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

State of New Mexico
Energy Minerals and Natural Resources Department

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

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

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party XTO Energy	OGRID 5380
Contact Name Garrett Green	Contact Telephone 575-200-0729
Contact email garrett.green@exxonmobil.com	Incident # *(assigned by OCD)*
Contact mailing address 3104 E. Greene Street, Carlsbad, New Mexico, 88220	

Location of Release Source

Latitude 32.21054 Longitude -103.87116
(NAD 83 in decimal degrees to 5 decimal places)

Site Name PLU 22 Dog Town Draw Pad B	Site Type Well Pad
Date Release Discovered 08/06/2023	API# *(if applicable)*

Unit Letter	Section	Township	Range	County
C	22	24S	30E	Eddy

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (*Name:* _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) 86.23	Volume Recovered (bbls) 85.00
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	☒ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: Due to a communication failure between operators, water transfer continued when the stage was complete resulting in an overflow of the silos. A total of 86.23 bbls were released and a total of 85 bbls were recovered. A third-party contractor has been retained for remediation purposes.

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? A release equal to or greater than 25 barrels.

If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
Yes, by Melanie Collins to ocd.enviro@emnrd.nm.gov, Robert.Hamlet@emnrd.nm.gov, Jocelyn.Harimon@emnrd.nm.gov, and mike.bratcher@emnrd.nm.gov on 08/07/2023 via email.

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.
- ☒ The impacted area has been secured to protect human health and the environment.
- ☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
- ☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:
NA

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Garrett Green
Title: SSHE Coordinator
Signature: 
Date: 8/15/2023
email: garrett.green@exxonmobil.com
Telephone: 575-200-0729

OCD Only

Received by:
Date:

Location:	PLU 22 Dog Town Draw	
Spill Date:	8/6/2023	
Area 1		
Approximate Area =	442.00	sq. ft.
Average Saturation (or depth) of spill =	1.25	inches
Average Porosity Factor =	0.15	
VOLUME OF LEAK		
Total Crude Oil =	86.23	bbls
Total Produced Water =	0.00	bbls
TOTAL VOLUME OF LEAK		
Total Crude Oil =	**86.23**	**bbls**
Total Produced Water =	**0.00**	**bbls**
TOTAL VOLUME RECOVERED		
Total Crude Oil =	**85.00**	**bbls**
Total Produced Water =	**0.00**	**bbls**

ENSOLUM

January 31, 2024

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

Re: Closure Request
PLU 22 Dog Town Draw Pad B
Incident Number nAPP2322752841
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 PLU 22 Dog Town Draw Pad B (Site). The purpose of the site assessment, excavation, and soil sampling activities was to address impacts to soil following a release of produced water at the Site. Based on excavation activities and soil sample laboratory analytical results, XTO is submitting this *Closure Request*, describing remediation that has occurred and requesting no further remediation for Incident Number nAPP2322752841. Reclamation and revegetation activities will be completed during pad abandonment.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit C, Section 22, Township 24 South, Range 30 East, in Eddy County, New Mexico (32.21054°, -103.87116°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On August 6, 2023, a communication error caused a produced water transfer operation to overflow the silos, resulting in the release of approximately 86.23 barrels (bbls) of produced water into a temporary lined containment and onto the surface of the well pad. A vacuum truck was immediately dispatched to recover free-standing fluids; approximately 85.0 bbls of released fluids were recovered. XTO immediately reported the release to the New Mexico Oil Conservation Division (NMOCD) via email and subsequently submitted a Release Notification Form C-141 (Form C-141) on August 15, 2023. The release was assigned Incident Number nAPP2322752841.

Following the release, XTO personnel were able to utilize a handheld Global Positioning System (GPS) unit to map out the temporary lined containment area before the containment was removed.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess the applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented on page 5 of the Form C-141, Site Assessment/Characterization.

Depth to groundwater at the Site is greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is the New Mexico Office of the State Engineer (NMOSE) well C-03893, located approximately 0.75 miles west of the Site. The groundwater well has a reported total depth of 600 feet bgs drilled via mud rotary. The borehole was drilled in August 2015 and no groundwater was encountered. The Well Record and Log is included in Appendix A. All wells used to determine depth to groundwater are depicted on Figure 1.

The closest continuously flowing or significant watercourse to the Site is a dry wash, located approximately 2,222 feet northeast of the Site. The Site is greater than 200 feet from any 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 from any 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). Potential Site receptors are identified on Figure 1.

Due to the nearest depth to groundwater data exceeding a distance of 0.5 miles from the Site, a guideline enforced by NMOCD, the following Table I Closure Criteria (Closure Criteria) apply:

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

SITE ASSESSMENT ACTIVITIES

Ensolum personnel could not safely access the Site due to the XTO hydraulic fracturing and flowback operations. Following the completion of on-site operations, Ensolum personnel visited the Site on December 12, 2023 to evaluate the release extent based on information provided on the Form C-141, information provided by XTO, and visual observations. Photographic documentation was conducted during the Site assessment and is included in a Photographic Log in Appendix B.

DELINEATION AND EXCAVATION SOIL SAMPLING ACTIVITIES

Following a cleared one call utility locate request, Ensolum returned to the Site on December 18, 2023, to oversee delineation and excavation activities. Four potholes (PH01 through PH04) were advanced to assess the vertical extent of the release. One pothole (PH05) was advanced within the location of the temporary lined containment, which had subsequently been removed, to ensure fluids did not escape underneath the liner. All potholes were advanced by utilizing heavy equipment. Discrete soil samples were collected from each pothole at depths ranging from 0.5 feet bgs to 2 feet bgs. The delineation soil samples were field screened for volatile aromatic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. The release extent and delineation soil sample locations were mapped utilizing a handheld GPS unit and are depicted on Figure 2. Field screening results and observations for the potholes were logged on lithologic/soil sampling logs, which are included in Appendix C.

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 constituents of concern (COC): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-gasoline range organics (GRO), TPH-TPH-diesel range organics (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 equilibrated to the 6 degrees Celcius required for shippment and long term storage, but are considered to have been received in acceptable condition by the laboratory.

