

Client: Ensolum
Project/Site: Poker Lake Unit 409

Job ID: 890-6187-1
SDG: 03C1558114

HPLC/IC (Continued)

Leach Batch: 73322 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6187-4	FS45A	Soluble	Solid	DI Leach	
890-6187-5	FS46A	Soluble	Solid	DI Leach	
890-6187-6	FS39A	Soluble	Solid	DI Leach	
890-6187-7	FS34A	Soluble	Solid	DI Leach	
890-6187-8	FS35A	Soluble	Solid	DI Leach	
890-6187-9	FS36A	Soluble	Solid	DI Leach	
890-6187-10	FS37A	Soluble	Solid	DI Leach	
890-6187-11	FS40A	Soluble	Solid	DI Leach	
890-6187-12	FS41A	Soluble	Solid	DI Leach	
890-6187-13	SW06	Soluble	Solid	DI Leach	
890-6187-14	SW07	Soluble	Solid	DI Leach	
890-6187-15	FS14A	Soluble	Solid	DI Leach	
890-6187-16	FS21A	Soluble	Solid	DI Leach	
890-6187-17	FS22A	Soluble	Solid	DI Leach	
890-6187-18	FS23A	Soluble	Solid	DI Leach	
890-6187-19	FS19A	Soluble	Solid	DI Leach	
890-6187-20	FS20B	Soluble	Solid	DI Leach	
MB 880-73322/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-73322/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-73322/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-6187-1 MS	FS48A	Soluble	Solid	DI Leach	
890-6187-1 MSD	FS48A	Soluble	Solid	DI Leach	
890-6187-11 MS	FS40A	Soluble	Solid	DI Leach	
890-6187-11 MSD	FS40A	Soluble	Solid	DI Leach	

Leach Batch: 73323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6187-21	FS24B	Soluble	Solid	DI Leach	
890-6187-22	FS30A	Soluble	Solid	DI Leach	
890-6187-23	FS09A	Soluble	Solid	DI Leach	
890-6187-24	FS10A	Soluble	Solid	DI Leach	
890-6187-25	FS11A	Soluble	Solid	DI Leach	
890-6187-26	FS15A	Soluble	Solid	DI Leach	
890-6187-27	FS04A	Soluble	Solid	DI Leach	
890-6187-28	FS05A	Soluble	Solid	DI Leach	
890-6187-29	FS06A	Soluble	Solid	DI Leach	
890-6187-30	FS07A	Soluble	Solid	DI Leach	
890-6187-31	FS08A	Soluble	Solid	DI Leach	
890-6187-32	FS01A	Soluble	Solid	DI Leach	
890-6187-33	FS03B	Soluble	Solid	DI Leach	
890-6187-34	SW08	Soluble	Solid	DI Leach	
890-6187-35	SW09	Soluble	Solid	DI Leach	
MB 880-73323/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-73323/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-73323/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-6187-26 MS	FS15A	Soluble	Solid	DI Leach	
890-6187-26 MSD	FS15A	Soluble	Solid	DI Leach	

Analysis Batch: 73450

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6187-1	FS48A	Soluble	Solid	300.0	73322

QC Association Summary

Client: Ensolum
Project/Site: Poker Lake Unit 409

Job ID: 890-6187-1
SDG: 03C1558114

HPLC/IC (Continued)

Analysis Batch: 73450 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6187-2	FS49A	Soluble	Solid	300.0	73322
890-6187-3	FS51A	Soluble	Solid	300.0	73322
890-6187-4	FS45A	Soluble	Solid	300.0	73322
890-6187-5	FS46A	Soluble	Solid	300.0	73322
890-6187-6	FS39A	Soluble	Solid	300.0	73322
890-6187-7	FS34A	Soluble	Solid	300.0	73322
890-6187-8	FS35A	Soluble	Solid	300.0	73322
890-6187-9	FS36A	Soluble	Solid	300.0	73322
890-6187-10	FS37A	Soluble	Solid	300.0	73322
890-6187-11	FS40A	Soluble	Solid	300.0	73322
890-6187-12	FS41A	Soluble	Solid	300.0	73322
890-6187-13	SW06	Soluble	Solid	300.0	73322
890-6187-14	SW07	Soluble	Solid	300.0	73322
890-6187-15	FS14A	Soluble	Solid	300.0	73322
890-6187-16	FS21A	Soluble	Solid	300.0	73322
890-6187-17	FS22A	Soluble	Solid	300.0	73322
890-6187-18	FS23A	Soluble	Solid	300.0	73322
890-6187-19	FS19A	Soluble	Solid	300.0	73322
890-6187-20	FS20B	Soluble	Solid	300.0	73322
MB 880-73322/1-A	Method Blank	Soluble	Solid	300.0	73322
LCS 880-73322/2-A	Lab Control Sample	Soluble	Solid	300.0	73322
LCSD 880-73322/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	73322
890-6187-1 MS	FS48A	Soluble	Solid	300.0	73322
890-6187-1 MSD	FS48A	Soluble	Solid	300.0	73322
890-6187-11 MS	FS40A	Soluble	Solid	300.0	73322
890-6187-11 MSD	FS40A	Soluble	Solid	300.0	73322

Analysis Batch: 73451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6187-21	FS24B	Soluble	Solid	300.0	73323
890-6187-22	FS30A	Soluble	Solid	300.0	73323
890-6187-23	FS09A	Soluble	Solid	300.0	73323
890-6187-24	FS10A	Soluble	Solid	300.0	73323
890-6187-25	FS11A	Soluble	Solid	300.0	73323
890-6187-26	FS15A	Soluble	Solid	300.0	73323
890-6187-27	FS04A	Soluble	Solid	300.0	73323
890-6187-28	FS05A	Soluble	Solid	300.0	73323
890-6187-29	FS06A	Soluble	Solid	300.0	73323
890-6187-30	FS07A	Soluble	Solid	300.0	73323
890-6187-31	FS08A	Soluble	Solid	300.0	73323
890-6187-32	FS01A	Soluble	Solid	300.0	73323
890-6187-33	FS03B	Soluble	Solid	300.0	73323
890-6187-34	SW08	Soluble	Solid	300.0	73323
890-6187-35	SW09	Soluble	Solid	300.0	73323
MB 880-73323/1-A	Method Blank	Soluble	Solid	300.0	73323
LCS 880-73323/2-A	Lab Control Sample	Soluble	Solid	300.0	73323
LCSD 880-73323/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	73323
890-6187-26 MS	FS15A	Soluble	Solid	300.0	73323
890-6187-26 MSD	FS15A	Soluble	Solid	300.0	73323

Lab Chronicle

Client: Ensolum
Project/Site: Poker Lake Unit 409

Job ID: 890-6187-1
SDG: 03C1558114

Client Sample ID: FS48A
Date Collected: 02/13/24 12:35
Date Received: 02/14/24 16:40

Lab Sample ID: 890-6187-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	73286	02/15/24 15:40	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73716	02/22/24 03:16	EL	EET MID
Total/NA	Analysis	Total BTEX		1			73884	02/22/24 03:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			73627	02/19/24 21:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	73443	02/19/24 09:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73420	02/19/24 21:01	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	73322	02/16/24 09:06	SA	EET MID
Soluble	Analysis	300.0		1			73450	02/19/24 15:13	CH	EET MID

Client Sample ID: FS49A
Date Collected: 02/13/24 12:40
Date Received: 02/14/24 16:40

Lab Sample ID: 890-6187-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	73286	02/15/24 15:40	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73716	02/22/24 03:43	EL	EET MID
Total/NA	Analysis	Total BTEX		1			73884	02/22/24 03:43	SM	EET MID
Total/NA	Analysis	8015 NM		1			73627	02/19/24 22:09	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	73443	02/19/24 09:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73420	02/19/24 22:09	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	73322	02/16/24 09:06	SA	EET MID
Soluble	Analysis	300.0		5			73450	02/19/24 15:27	CH	EET MID

Client Sample ID: FS51A
Date Collected: 02/13/24 12:45
Date Received: 02/14/24 16:40

Lab Sample ID: 890-6187-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	73286	02/15/24 15:40	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73716	02/22/24 04:09	EL	EET MID
Total/NA	Analysis	Total BTEX		1			73884	02/22/24 04:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			73627	02/19/24 22:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	73443	02/19/24 09:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73420	02/19/24 22:31	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	73322	02/16/24 09:06	SA	EET MID
Soluble	Analysis	300.0		1			73450	02/19/24 15:32	CH	EET MID

Client Sample ID: FS45A
Date Collected: 02/13/24 14:15
Date Received: 02/14/24 16:40

Lab Sample ID: 890-6187-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	73286	02/15/24 15:40	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73716	02/22/24 04:36	EL	EET MID
Total/NA	Analysis	Total BTEX		1			73884	02/22/24 04:36	SM	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: Poker Lake Unit 409

Job ID: 890-6187-1
SDG: 03C1558114

Client Sample ID: FS45A
Date Collected: 02/13/24 14:15
Date Received: 02/14/24 16:40

Lab Sample ID: 890-6187-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			73627	02/19/24 22:54	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	73443	02/19/24 09:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73420	02/19/24 22:54	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	73322	02/16/24 09:06	SA	EET MID
Soluble	Analysis	300.0		1			73450	02/19/24 15:36	CH	EET MID

Client Sample ID: FS46A
Date Collected: 02/13/24 14:20
Date Received: 02/14/24 16:40

Lab Sample ID: 890-6187-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	73286	02/15/24 15:40	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73716	02/22/24 05:02	EL	EET MID
Total/NA	Analysis	Total BTEX		1			73884	02/22/24 05:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			73627	02/19/24 23:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	73443	02/19/24 09:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73420	02/19/24 23:16	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	73322	02/16/24 09:06	SA	EET MID
Soluble	Analysis	300.0		1			73450	02/19/24 15:41	CH	EET MID

Client Sample ID: FS39A
Date Collected: 02/13/24 14:25
Date Received: 02/14/24 16:40

Lab Sample ID: 890-6187-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	73286	02/15/24 15:40	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73716	02/22/24 05:29	EL	EET MID
Total/NA	Analysis	Total BTEX		1			73884	02/22/24 05:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			73627	02/19/24 23:39	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	73443	02/19/24 09:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73420	02/19/24 23:39	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	73322	02/16/24 09:06	SA	EET MID
Soluble	Analysis	300.0		5			73450	02/19/24 15:55	CH	EET MID

Client Sample ID: FS34A
Date Collected: 02/14/24 09:30
Date Received: 02/14/24 16:40

Lab Sample ID: 890-6187-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	73286	02/15/24 15:40	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73716	02/22/24 05:56	EL	EET MID
Total/NA	Analysis	Total BTEX		1			73884	02/22/24 05:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			73627	02/20/24 00:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	73443	02/19/24 09:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73420	02/20/24 00:01	SM	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: Poker Lake Unit 409

Job ID: 890-6187-1
SDG: 03C1558114

Client Sample ID: FS34A
Date Collected: 02/14/24 09:30
Date Received: 02/14/24 16:40

Lab Sample ID: 890-6187-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.97 g	50 mL	73322	02/16/24 09:06	SA	EET MID
Soluble	Analysis	300.0		10			73450	02/19/24 15:59	CH	EET MID

Client Sample ID: FS35A
Date Collected: 02/14/24 09:35
Date Received: 02/14/24 16:40

Lab Sample ID: 890-6187-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	73286	02/15/24 15:40	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73716	02/22/24 06:22	EL	EET MID
Total/NA	Analysis	Total BTEX		1			73884	02/22/24 06:22	SM	EET MID
Total/NA	Analysis	8015 NM		1			73627	02/20/24 00:23	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	73443	02/19/24 09:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73420	02/20/24 00:23	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	73322	02/16/24 09:06	SA	EET MID
Soluble	Analysis	300.0		10			73450	02/19/24 16:04	CH	EET MID

Client Sample ID: FS36A
Date Collected: 02/14/24 09:40
Date Received: 02/14/24 16:40

Lab Sample ID: 890-6187-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	73286	02/15/24 15:40	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73716	02/22/24 06:49	EL	EET MID
Total/NA	Analysis	Total BTEX		1			73884	02/22/24 06:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			73627	02/20/24 00:46	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	73443	02/19/24 09:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73420	02/20/24 00:46	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	73322	02/16/24 09:06	SA	EET MID
Soluble	Analysis	300.0		10			73450	02/19/24 16:09	CH	EET MID

Client Sample ID: FS37A
Date Collected: 02/14/24 09:45
Date Received: 02/14/24 16:40