Impacted soil was excavated from the release area as indicated by field screening concentrations of delineation soil samples collected in potholes PH01 through PH04. Excavation activities were performed utilizing a backhoe and transport vehicles. The excavation occurred on the well pad. To direct excavation activities, soil was screened for VOCs and chloride.

Following removal of the impacted soil, 5-point composite soil samples were collected every 200 square feet from the floor and sidewalls of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Confirmation soil samples FS01 through FS03 were collected from the floor of the excavation at a depth of 1-foot bgs. Confirmation soil sample SW01 was collected from the sidewall of the excavation at depths ranging from the ground surface to a maximum of 1-foot bgs. All confirmation soil samples collected were analyzed for the same COCs described above. The excavation extent and excavation confirmation soil sample locations are presented on Figure 3. Photographic documentation of the excavation is included in Appendix B.

The final excavation extent measured approximately 550 square feet. A total of approximately 25 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was transported and properly disposed of at R360 Landfill Disposal Facility in Hobbs, New Mexico.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for delineation soil samples PH01 through PH03 collected at 0.5 feet bgs, and PH04 collected at 0.5 feet and 1-foot bgs indicated chloride concentrations exceeded the Closure Criteria, but these samples were subsequently removed during excavation activites. Laboratory analytical results from all other delineation soil samples collected indicated all COC concentrations were compliant with the Site Closure Criteria, including the samples collected from pothole PH05 in the area underlying the location of the temporary lined containment, and thus verifies the fluids did not escape underneath the liner.

Laboratory analytical results for all confirmation soil samples indicated all COC concentrations are compliant with the Closure Criteria and no impacted or waste-containing soil remains in place. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included in Appendix D.

CLOSURE REQUEST

Site assessment, delineation, and excavation activities were conducted at the Site to address the August 6, 2023, release of produced water. Laboratory analytical results for confirmation soil samples collected from the final excavation extent indicated all COC concentrations were compliant with the Closure Criteria. Based on laboratory analytical results, no further remediation is required. Furthermore, since soil concentrations meet the reclamation requirement, no additional excavation will be needed at the time of pad abandonment or major facility reconstruction. Following pad abandonment or major facility reconstruction, the work area will be reseeded with the recommended BLM seed mixture. The

excavation was backfilled on December 21, 2023, with caliche material purchased locally and the area was recontoured to match pre-existing Site conditions. Photographic documentation of the backfill is included in Appendix B. Excavation of soil has mitigated impacts at this Site. XTO believes these remedial actions are protective of human health, the environment, and groundwater. As such, XTO respectfully requests closure for Incident Number nAPP2322752841.

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

Sincerely,
Ensolum, LLC

Benjamin J. Belill
Senior Geologist

Ashley L. Ager, M.S., P.G.
Principal

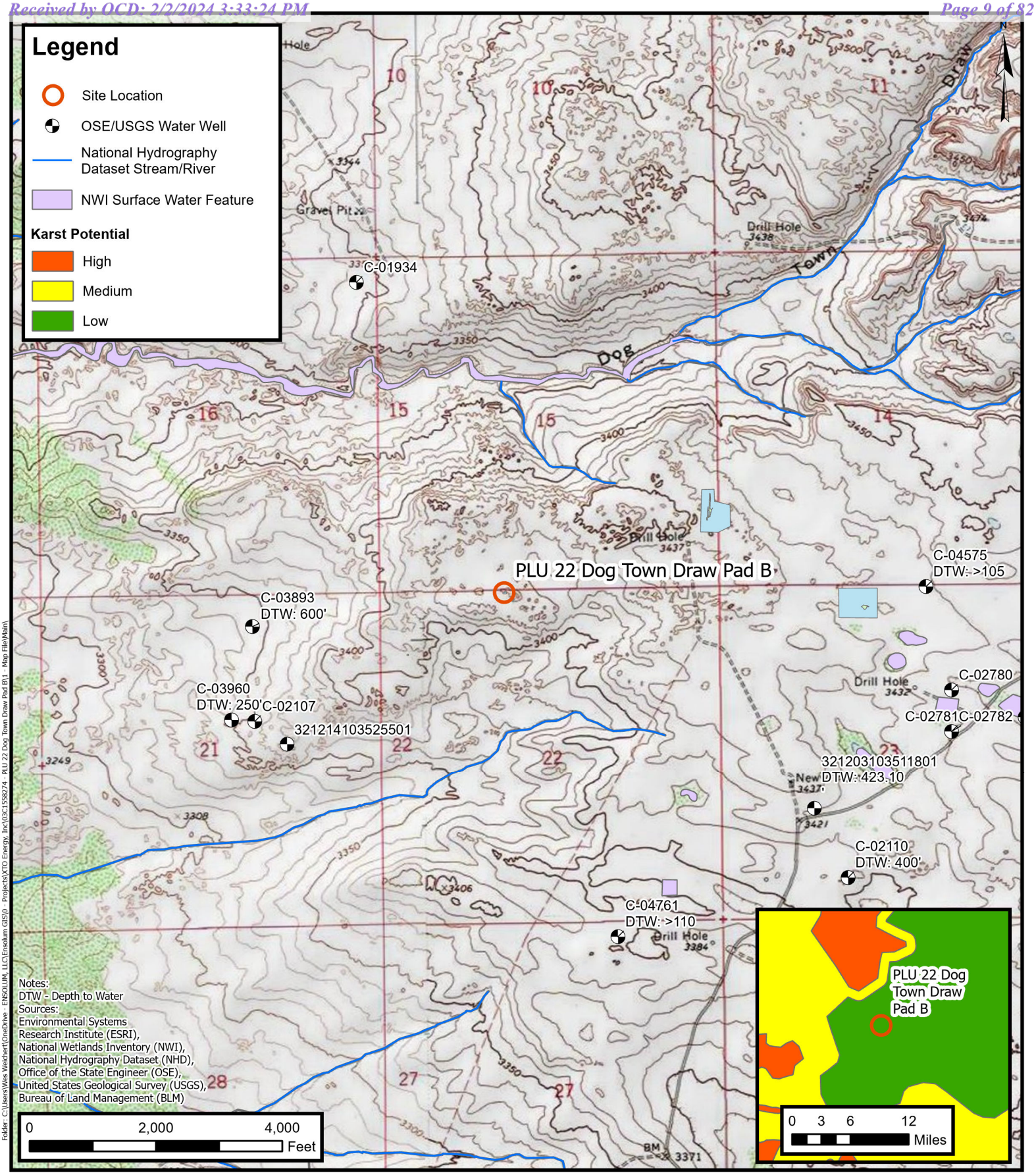
cc: Garrett Green, XTO
Tommee Lambert, XTO
Bureau of Land Management

Appendices:

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

ENSOLUM

FIGURES



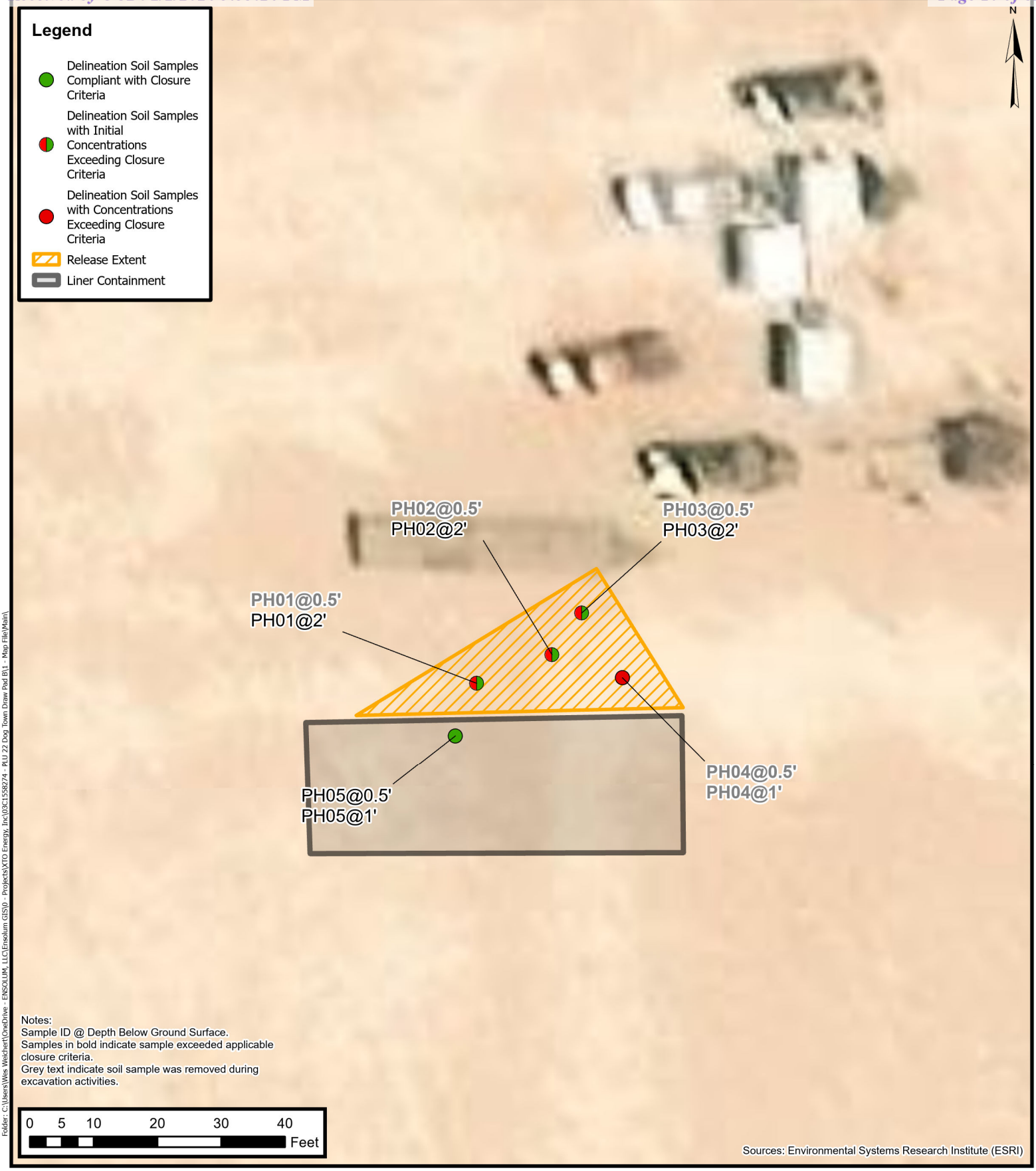
ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

Site Receptor Map

XTO Energy, Inc
PLU 22 Dog Town Draw Pad B
Incident Number: nAPP2322752841
Unit C, Sec 22, T24S, R30E
Eddy Co, New Mexico, United States

FIGURE 1

Folder: C:\Users\Wes Weichert\OneDrive - ENSOLUM, LLC\Ensolum GIS\0 - Projects\XTO Energy, Inc\03C1538274 - PLU 22 Dog Town Draw Pad B\1 - Map File\Main\