Lab Sample ID: 890-6187-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	73286	02/15/24 15:40	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73716	02/22/24 07:15	EL	EET MID
Total/NA	Analysis	Total BTEX		1			73884	02/22/24 07:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			73627	02/20/24 01:09	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	73443	02/19/24 09:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73420	02/20/24 01:09	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	73322	02/16/24 09:06	SA	EET MID
Soluble	Analysis	300.0		10			73450	02/19/24 16:13	CH	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: Poker Lake Unit 409

Job ID: 890-6187-1
SDG: 03C1558114

Client Sample ID: FS40A
Date Collected: 02/14/24 09:50
Date Received: 02/14/24 16:40

Lab Sample ID: 890-6187-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	73286	02/15/24 15:40	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73716	02/22/24 09:30	EL	EET MID
Total/NA	Analysis	Total BTEX		1			73884	02/22/24 09:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			73627	02/20/24 01:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	73443	02/19/24 09:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73420	02/20/24 01:53	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	73322	02/16/24 09:06	SA	EET MID
Soluble	Analysis	300.0		5			73450	02/19/24 16:18	CH	EET MID

Client Sample ID: FS41A
Date Collected: 02/14/24 09:55
Date Received: 02/14/24 16:40

Lab Sample ID: 890-6187-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	73286	02/15/24 15:40	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73716	02/22/24 09:57	EL	EET MID
Total/NA	Analysis	Total BTEX		1			73884	02/22/24 09:57	SM	EET MID
Total/NA	Analysis	8015 NM		1			73627	02/20/24 02:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	73443	02/19/24 09:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73420	02/20/24 02:16	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	73322	02/16/24 09:06	SA	EET MID
Soluble	Analysis	300.0		5			73450	02/19/24 16:32	CH	EET MID

Client Sample ID: SW06
Date Collected: 02/14/24 10:45
Date Received: 02/14/24 16:40

Lab Sample ID: 890-6187-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	73286	02/15/24 15:40	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73716	02/22/24 10:25	EL	EET MID
Total/NA	Analysis	Total BTEX		1			73884	02/22/24 10:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			73627	02/20/24 02:38	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	73443	02/19/24 09:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73420	02/20/24 02:38	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	73322	02/16/24 09:06	SA	EET MID
Soluble	Analysis	300.0		1			73450	02/19/24 16:36	CH	EET MID

Client Sample ID: SW07
Date Collected: 02/14/24 10:50
Date Received: 02/14/24 16:40

Lab Sample ID: 890-6187-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	73286	02/15/24 15:40	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73716	02/22/24 10:52	EL	EET MID
Total/NA	Analysis	Total BTEX		1			73884	02/22/24 10:52	SM	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: Poker Lake Unit 409

Job ID: 890-6187-1
SDG: 03C1558114

Client Sample ID: SW07

Lab Sample ID: 890-6187-14
Matrix: Solid
Date Collected: 02/14/24 10:50
Date Received: 02/14/24 16:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			73627	02/20/24 03:00	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	73443	02/19/24 09:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73420	02/20/24 03:00	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	73322	02/16/24 09:06	SA	EET MID
Soluble	Analysis	300.0		1			73450	02/19/24 16:50	CH	EET MID

Client Sample ID: FS14A

Lab Sample ID: 890-6187-15
Matrix: Solid
Date Collected: 02/14/24 11:25
Date Received: 02/14/24 16:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	73286	02/15/24 15:40	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73716	02/22/24 11:19	EL	EET MID
Total/NA	Analysis	Total BTEX		1			73884	02/22/24 11:19	SM	EET MID
Total/NA	Analysis	8015 NM		1			73627	02/20/24 03:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	73443	02/19/24 09:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73420	02/20/24 03:22	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	73322	02/16/24 09:06	SA	EET MID
Soluble	Analysis	300.0		5			73450	02/19/24 16:55	CH	EET MID

Client Sample ID: FS21A

Lab Sample ID: 890-6187-16
Matrix: Solid
Date Collected: 02/14/24 11:30
Date Received: 02/14/24 16:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	73286	02/15/24 15:40	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73716	02/22/24 11:45	EL	EET MID
Total/NA	Analysis	Total BTEX		1			73884	02/22/24 11:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			73627	02/20/24 03:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	73443	02/19/24 09:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73420	02/20/24 03:45	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	73322	02/16/24 09:06	SA	EET MID
Soluble	Analysis	300.0		1			73450	02/19/24 17:00	CH	EET MID

Client Sample ID: FS22A

Lab Sample ID: 890-6187-17
Matrix: Solid
Date Collected: 02/14/24 11:35
Date Received: 02/14/24 16:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	73286	02/15/24 15:40	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73716	02/22/24 12:12	EL	EET MID
Total/NA	Analysis	Total BTEX		1			73884	02/22/24 12:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			73627	02/20/24 04:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	73443	02/19/24 09:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73420	02/20/24 04:07	SM	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: Poker Lake Unit 409

Job ID: 890-6187-1
SDG: 03C1558114

Client Sample ID: FS22A
Date Collected: 02/14/24 11:35
Date Received: 02/14/24 16:40

Lab Sample ID: 890-6187-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	73322	02/16/24 09:06	SA	EET MID
Soluble	Analysis	300.0		1			73450	02/19/24 17:04	CH	EET MID

Client Sample ID: FS23A
Date Collected: 02/14/24 11:40
Date Received: 02/14/24 16:40

Lab Sample ID: 890-6187-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	73286	02/15/24 15:40	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73716	02/22/24 12:39	EL	EET MID
Total/NA	Analysis	Total BTEX		1			73884	02/22/24 12:39	SM	EET MID
Total/NA	Analysis	8015 NM		1			73627	02/20/24 04:29	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	73443	02/19/24 09:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73420	02/20/24 04:29	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	73322	02/16/24 09:06	SA	EET MID
Soluble	Analysis	300.0		1			73450	02/19/24 17:09	CH	EET MID

Client Sample ID: FS19A
Date Collected: 02/14/24 11:45
Date Received: 02/14/24 16:40

Lab Sample ID: 890-6187-19
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	73286	02/15/24 15:40	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73716	02/22/24 13:05	EL	EET MID
Total/NA	Analysis	Total BTEX		1			73884	02/22/24 13:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			73627	02/20/24 04:51	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	73443	02/19/24 09:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73420	02/20/24 04:51	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	73322	02/16/24 09:06	SA	EET MID
Soluble	Analysis	300.0		1			73450	02/19/24 17:13	CH	EET MID