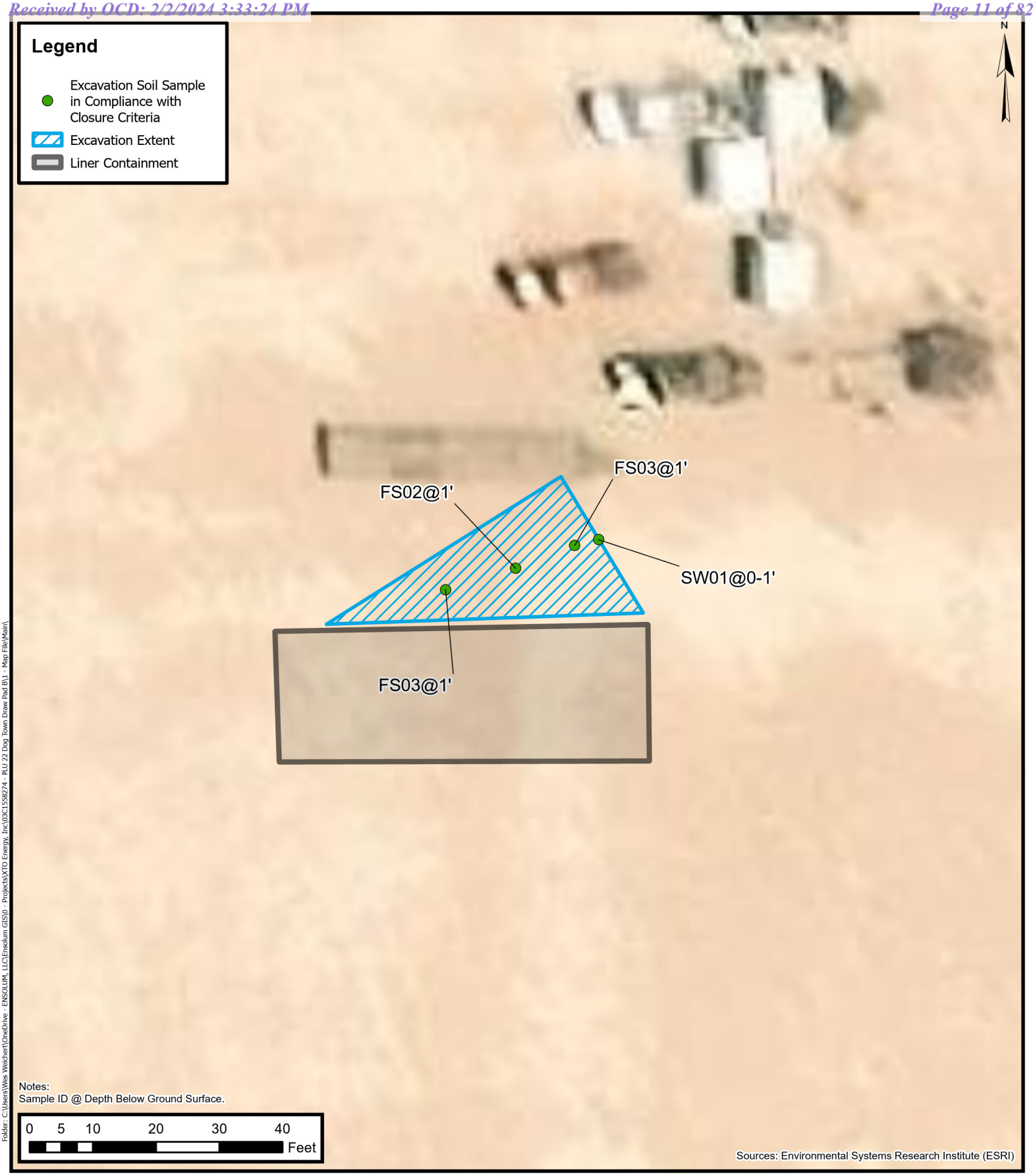
Folder: C:\Users\Wes Weichert\OneDrive - ENSOLUM, LLC\Ensolum GIS\0 - Projects\XTO Energy, Inc\03C1538274 - PLU 22 Dog Town Draw Pad B\1 - Map File\Main\

ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

Delineation Soil Sample Locations

XTO Energy, Inc
PLU 22 Dog Town Draw Pad B
Incident Number: nAPP2322752841
Unit C, Sec 22, T24S, R30E
Eddy Co, New Mexico, United States

FIGURE 2



Folder: C:\Users\Wes Welchert\OneDrive - ENSOLUM, LLC\Ensolum GIS\0 - Projects\XTO Energy, Inc\03C1538274 - PLU 22 Dog Town Draw Pad B\1 - Map File\Main\

ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

Excavation Soil Sample Locations

XTO Energy, Inc
PLU 22 Dog Town Draw Pad B
Incident Number: nAPP2322752841
Unit C, Sec 22, T24S, R30E
Eddy Co, New Mexico, United States

FIGURE 3

ENSOLUM

TABLES

ENSOLUM

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
PLU 22 Dog Town Draw Pad B
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	NE	100	600
Delineation Soil Samples										
~~PH01~~	~~12/18/2023~~	~~0.5~~	~~<0.00198~~	~~<0.00396~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~**1,650**~~
PH01	12/18/2023	2	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	20.5
~~PH02~~	~~12/18/2023~~	~~0.5~~	~~<0.00201~~	~~<0.00402~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~**2,600**~~
PH02	12/18/2023	2	<0.00202	<0.00404	<49.6	<49.6	<49.6	<49.6	<49.6	19.9
~~PH03~~	~~12/18/2023~~	~~0.5~~	~~<0.00202~~	~~<0.00403~~	~~<49.7~~	~~<49.7~~	~~<49.7~~	~~<49.7~~	~~<49.7~~	~~**1,500**~~
PH03	12/18/2023	2	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	11.7
~~PH04~~	~~12/18/2023~~	~~0.5~~	~~<0.00200~~	~~<0.00399~~	~~<50.5~~	~~67.6~~	~~<50.5~~	~~67.6~~	~~67.6~~	~~**3,430**~~
~~PH04~~	~~12/18/2023~~	~~1~~	~~<0.00198~~	~~<0.00397~~	~~<50.1~~	~~<50.1~~	~~<50.1~~	~~<50.1~~	~~<50.1~~	~~**644**~~
PH05	12/18/2023	0.5	<0.00201	<0.00402	<49.8	57.9	<49.8	57.9	57.9	569
PH05	12/18/2023	1	<0.00201	<0.00402	<49.7	<49.7	<49.7	<49.7	<49.7	20.6
Confirmation Soil Samples										
FS01	12/18/2023	1	<0.00199	<0.00398	<49.7	<49.7	<49.7	<49.7	<49.7	20.0
FS02	12/18/2023	1	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	7.26
FS03	12/18/2023	1	<0.00199	<0.00398	<49.6	<49.6	<49.6	<49.6	<49.6	10.1
SW01	12/18/2023	0 - 1	<0.00199	<0.00398	<50.3	<50.3	<50.3	<50.3	<50.3	8.99

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or reclamation 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

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 NUMBER (WELL NUMBER): PLU Lease CP Bed	OSE FILE NUMBER(S): C-3893
WELL OWNER NAME(S): BOPCO, L.P.	PHONE (OPTIONAL):
WELL OWNER MAILING ADDRESS: 201 MAIN STREET	CITY: FORT WORTH STATE: TX ZIP: 76102

WELL LOCATION (FROM GPS)	DEGREES	MINUTES	SECONDS	
LATITUDE	32	12	32.88	N
LONGITUDE	103	53	2.88	W

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

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

SE 1/4 OF NW 1/4 OF NW 1/4 OF NE 1/4 OF SECTION 21, TOWNSHIP 24S, RANGE 30E

2. DRILLING & CASING INFORMATION

LICENSE NUMBER	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
WD-1261	R. DARRELL CRASS	DARRELL CRASS DRILLING COMPANY

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
8/19/15	8/26/15	600	600	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: SUPER GEL X

DRILLING METHOD: (•) ROTARY ( ) HAMMER ( ) CABLE TOOL ( ) OTHER – SPECIFY:

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	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
0	40	8"	SCH 40 PVC BLANK	GLUE, SCREWS	8"		

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
10	425	8"	BENTONITE HOLE PLUG	145 CUBIC FEET	POUR
0	10	8"	PORTLAND CEMENT	7 CUBIC FEET	POUR

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 06/08/2012)

FILE NUMBER	C-3893	POD NUMBER	1	TRN NUMBER	571438
LOCATION	2-1-1 24S.30E.21				PAGE 1 OF 2

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	5	5	TOPSOIL	○ Y ◉ N	
5	75	70	SAND	○ Y ◉ N	
75	90	15	CLAY	○ Y ◉ N	
90	100	10	SANDSTONE	○ Y ◉ N	
100	180	80	SANDY CLAY	○ Y ◉ N	
180	240	60	SAND	○ Y ◉ N	
240	280	40	SAND & GRAVEL	○ Y ◉ N	
280	400	120	SANDY CLAY	○ Y ◉ N	
400	520	120	SAND	○ Y ◉ N	
520	600	80	SANDY CLAY	○ Y ◉ N	
				○ 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): N/A

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:
THIS IS THE WELL LOG FOR A CATHODIC PROTECTION GROUNDBED

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

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 20 DAYS AFTER COMPLETION OF WELL DRILLING:

R Darrell Cass — SIGNATURE OF DRILLER / PRINT SIGNEE NAME

8.27.15 — DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 06/08/2012)

FILE NUMBER	C-3893	POD NUMBER	1	TRN NUMBER	571438
LOCATION	24S.30E.21 2-1-1				PAGE 2 OF 2

ENSOLUM

APPENDIX B

Photographic Log

ENSOLUM

Photographic Log
XTO Energy, Inc
PLU 22 Dog Town Draw Pad B
Incident Number nAPP2322752841

Photograph 1 Date: 12/12/2023
Description: Site assessment activities, release area.
View: Southwest

Photograph 2 Date: 12/18//2023
Description: Excavation activities.
View: Northwest

Photograph 3 Date: 12/18/2023
Description: Final excavation extent.
View: Southwest

Photograph 4 Date: 12/21/2023
Description: Excavation backfilled.
View: Northwest

ENSOLUM

APPENDIX C

Lithologic Soil Sampling Logs

ENSOLUM

Sample Name: PH01	Date: 12/18/2023
Site Name: PLU 22 Dog Town Draw Pad B	
Incident Number: nAPP2322752841	
Job Number: 03C1558274	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: SW / Method: Backhoe
Coordinates: 32.210521, -103.871220	Hole Diameter: ~2' / Total Depth: 2'

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.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
M	896	0.0	N	PH01	0.5	0	CCHE	0-1', CALICHE, moist, light brown-tan, no stain, no odor, fill.
M	<162	0.0	N			1	SP	1'-2', SAND, moist, reddish brown, fine-very fine grained, poorly graded, no stain, no odor.
M	<162	0.0	N	PH01	2	2	TD	Total depth at 2 feet bgs.
						3		
						4		
						5		
						6		
						7		
						8		
						9		
						10		
						11		
						12		

ENSOLUM

Sample Name: PH02	Date: 12/18/2023
Site Name: PLU 22 Dog Town Draw Pad B	
Incident Number: nAPP2322752841	
Job Number: 03C1558274	

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: SW	Method: Backhoe
Coordinates: 32.210532, -103.871185	Hole Diameter: ~2'
	Total Depth: 2'

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.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
M	2,597	0.0	N	PH02	0.5	0	CCHE	0-1', CALICHE, moist, light brown-tan, no stain, no odor, fill.
M	<162	0.0	N			1	SP	1'-2', SAND, moist, reddish brown, fine-very fine grained, poorly graded, no stain, no odor.
M	<162	0.0	N	PH02	2	2	TD	Total depth at 2 feet bgs.
						3		
						4		
						5		
						6		
						7		
						8		
						9		
						10		
						11		
						12		

ENSOLUM

Sample Name: PH03	Date: 12/18/2023	
Site Name: PLU 22 Dog Town Draw Pad B		
Incident Number: nAPP2322752841		
Job Number: 03C1558274		
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: SW	Method: Backhoe
Coordinates: 32.210552, -103.871168	Hole Diameter: ~2'	Total Depth: 2'

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.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
M	1,061	0.0	N	PH03	0.5	0	CCHE	0-1', CALICHE, moist, light brown-tan, no stain, no odor, fill.
M	<162	0.0	N			1	SP	1'-2', SAND, moist, reddish brown, fine-very fine grained, poorly graded, no stain, no odor.
M	<162	0.0	N	PH03	2	2	TD	Total depth at 2 feet bgs.
						3		
						4		
						5		
						6		
						7		
						8		
						9		
						10		
						11		
						12		

ENSOLUM

	Sample Name: PH04	Date: 12/18/2023
	Site Name: PLU 22 Dog Town Draw Pad B	
	Incident Number: nAPP2322752841	
	Job Number: 03C1558274	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: SW	Method: Backhoe
Coordinates: 32.210523, -103.871147	Hole Diameter: ~2'	Total Depth: 1'

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.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
M	896	0.0	N	PH04	0.5	0	CCHE	0-1', CALICHE, moist, light brown-tan, no stain, no odor, fill.
M	246	0.0	N	PH04	1	1	TD	Total depth at 1-foot bgs.
						2		
						3		
						4		
						5		
						6		
						7		
						8		
						9		
						10		
						11		
						12		