Client Sample ID: FS20B
Date Collected: 02/14/24 11:50
Date Received: 02/14/24 16:40

Lab Sample ID: 890-6187-20
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	73286	02/15/24 15:40	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73716	02/22/24 13:32	EL	EET MID
Total/NA	Analysis	Total BTEX		1			73884	02/22/24 13:32	SM	EET MID
Total/NA	Analysis	8015 NM		1			73627	02/20/24 05:14	SM	EET MID
Total/NA	Prep	8015NM Prep			9.93 g	10 mL	73443	02/19/24 09:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73420	02/20/24 05:14	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	73322	02/16/24 09:06	SA	EET MID
Soluble	Analysis	300.0		5			73450	02/19/24 17:18	CH	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: Poker Lake Unit 409

Job ID: 890-6187-1
SDG: 03C1558114

Client Sample ID: FS24B
Date Collected: 02/14/24 11:55
Date Received: 02/14/24 16:40

Lab Sample ID: 890-6187-21
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	73750	02/21/24 09:42	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73976	02/24/24 14:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73884	02/24/24 14:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			73627	02/19/24 21:39	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	73454	02/19/24 11:08	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73424	02/19/24 21:39	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	73323	02/16/24 09:09	SA	EET MID
Soluble	Analysis	300.0		1			73451	02/19/24 18:37	CH	EET MID

Client Sample ID: FS30A
Date Collected: 02/14/24 12:00
Date Received: 02/14/24 16:40

Lab Sample ID: 890-6187-22
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	73750	02/21/24 09:42	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73976	02/24/24 14:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73884	02/24/24 14:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			73627	02/19/24 22:47	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	73454	02/19/24 11:08	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73424	02/19/24 22:47	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	73323	02/16/24 09:09	SA	EET MID
Soluble	Analysis	300.0		1			73451	02/19/24 18:42	CH	EET MID

Client Sample ID: FS09A
Date Collected: 02/14/24 12:25
Date Received: 02/14/24 16:40

Lab Sample ID: 890-6187-23
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	73750	02/21/24 09:42	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73976	02/24/24 15:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73884	02/24/24 15:06	SM	EET MID
Total/NA	Analysis	8015 NM		1			73627	02/19/24 23:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	73454	02/19/24 11:08	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73424	02/19/24 23:09	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	73323	02/16/24 09:09	SA	EET MID
Soluble	Analysis	300.0		1			73451	02/19/24 18:46	CH	EET MID

Client Sample ID: FS10A
Date Collected: 02/14/24 12:30
Date Received: 02/14/24 16:40

Lab Sample ID: 890-6187-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	73750	02/21/24 09:42	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73976	02/24/24 15:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73884	02/24/24 15:26	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: Poker Lake Unit 409

Job ID: 890-6187-1
SDG: 03C1558114

Client Sample ID: FS10A
Date Collected: 02/14/24 12:30
Date Received: 02/14/24 16:40

Lab Sample ID: 890-6187-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			73627	02/19/24 23:32	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	73454	02/19/24 11:08	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73424	02/19/24 23:32	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	73323	02/16/24 09:09	SA	EET MID
Soluble	Analysis	300.0		1			73451	02/19/24 18:51	CH	EET MID

Client Sample ID: FS11A
Date Collected: 02/14/24 12:35
Date Received: 02/14/24 16:40

Lab Sample ID: 890-6187-25
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	73750	02/21/24 09:42	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73976	02/24/24 15:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73884	02/24/24 15:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			73627	02/19/24 23:54	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	73454	02/19/24 11:08	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73424	02/19/24 23:54	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	73323	02/16/24 09:09	SA	EET MID
Soluble	Analysis	300.0		1			73451	02/19/24 18:55	CH	EET MID

Client Sample ID: FS15A
Date Collected: 02/14/24 12:40
Date Received: 02/14/24 16:40

Lab Sample ID: 890-6187-26
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	73750	02/21/24 09:42	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73976	02/24/24 16:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73884	02/24/24 16:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			73627	02/20/24 00:16	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	73454	02/19/24 11:08	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73424	02/20/24 00:16	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	73323	02/16/24 09:09	SA	EET MID
Soluble	Analysis	300.0		1			73451	02/19/24 19:00	CH	EET MID

Client Sample ID: FS04A
Date Collected: 02/14/24 12:45
Date Received: 02/14/24 16:40

Lab Sample ID: 890-6187-27
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	73750	02/21/24 09:42	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73976	02/24/24 16:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73884	02/24/24 16:28	SM	EET MID
Total/NA	Analysis	8015 NM		1			73627	02/20/24 00:38	SM	EET MID
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	73454	02/19/24 11:08	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73424	02/20/24 00:38	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: Poker Lake Unit 409

Job ID: 890-6187-1
SDG: 03C1558114

Client Sample ID: FS04A
Date Collected: 02/14/24 12:45
Date Received: 02/14/24 16:40

Lab Sample ID: 890-6187-27
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.97 g	50 mL	73323	02/16/24 09:09	SA	EET MID
Soluble	Analysis	300.0		1			73451	02/19/24 19:14	CH	EET MID

Client Sample ID: FS05A
Date Collected: 02/14/24 12:50
Date Received: 02/14/24 16:40

Lab Sample ID: 890-6187-28
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	73750	02/21/24 09:42	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73976	02/24/24 16:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73884	02/24/24 16:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			73627	02/20/24 01:01	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	73454	02/19/24 11:08	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73424	02/20/24 01:01	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	73323	02/16/24 09:09	SA	EET MID
Soluble	Analysis	300.0		1			73451	02/19/24 19:19	CH	EET MID

Client Sample ID: FS06A
Date Collected: 02/14/24 12:55
Date Received: 02/14/24 16:40

Lab Sample ID: 890-6187-29
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	73750	02/21/24 09:42	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73976	02/24/24 17:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73884	02/24/24 17:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			73627	02/20/24 01:23	SM	EET MID
Total/NA	Prep	8015NM Prep			9.93 g	10 mL	73454	02/19/24 11:08	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73424	02/20/24 01:23	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	73323	02/16/24 09:09	SA	EET MID
Soluble	Analysis	300.0		1			73451	02/19/24 19:32	CH	EET MID

Client Sample ID: FS07A
Date Collected: 02/14/24 13:00
Date Received: 02/14/24 16:40