ENSOLUM

	Sample Name: PH05	Date: 12/18/2023
	Site Name: PLU 22 Dog Town Draw Pad B	
	Incident Number: nAPP2322752841	
	Job Number: 03C1558274	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: SW	Method: Backhoe
Coordinates: 32.210499, -103.871232	Hole Diameter: ~2'	Total Depth: 1'

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.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
M	<162	0.0	N	PH05	0.5	0	CCHE	0-1', CALICHE, moist, light brown-tan, no stain, no odor, fill.
M	<162	0.0	N	PH05	1	1	TD	Total depth at 1-foot bgs.
						2		
						3		
						4		
						5		
						6		
						7		
						8		
						9		
						10		
						11		
						12		

ENSOLUM

APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 1/19/2024 4:26:56 PM Revision 2

JOB DESCRIPTION

PLU 22 Dog Town Draw Pad B
03C1558274

JOB NUMBER

890-5817-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

my EOL

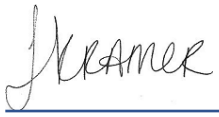
Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

Authorization



Generated
1/19/2024 4:26:56 PM
Revision 2

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

Client: Ensolum
Project/Site: PLU 22 Dog Town Draw Pad B

Laboratory Job ID: 890-5817-1
SDG: 03C1558274

Table of Contents

Definitions/Glossary

Client: Ensolum
Project/Site: PLU 22 Dog Town Draw Pad B

Job ID: 890-5817-1
SDG: 03C1558274

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low 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.
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
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)
TNTC	Too Numerous To Count

Case Narrative

Client: Ensolum Job ID: 890-5817-1
Project: PLU 22 Dog Town Draw Pad B

Job ID: 890-5817-1 **Eurofins Carlsbad**

Job Narrative
890-5817-1

REVISION

The report being provided is a revision of the original report sent on 12/27/2023. The report (revision 2) is being revised due to Per client email, requesting sample depth correction.

Report revision history
Revision 1 - 1/3/2024 - Reason - Per client email, requesting TPH re runs..

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 12/19/2023 8:10 AM. 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 0.0°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: PH01 (890-5817-1), PH01 (890-5817-2), PH02 (890-5817-3), PH02 (890-5817-4), PH03 (890-5817-5), PH03 (890-5817-6), PH04 (890-5817-7), PH04 (890-5817-8), PH05 (890-5817-9), PH05 (890-5817-10), FS01 (890-5817-11), FS02 (890-5817-12), FS03 (890-5817-13) and SW01 (890-5817-14).

GC VOA
Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-69290 and analytical batch 880-69481 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: CCV was biased low for benzene and toluene. However, another CCV was analyzed and acceptable within a 12 hour window; therefore, the data was qualified and reported.

(CCV 880-69441/20)

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-69485 and analytical batch 880-69441 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: Surrogate recovery for the following samples were outside control limits: PH01 (890-5817-2) and (MB 880-69440/5-A). Evidence of matrix interferences is not obvious.

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

GC Semi VOA
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-69486 and analytical batch 880-69505 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: PH01 (890-5817-1), PH02 (890-5817-3), PH02 (890-5817-4), PH03 (890-5817-5), PH03 (890-5817-6), PH04 (890-5817-7), PH04 (890-5817-8), PH05

Case Narrative

Client: Ensolum Job ID: 890-5817-1
Project: PLU 22 Dog Town Draw Pad B

Job ID: 890-5817-1 (Continued) Eurofins Carlsbad

(890-5817-9), PH05 (890-5817-10), FS01 (890-5817-11), FS02 (890-5817-12), FS03 (890-5817-13), SW01 (890-5817-14), (890-5819-A-1-D MS) and (890-5819-A-1-E MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-69486 and analytical batch 880-69505 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: (890-5847-A-2-C), (890-5847-A-2-D MS) and (890-5847-A-2-E MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The method blank for preparation batch 880-69977 and analytical batch 880-70001 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 880-70027 and analytical batch 880-70003 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.

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: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-69433 and 880-69433 and analytical batch 880-69490 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: PLU 22 Dog Town Draw Pad B

Job ID: 890-5817-1
SDG: 03C1558274

Client Sample ID: PH01
Date Collected: 12/18/23 09:20
Date Received: 12/19/23 08:10
Sample Depth: 0.5

Lab Sample ID: 890-5817-1
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U F1	0.00198		mg/Kg		12/20/23 14:27	12/21/23 02:13	1
Toluene	<0.00198	U	0.00198		mg/Kg		12/20/23 14:27	12/21/23 02:13	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		12/20/23 14:27	12/21/23 02:13	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		12/20/23 14:27	12/21/23 02:13	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		12/20/23 14:27	12/21/23 02:13	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		12/20/23 14:27	12/21/23 02:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*	*12/20/23 14:27*	*12/21/23 02:13*	*1*
1,4-Difluorobenzene (Surr)	*70*		*70 - 130*	*12/20/23 14:27*	*12/21/23 02:13*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			12/21/23 02:13	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			12/21/23 13:00	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	<50.0	U	50.0		mg/Kg		12/20/23 14:31	12/21/23 13:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/20/23 14:31	12/21/23 13:00	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/20/23 14:31	12/21/23 13:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*164*	*S1+*	*70 - 130*	*12/20/23 14:31*	*12/21/23 13:00*	*1*
o-Terphenyl	*140*	*S1+*	*70 - 130*	*12/20/23 14:31*	*12/21/23 13:00*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1650**		25.3		mg/Kg			12/21/23 08:52	5

Client Sample ID: PH01
Date Collected: 12/18/23 09:30
Date Received: 12/19/23 08:10
Sample Depth: 2

Lab Sample ID: 890-5817-2
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		12/20/23 14:27	12/21/23 02:33	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/20/23 14:27	12/21/23 02:33	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/20/23 14:27	12/21/23 02:33	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/20/23 14:27	12/21/23 02:33	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/20/23 14:27	12/21/23 02:33	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/20/23 14:27	12/21/23 02:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*12/20/23 14:27*	*12/21/23 02:33*	*1*

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: PLU 22 Dog Town Draw Pad B

Job ID: 890-5817-1
SDG: 03C1558274

Client Sample ID: PH01

Date Collected: 12/18/23 09:30
Date Received: 12/19/23 08:10
Sample Depth: 2

Lab Sample ID: 890-5817-2
Matrix: Solid

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*54*	*S1-*	*70 - 130*	*12/20/23 14:27*	*12/21/23 02:33*	*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			12/21/23 02:33	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/21/23 13:21	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/20/23 14:31	12/21/23 13:21	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/20/23 14:31	12/21/23 13:21	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/20/23 14:31	12/21/23 13:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*121*		*70 - 130*	*12/20/23 14:31*	*12/21/23 13:21*	*1*
o-Terphenyl	*104*		*70 - 130*	*12/20/23 14:31*	*12/21/23 13:21*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**20.5**		5.05	mg/Kg			12/21/23 08:59	1

Client Sample ID: PH02

Date Collected: 12/18/23 09:40
Date Received: 12/19/23 08:10
Sample Depth: 0.5

Lab Sample ID: 890-5817-3
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		12/20/23 14:27	12/21/23 02:54	1
Toluene	<0.00201	U	0.00201	mg/Kg		12/20/23 14:27	12/21/23 02:54	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		12/20/23 14:27	12/21/23 02:54	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		12/20/23 14:27	12/21/23 02:54	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		12/20/23 14:27	12/21/23 02:54	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		12/20/23 14:27	12/21/23 02:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*82*		*70 - 130*	*12/20/23 14:27*	*12/21/23 02:54*	*1*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*	*12/20/23 14:27*	*12/21/23 02:54*	*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			12/21/23 02:54	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			12/21/23 13:43	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: PLU 22 Dog Town Draw Pad B

Job ID: 890-5817-1
SDG: 03C1558274

Client Sample ID: PH02
Date Collected: 12/18/23 09:40
Date Received: 12/19/23 08:10
Sample Depth: 0.5

Lab Sample ID: 890-5817-3
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/20/23 14:31	12/21/23 13:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/20/23 14:31	12/21/23 13:43	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/20/23 14:31	12/21/23 13:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*167*	*S1+*	*70 - 130*	*12/20/23 14:31*	*12/21/23 13:43*	*1*
o-Terphenyl	*142*	*S1+*	*70 - 130*	*12/20/23 14:31*	*12/21/23 13:43*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2600**		25.1		mg/Kg			12/21/23 09:05	5

Client Sample ID: PH02
Date Collected: 12/18/23 09:45
Date Received: 12/19/23 08:10
Sample Depth: 2

Lab Sample ID: 890-5817-4
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		12/20/23 14:27	12/21/23 03:14	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/20/23 14:27	12/21/23 03:14	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/20/23 14:27	12/21/23 03:14	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		12/20/23 14:27	12/21/23 03:14	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/20/23 14:27	12/21/23 03:14	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		12/20/23 14:27	12/21/23 03:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*75*		*70 - 130*	*12/20/23 14:27*	*12/21/23 03:14*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*12/20/23 14:27*	*12/21/23 03:14*	*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			12/21/23 03:14	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			12/21/23 14:05	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		12/20/23 14:31	12/21/23 14:05	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		12/20/23 14:31	12/21/23 14:05	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		12/20/23 14:31	12/21/23 14:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*169*	*S1+*	*70 - 130*	*12/20/23 14:31*	*12/21/23 14:05*	*1*
o-Terphenyl	*140*	*S1+*	*70 - 130*	*12/20/23 14:31*	*12/21/23 14:05*	*1*

Client Sample Results

Client: Ensolum
Project/Site: PLU 22 Dog Town Draw Pad B

Job ID: 890-5817-1
SDG: 03C1558274

Client Sample ID: PH02
Date Collected: 12/18/23 09:45
Date Received: 12/19/23 08:10
Sample Depth: 2

Lab Sample ID: 890-5817-4
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19.9		5.01		mg/Kg			12/21/23 09:25	1

Client Sample ID: PH03
Date Collected: 12/18/23 14:00
Date Received: 12/19/23 08:10
Sample Depth: 0.5

Lab Sample ID: 890-5817-5
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		12/20/23 14:27	12/21/23 03:34	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/20/23 14:27	12/21/23 03:34	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/20/23 14:27	12/21/23 03:34	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		12/20/23 14:27	12/21/23 03:34	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/20/23 14:27	12/21/23 03:34	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		12/20/23 14:27	12/21/23 03:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*79*		*70 - 130*	*12/20/23 14:27*	*12/21/23 03:34*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*12/20/23 14:27*	*12/21/23 03:34*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			12/21/23 03:34	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			12/21/23 14:27	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	<49.7	U	49.7		mg/Kg		12/20/23 14:31	12/21/23 14:27	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		12/20/23 14:31	12/21/23 14:27	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		12/20/23 14:31	12/21/23 14:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*172*	*S1+*	*70 - 130*	*12/20/23 14:31*	*12/21/23 14:27*	*1*
o-Terphenyl	*146*	*S1+*	*70 - 130*	*12/20/23 14:31*	*12/21/23 14:27*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1500		25.1		mg/Kg			12/21/23 09:32	5

Client Sample Results

Client: Ensolum
Project/Site: PLU 22 Dog Town Draw Pad B

Job ID: 890-5817-1
SDG: 03C1558274

Client Sample ID: PH03

Date Collected: 12/18/23 13:30
Date Received: 12/19/23 08:10
Sample Depth: 2

Lab Sample ID: 890-5817-6

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		12/20/23 14:27	12/21/23 03:55	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/20/23 14:27	12/21/23 03:55	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/20/23 14:27	12/21/23 03:55	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/20/23 14:27	12/21/23 03:55	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/20/23 14:27	12/21/23 03:55	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/20/23 14:27	12/21/23 03:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*12/20/23 14:27*	*12/21/23 03:55*	*1*
1,4-Difluorobenzene (Surr)	*73*		*70 - 130*	*12/20/23 14:27*	*12/21/23 03:55*	*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			12/21/23 03:55	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			12/21/23 14:48	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		12/20/23 14:31	12/21/23 14:48	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/20/23 14:31	12/21/23 14:48	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/20/23 14:31	12/21/23 14:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*171*	*S1+*	*70 - 130*	*12/20/23 14:31*	*12/21/23 14:48*	*1*
o-Terphenyl	*143*	*S1+*	*70 - 130*	*12/20/23 14:31*	*12/21/23 14:48*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**11.7**		4.99		mg/Kg			12/21/23 09:38	1