Lab Sample ID: 890-6187-30
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	73750	02/21/24 09:42	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73976	02/24/24 17:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73884	02/24/24 17:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			73627	02/20/24 01:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	73454	02/19/24 11:08	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73424	02/20/24 01:45	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	73323	02/16/24 09:09	SA	EET MID
Soluble	Analysis	300.0		5			73451	02/19/24 19:37	CH	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: Poker Lake Unit 409

Job ID: 890-6187-1
SDG: 03C1558114

Client Sample ID: FS08A
Date Collected: 02/14/24 13:05
Date Received: 02/14/24 16:40

Lab Sample ID: 890-6187-31
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	73750	02/21/24 09:42	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73976	02/24/24 19:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73884	02/24/24 19:20	SM	EET MID
Total/NA	Analysis	8015 NM		1			73627	02/20/24 02:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	73454	02/19/24 11:08	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73424	02/20/24 02:30	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	73323	02/16/24 09:09	SA	EET MID
Soluble	Analysis	300.0		5			73451	02/19/24 19:42	CH	EET MID

Client Sample ID: FS01A
Date Collected: 02/14/24 13:50
Date Received: 02/14/24 16:40

Lab Sample ID: 890-6187-32
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	73750	02/21/24 09:42	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73976	02/24/24 19:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73884	02/24/24 19:41	SM	EET MID
Total/NA	Analysis	8015 NM		1			73627	02/20/24 02:52	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	73454	02/19/24 11:08	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73424	02/20/24 02:52	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	73323	02/16/24 09:09	SA	EET MID
Soluble	Analysis	300.0		1			73451	02/19/24 19:46	CH	EET MID

Client Sample ID: FS03B
Date Collected: 02/14/24 14:00
Date Received: 02/14/24 16:40

Lab Sample ID: 890-6187-33
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	73750	02/21/24 09:42	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73976	02/24/24 20:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73884	02/24/24 20:01	SM	EET MID
Total/NA	Analysis	8015 NM		1			73627	02/20/24 03:14	SM	EET MID
Total/NA	Prep	8015NM Prep			9.93 g	10 mL	73454	02/19/24 11:08	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73424	02/20/24 03:14	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	73323	02/16/24 09:09	SA	EET MID
Soluble	Analysis	300.0		1			73451	02/19/24 19:51	CH	EET MID

Client Sample ID: SW08
Date Collected: 02/14/24 14:00
Date Received: 02/14/24 16:40

Lab Sample ID: 890-6187-34
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	73750	02/21/24 09:42	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73976	02/24/24 20:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73884	02/24/24 20:22	SM	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: Poker Lake Unit 409

Job ID: 890-6187-1
SDG: 03C1558114

Client Sample ID: SW08

Lab Sample ID: 890-6187-34
Matrix: Solid
Date Collected: 02/14/24 14:00
Date Received: 02/14/24 16:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			73627	02/20/24 03:37	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	73454	02/19/24 11:08	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73424	02/20/24 03:37	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	73323	02/16/24 09:09	SA	EET MID
Soluble	Analysis	300.0		1			73451	02/19/24 19:56	CH	EET MID

Client Sample ID: SW09

Lab Sample ID: 890-6187-35
Matrix: Solid
Date Collected: 02/14/24 14:00
Date Received: 02/14/24 16:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	73750	02/21/24 09:42	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73976	02/24/24 20:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73884	02/24/24 20:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			73627	02/22/24 05:59	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	73441	02/19/24 09:13	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73704	02/22/24 05:59	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	73323	02/16/24 09:09	SA	EET MID
Soluble	Analysis	300.0		1			73451	02/19/24 20:00	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Poker Lake Unit 409

Job ID: 890-6187-1
SDG: 03C1558114

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ensolum
Project/Site: Poker Lake Unit 409

Job ID: 890-6187-1
SDG: 03C1558114

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum
Project/Site: Poker Lake Unit 409

Job ID: 890-6187-1
SDG: 03C1558114

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-6187-1	FS48A	Solid	02/13/24 12:35	02/14/24 16:40	4
890-6187-2	FS49A	Solid	02/13/24 12:40	02/14/24 16:40	4
890-6187-3	FS51A	Solid	02/13/24 12:45	02/14/24 16:40	4
890-6187-4	FS45A	Solid	02/13/24 14:15	02/14/24 16:40	4
890-6187-5	FS46A	Solid	02/13/24 14:20	02/14/24 16:40	4
890-6187-6	FS39A	Solid	02/13/24 14:25	02/14/24 16:40	4
890-6187-7	FS34A	Solid	02/14/24 09:30	02/14/24 16:40	4
890-6187-8	FS35A	Solid	02/14/24 09:35	02/14/24 16:40	4
890-6187-9	FS36A	Solid	02/14/24 09:40	02/14/24 16:40	4
890-6187-10	FS37A	Solid	02/14/24 09:45	02/14/24 16:40	4
890-6187-11	FS40A	Solid	02/14/24 09:50	02/14/24 16:40	4
890-6187-12	FS41A	Solid	02/14/24 09:55	02/14/24 16:40	4
890-6187-13	SW06	Solid	02/14/24 10:45	02/14/24 16:40	4
890-6187-14	SW07	Solid	02/14/24 10:50	02/14/24 16:40	4
890-6187-15	FS14A	Solid	02/14/24 11:25	02/14/24 16:40	4
890-6187-16	FS21A	Solid	02/14/24 11:30	02/14/24 16:40	4
890-6187-17	FS22A	Solid	02/14/24 11:35	02/14/24 16:40	4
890-6187-18	FS23A	Solid	02/14/24 11:40	02/14/24 16:40	4
890-6187-19	FS19A	Solid	02/14/24 11:45	02/14/24 16:40	4
890-6187-20	FS20B	Solid	02/14/24 11:50	02/14/24 16:40	4
890-6187-21	FS24B	Solid	02/14/24 11:55	02/14/24 16:40	4
890-6187-22	FS30A	Solid	02/14/24 12:00	02/14/24 16:40	4
890-6187-23	FS09A	Solid	02/14/24 12:25	02/14/24 16:40	4
890-6187-24	FS10A	Solid	02/14/24 12:30	02/14/24 16:40	4
890-6187-25	FS11A	Solid	02/14/24 12:35	02/14/24 16:40	4
890-6187-26	FS15A	Solid	02/14/24 12:40	02/14/24 16:40	4
890-6187-27	FS04A	Solid	02/14/24 12:45	02/14/24 16:40	4
890-6187-28	FS05A	Solid	02/14/24 12:50	02/14/24 16:40	4
890-6187-29	FS06A	Solid	02/14/24 12:55	02/14/24 16:40	4
890-6187-30	FS07A	Solid	02/14/24 13:00	02/14/24 16:40	4
890-6187-31	FS08A	Solid	02/14/24 13:05	02/14/24 16:40	4
890-6187-32	FS01A	Solid	02/14/24 13:50	02/14/24 16:40	4
890-6187-33	FS03B	Solid	02/14/24 14:00	02/14/24 16:40	4
890-6187-34	SW08	Solid	02/14/24 14:00	02/14/24 16:40	4
890-6187-35	SW09	Solid	02/14/24 14:00	02/14/24 16:40	4

Chain of Custody

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Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
~~Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199~~

Work Order No: _____

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Project Manager:	Tacoma Morrissey	Bill to. (if different)	Garrett Green
Company Name:	Ensolum	Company Name:	XTO Energy
Address:	3122 National Parks Hwy	Address:	3104 E. Green St.
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	303-887-2946	Email:	Garrett.Green@ExxonMobil.com

Work Order Comments

Program: UST/PST ☐ **PRP** ☐ **Brownfields** ☐ **RRC** ☐ **Superfund** ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Poker Lake Unit 409	**Turn Around**	
Project Number:	03C1558114	☒ Routine ☐ Rush	
Project Location:		Due Date:	
Sampler's Name:	Connor Whitman	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	Tamer 7
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No N/A	Temperature Reading:	1.4
Total Containers:		Corrected Temperature:	1.2

ANALYSIS REQUEST

890-6187 Chain of Custody

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
~~HCL: HC~~ | ~~HNO_3: HN~~
H_2SO_4: H_2 | NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: CHLORIDES (EPA: 3000.0)	TPH (8015)	BTEX (8021)
FS48A	S	2/13/24	1235	4'	C	1				
FS49A			1240							
FS51A			1245							
FS45A			1415							
FS46A			1420							
FS39A		↓	1425							
FS34A		2/14/24	930							
FS35A			935							
FS36A			940							
FS37A	↓	↓	945	↓	↓	↓				

Sample Comments

Incident ID: nAPP2223751933
Cost Center: 1140421001
AFE:

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010:** 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1			10:40 2/14			
3				4		
5				6		

Revised Date: 08/25/2020 Rev. 2020.2

Chain of Custody

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Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199
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Work Order No: _____

Project Manager:	Tacoma Morrissey	Bill to: (if different)	Garrett Green
Company Name:	Ensolum	Company Name:	XTO Energy
Address:	3122 National Parks Hwy	Address:	3104 E. Green St.
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	303-887-2946	Email:	Garrett.Green@ExxonMobil.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Poker Lake Unit 409	Turn Around	
Project Number:	03C1558114	☒ Routine ☐ Rush	
Project Location:		Due Date:	
Sampler's Name:	Connor Whitman	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Samples Received Intact:	Yes No	Thermometer ID:		
Cooler Custody Seals:	Yes No N/A	Correction Factor:		
Sample Custody Seals:	Yes No N/A	Temperature Reading:		
Total Containers:		Corrected Temperature:		

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	CHLORIDES (EPA: 3000.0)	TPH (8015)	BTEX (8021)
FS40A	S	2/14/24	950	4	C	1			
FS41A			955	4					
SW06			1045	0-4					
SW07			1050	0-4					
FS14A			1125	4					
FS21A			1130						
FS22A			1135						
FS23A			1140						
FS19A			1145						
FS20B	↓	↓	1150	↓	↓	↓			

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
~~HCL: HC~~ | ~~HNO_3: HN~~
H_2SO_4: H_2 | NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Comments

Incident ID:
nAPP2223751933

Cost Center:
1140421001

AFE:

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		16.40	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
~~Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199~~

Work Order No: _____

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Project Manager:	Tacoma Morrissey	Bill to: (if different)	Garrett Green
Company Name:	Ensolum	Company Name:	XTO Energy
Address:	3122 National Parks Hwy	Address:	3104 E. Green St.
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	303-887-2946	Email:	Garrett.Green@ExxonMobil.com

Work Order Comments

Program: UST/PST ☐ **PRP** ☐ **Brownfields** ☐ **RRC** ☐ **Superfund** ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Poker Lake Unit 409	**Turn Around**	Pres. Code
Project Number:	03C1558114	☑ Routine ☐ Rush	
Project Location:		Due Date:	
Sampler's Name:	Connor Whitman	TAT starts the day received by the lab, if received by 4:30pm	
~~PO #:~~			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	
Cooler Custody Seals:	Yes No N/A	Correction Factor:	
Sample Custody Seals:	Yes No N/A	Temperature Reading:	
Total Containers:		Corrected Temperature:	

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Parameters: CHLORIDES (EPA: 3000.0)	TPH (8015)	BTEX (8021)
FS24B	S	2/14/24	1155	4	C	1			
FS30A			1200						
FS09A			1225						
FS10A			1230						
FS11A			1235						
FS15A			1240						
FS04A			1245						
FS05A			1250						
FS06A			1255						
FS07A	↓	↓	1300	↓	↓	↓			

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
~~HCL: HC~~ | ~~HNO_3: HN~~
H_2SO_4: H_2 | NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Comments

Incident ID:
nAPP2223751933

Cost Center:
1140421001

AFE:

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		16:40 2/	4		
3			6		
5					

Revised Date: 08/25/2020 Rev. 2020.2

Chain of Custody

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Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

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Project Manager:	Tacoma Morrissey	Bill to: (if different)	Garrett Green
Company Name:	Ensolum	Company Name:	XTO Energy
Address:	3122 National Parks Hwy	Address:	3104 E. Green St.
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	303-887-2946	Email:	Garrett.Green@ExxonMobil.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Poker Lake Unit 409	Turn Around	☑ Routine ☐ Rush
Project Number:	03C1558114	Due Date:	
Project Location:		TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Connor Whitman		
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	
Cooler Custody Seals:	Yes No N/A	Correction Factor:	
Sample Custody Seals:	Yes No N/A	Temperature Reading:	
Total Containers:		Corrected Temperature:	

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
~~HCL: HC~~ | ~~HNO_3: HN~~
H_2SO_4: H_2 | NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: CHLORIDES (EPA: 3000.0)	TPH (8015)	BTEX (8021)
FS08A	S	12/14/24	1305	4	C	1				
FS01A			1350	4						
FS03B			1355	4						
SW08			1400	0-4						
SW09			1405	0-4						

CHN

Sample Comments

Incident ID:
nAPP2223751933
Cost Center:
1140421001
AFE:

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		16:40 12/14	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-6187-1
SDG Number: 03C1558114

Login Number: 6187
List Number: 1
Creator: Lopez, Abraham

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-6187-1
SDG Number: 03C1558114

Login Number: 6187
List Number: 2
Creator: Wheeler, Jazmine

List Source: Eurofins Midland
List Creation: 02/16/24 11:14 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

CARDINAL Laboratories

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

March 22, 2024

TACOMA MORRISSEY

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: PLU 409

Enclosed are the results of analyses for samples received by the laboratory on 03/18/24 12:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	03/18/2024	Sampling Date:	03/18/2024
Reported:	03/22/2024	Sampling Type:	Soil
Project Name:	PLU 409	Sampling Condition:	Cool & Intact
Project Number:	031558114	Sample Received By:	Tamara Oldaker
Project Location:	XTO (32.197077-103.772442)		

Sample ID: SW 10 0-4' (H241382-01)

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	03/20/2024	ND	2.12	106	2.00	2.54	
Toluene*	<0.050	0.050	03/20/2024	ND	2.15	107	2.00	7.48	
Ethylbenzene*	<0.050	0.050	03/20/2024	ND	2.19	109	2.00	11.2	
Total Xylenes*	<0.150	0.150	03/20/2024	ND	6.50	108	6.00	11.8	
Total BTEX	<0.300	0.300	03/20/2024	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: CT

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	03/19/2024	ND	416	104	400	7.41	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/19/2024	ND	207	104	200	19.2	
DRO >C10-C28*	<10.0	10.0	03/19/2024	ND	207	104	200	15.6	
EXT DRO >C28-C36	<10.0	10.0	03/19/2024	ND					

Surrogate: 1-Chlorooctane *101 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *110 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	03/18/2024	Sampling Date:	03/18/2024
Reported:	03/22/2024	Sampling Type:	Soil
Project Name:	PLU 409	Sampling Condition:	Cool & Intact
Project Number:	031558114	Sample Received By:	Tamara Oldaker
Project Location:	XTO (32.197077-103.772442)		

Sample ID: SW 11 0-4' (H241382-02)

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	03/20/2024	ND	2.12	106	2.00	2.54	
Toluene*	<0.050	0.050	03/20/2024	ND	2.15	107	2.00	7.48	
Ethylbenzene*	<0.050	0.050	03/20/2024	ND	2.19	109	2.00	11.2	
Total Xylenes*	<0.150	0.150	03/20/2024	ND	6.50	108	6.00	11.8	
Total BTEX	<0.300	0.300	03/20/2024	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: CT

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/19/2024	ND	416	104	400	7.41	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/19/2024	ND	207	104	200	19.2	
DRO >C10-C28*	<10.0	10.0	03/19/2024	ND	207	104	200	15.6	
EXT DRO >C28-C36	<10.0	10.0	03/19/2024	ND					

Surrogate: 1-Chlorooctane *78.0 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *84.4 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	03/18/2024	Sampling Date:	03/18/2024
Reported:	03/22/2024	Sampling Type:	Soil
Project Name:	PLU 409	Sampling Condition:	Cool & Intact
Project Number:	031558114	Sample Received By:	Tamara Oldaker
Project Location:	XTO (32.197077-103.772442)		

Sample ID: SW 12 0-4' (H241382-03)

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	03/20/2024	ND	2.12	106	2.00	2.54	
Toluene*	<0.050	0.050	03/20/2024	ND	2.15	107	2.00	7.48	
Ethylbenzene*	<0.050	0.050	03/20/2024	ND	2.19	109	2.00	11.2	
Total Xylenes*	<0.150	0.150	03/20/2024	ND	6.50	108	6.00	11.8	
Total BTEX	<0.300	0.300	03/20/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *122 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: CT

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	03/19/2024	ND	416	104	400	7.41	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/19/2024	ND	207	104	200	19.2	
DRO >C10-C28*	<10.0	10.0	03/19/2024	ND	207	104	200	15.6	
EXT DRO >C28-C36	<10.0	10.0	03/19/2024	ND					

Surrogate: 1-Chlorooctane *100 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *110 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	03/18/2024	Sampling Date:	03/18/2024
Reported:	03/22/2024	Sampling Type:	Soil
Project Name:	PLU 409	Sampling Condition:	Cool & Intact
Project Number:	031558114	Sample Received By:	Tamara Oldaker
Project Location:	XTO (32.197077-103.772442)		

Sample ID: SW 13 0-4' (H241382-04)

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	03/20/2024	ND	2.12	106	2.00	2.54	
Toluene*	<0.050	0.050	03/20/2024	ND	2.15	107	2.00	7.48	
Ethylbenzene*	<0.050	0.050	03/20/2024	ND	2.19	109	2.00	11.2	
Total Xylenes*	<0.150	0.150	03/20/2024	ND	6.50	108	6.00	11.8	
Total BTEX	<0.300	0.300	03/20/2024	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	03/19/2024	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	03/19/2024	ND	207	104	200	19.2	
DRO >C10-C28*	<10.0	10.0	03/19/2024	ND	207	104	200	15.6	
EXT DRO >C28-C36	<10.0	10.0	03/19/2024	ND					

Surrogate: 1-Chlorooctane *78.0 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *83.1 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	03/18/2024	Sampling Date:	03/18/2024
Reported:	03/22/2024	Sampling Type:	Soil
Project Name:	PLU 409	Sampling Condition:	Cool & Intact
Project Number:	031558114	Sample Received By:	Tamara Oldaker
Project Location:	XTO (32.197077-103.772442)		

Sample ID: SW 14 0-4' (H241382-05)

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	03/20/2024	ND	2.12	106	2.00	2.54	
Toluene*	<0.050	0.050	03/20/2024	ND	2.15	107	2.00	7.48	
Ethylbenzene*	<0.050	0.050	03/20/2024	ND	2.19	109	2.00	11.2	
Total Xylenes*	<0.150	0.150	03/20/2024	ND	6.50	108	6.00	11.8	
Total BTEX	<0.300	0.300	03/20/2024	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**176**	16.0	03/19/2024	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	03/19/2024	ND	207	104	200	19.2	
DRO >C10-C28*	<10.0	10.0	03/19/2024	ND	207	104	200	15.6	
EXT DRO >C28-C36	<10.0	10.0	03/19/2024	ND					

Surrogate: 1-Chlorooctane *83.7 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *91.2 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Notes and Definitions

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

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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: Tacoma Morrissey
Address: 601 N. Marienfeld St. STE 400
City: Midland State: TX Zip: 79701
Phone #: 337-257-8307 Fax #:
Project #: 03155811H Project Owner: XTO *
Project Name: PLU 409
Project Location: 32.197077, -103.772442
Sampler Name: Kailee Smith

BILL TO
P.O. #:
Company: XTO Energy
Attn: Amy Ruth *
Address: 3104 E. Greene St
City: Carlsbad
State: NM Zip: 88220
Phone #:
Fax #:

FOR LAB USE ONLY					MATRIX							PRESERV.			SAMPLING		ANALYSIS REQUEST												
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	TPH	BTEX	Chlorides											
H241382																													
1	SW10	0-4	C	1			X					X		3-18-24	0834	X	X	X											
2	SW11	0-4	C	1			X					X		3-18-24	0836	X	X	X											
3	SW12	0-4	C	1			X					X		3-18-24	0839	X	X	X											
4	SW13	0-4	C	1			X					X		3-18-24	0840	X	X	X											
5	SW14	0-4	C	1			X					X		3-18-24	0842	X	X	X											
		NA																											

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: Date: 3-18-24 Time: 1305 Received By: Tamara Oldaker
Relinquished By: Date: Time: Received By:

Verbal Result: ☐ Yes ☐ No Add'l Phone #:
All Results are emailed. Please provide Email address:

REMARKS: Cost center 1140421001 * Added as per client. 3/22/24 CK

Delivered By: (Circle One) Sampler - UPS - Bus - Other:
Observed Temp. °C 30 Corrected Temp. °C
Sample Condition: Cool ☑ Yes ☐ No Intact ☑ Yes ☐ No
CHECKED BY: (Initials) TO

Turnaround Time: Standard ☑ Rush ☐
Thermometer ID #113 #140 Correction Factor -0.5°C CO. 3/18/24
Bacteria (only) Sample Condition: Cool ☐ Yes ☐ No Intact ☐ Yes ☐ No Observed Temp. °C Corrected Temp. °C

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

FORM-006 R 3.2 10/07/21

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

QUESTIONS

Action 362907

QUESTIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 362907
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2223751933**
Incident Name	**NAPP2223751933 POKER LAKE UNIT 409 @ 30-015-41136**
Incident Type	**Produced Water Release**
Incident Status	**Remediation Closure Report Received**
Incident Well	**[30-015-41136] POKER LAKE UNIT #409H**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	POKER LAKE UNIT 409
Date Release Discovered	08/11/2022
Surface Owner	Federal

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	Cause: Human Error | Valve | Crude Oil | Released: 100 BBL | Recovered: 95 BBL | Lost: 5 BBL.
Produced Water Released (bbls) Details	Cause: Human Error | Valve | Produced Water | Released: 205 BBL | Recovered: 195 BBL | Lost: 10 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	*Not answered.*
Natural Gas Vented (Mcf) Details	*Not answered.*
Natural Gas Flared (Mcf) Details	*Not answered.*
Other Released Details	*Not answered.*
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	*Not answered.*

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Phone:(505) 334-6178 Fax:(505) 334-6170
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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

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 362907
	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.**
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response	
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.	
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	*Not answered.*
Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.	

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

I hereby agree and sign off to the above statement	Name: Alan Romero Title: Regulatory Analyst Email: alan.romero1@exxonmobil.com Date: 07/10/2024

District I
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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

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 362907
	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 100 and 500 (ft.)
What method was used to determine the depth to ground water	Direct Measurement
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 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 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 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Between 1 and 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

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)	10300
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	581
GRO+DRO (EPA SW-846 Method 8015M)	581
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	09/23/2022
On what date will (or did) the final sampling or liner inspection occur	02/14/2024
On what date will (or was) the remediation complete(d)	02/14/2024
What is the estimated surface area (in square feet) that will be reclaimed	715
What is the estimated volume (in cubic yards) that will be reclaimed	105
What is the estimated surface area (in square feet) that will be remediated	10500
What is the estimated volume (in cubic yards) that will be remediated	1620
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 (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 362907
	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	HALFWAY DISPOSAL AND LANDFILL [fEEM0112334510]
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)	*Not answered.*
(In Situ) Soil Vapor Extraction	*Not answered.*
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	*Not answered.*
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	*Not answered.*
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	*Not answered.*
Ground Water Abatement pursuant to 19.15.30 NMAC	*Not answered.*
OTHER (Non-listed remedial process)	*Not answered.*
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: Alan Romero Title: Regulatory Analyst Email: alan.romero1@exxonmobil.com Date: 07/10/2024
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 (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 362907
	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 (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 362907
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	**323171**
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	**03/18/2024**
What was the (estimated) number of samples that were to be gathered	**20**
What was the sampling surface area in square feet	**2000**

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	10500
What was the total volume (cubic yards) remediated	1620
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	715
What was the total volume (in cubic yards) reclaimed	105
Summarize any additional remediation activities not included by answers (above)	Excavation activities were conducted at the Site to address the August 11, 2022, release of crude oil and produced water. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated that all COC concentrations were compliant with the Site Closure Criteria and compliant with the reclamation requirement applied to the top four feet of the subsurface in the pasture. Based on the soil sample analytical results, no further remediation was required. XTO will backfill the excavation with material purchased locally and recontour the Site to match pre-existing site conditions. The disturbed pasture area will be re-seeded with an approved BLM seed mixture.

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: Alan Romero Title: Regulatory Analyst Email: alan.romero1@exxonmobil.com Date: 07/10/2024

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QUESTIONS (continued)

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	Action Number: 362907
	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

Operator:	OGRID:
XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	5380
	Action Number: 362907
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
crystal.walker	Operator failed to provide proper Sampling Notification pursuant to 19.15.29.12.D.(1).(a) NMAC. Failure to provide proper sampling notice is a compliance issue and OCD may pursue compliance actions pursuant to 19.15.5 NMAC. Operator shall ensure future compliance with 19.15.29.12.D.(1).(a) NMAC	7/16/2024
crystal.walker	Closure Report Approved. Please be sure to provide Sampling Notification for ALL Confirmation Sampling pursuant to the regulations.	7/16/2024