Client Sample ID: PH04

Date Collected: 12/18/23 14:05
Date Received: 12/19/23 08:10
Sample Depth: 0.5

Lab Sample ID: 890-5817-7

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		12/20/23 14:27	12/21/23 04:15	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/23 14:27	12/21/23 04:15	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/23 14:27	12/21/23 04:15	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/20/23 14:27	12/21/23 04:15	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/23 14:27	12/21/23 04:15	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/20/23 14:27	12/21/23 04:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*	*12/20/23 14:27*	*12/21/23 04:15*	*1*

Client Sample Results

Client: Ensolum
Project/Site: PLU 22 Dog Town Draw Pad B

Job ID: 890-5817-1
SDG: 03C1558274

Client Sample ID: PH04
Date Collected: 12/18/23 14:05
Date Received: 12/19/23 08:10
Sample Depth: 0.5

Lab Sample ID: 890-5817-7
Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*73*		*70 - 130*	*12/20/23 14:27*	*12/21/23 04:15*	*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			12/21/23 04:15	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**67.6**		50.5	mg/Kg			01/03/24 00:42	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		12/29/23 12:42	01/03/24 00:42	1
Diesel Range Organics (Over C10-C28)	**67.6**		50.5	mg/Kg		12/29/23 12:42	01/03/24 00:42	1
OII Range Organics (Over C28-C36)	<50.5	U	50.5	mg/Kg		12/29/23 12:42	01/03/24 00:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*128*		*70 - 130*	*12/29/23 12:42*	*01/03/24 00:42*	*1*
o-Terphenyl	*108*		*70 - 130*	*12/29/23 12:42*	*01/03/24 00:42*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3430**		24.8	mg/Kg			12/21/23 09:45	5

Client Sample ID: PH04
Date Collected: 12/18/23 13:40
Date Received: 12/19/23 08:10
Sample Depth: 1

Lab Sample ID: 890-5817-8
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		12/20/23 14:27	12/21/23 04:36	1
Toluene	<0.00198	U	0.00198	mg/Kg		12/20/23 14:27	12/21/23 04:36	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		12/20/23 14:27	12/21/23 04:36	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		12/20/23 14:27	12/21/23 04:36	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		12/20/23 14:27	12/21/23 04:36	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		12/20/23 14:27	12/21/23 04:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*	*12/20/23 14:27*	*12/21/23 04:36*	*1*
1,4-Difluorobenzene (Surr)	*72*		*70 - 130*	*12/20/23 14:27*	*12/21/23 04:36*	*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			12/21/23 04:36	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			12/21/23 15:32	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: PLU 22 Dog Town Draw Pad B

Job ID: 890-5817-1
SDG: 03C1558274

Client Sample ID: PH04

Date Collected: 12/18/23 13:40
Date Received: 12/19/23 08:10
Sample Depth: 1

Lab Sample ID: 890-5817-8
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	<50.1	U	50.1		mg/Kg		12/20/23 14:31	12/21/23 15:32	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		12/20/23 14:31	12/21/23 15:32	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		12/20/23 14:31	12/21/23 15:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*165*	*S1+*	*70 - 130*	*12/20/23 14:31*	*12/21/23 15:32*	*1*
o-Terphenyl	*138*	*S1+*	*70 - 130*	*12/20/23 14:31*	*12/21/23 15:32*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**644**		5.04		mg/Kg			12/21/23 09:51	1

Client Sample ID: PH05

Date Collected: 12/18/23 14:10
Date Received: 12/19/23 08:10
Sample Depth: 0.5

Lab Sample ID: 890-5817-9
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		12/20/23 14:27	12/21/23 04:56	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/20/23 14:27	12/21/23 04:56	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/20/23 14:27	12/21/23 04:56	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/20/23 14:27	12/21/23 04:56	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/20/23 14:27	12/21/23 04:56	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/20/23 14:27	12/21/23 04:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*	*12/20/23 14:27*	*12/21/23 04:56*	*1*
1,4-Difluorobenzene (Surr)	*72*		*70 - 130*	*12/20/23 14:27*	*12/21/23 04:56*	*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			12/21/23 04:56	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**57.9**		49.8		mg/Kg			01/03/24 04:42	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 H	49.8		mg/Kg		01/02/24 09:44	01/03/24 04:42	1
Diesel Range Organics (Over C10-C28)	**57.9**	**H**	49.8		mg/Kg		01/02/24 09:44	01/03/24 04:42	1
Oil Range Organics (Over C28-C36)	<49.8	U H	49.8		mg/Kg		01/02/24 09:44	01/03/24 04:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*70 - 130*	*01/02/24 09:44*	*01/03/24 04:42*	*1*
o-Terphenyl	*110*		*70 - 130*	*01/02/24 09:44*	*01/03/24 04:42*	*1*

Client Sample Results

Client: Ensolum
Project/Site: PLU 22 Dog Town Draw Pad B

Job ID: 890-5817-1
SDG: 03C1558274

Client Sample ID: PH05

Lab Sample ID: 890-5817-9
Matrix: Solid
Date Collected: 12/18/23 14:10
Date Received: 12/19/23 08:10
Sample Depth: 0.5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	569	F1	5.02		mg/Kg			12/21/23 09:58	1

Client Sample ID: PH05

Lab Sample ID: 890-5817-10
Matrix: Solid
Date Collected: 12/18/23 13:45
Date Received: 12/19/23 08:10
Sample Depth: 1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/20/23 14:27	12/21/23 05:17	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/20/23 14:27	12/21/23 05:17	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/20/23 14:27	12/21/23 05:17	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/20/23 14:27	12/21/23 05:17	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/20/23 14:27	12/21/23 05:17	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/20/23 14:27	12/21/23 05:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*79*		*70 - 130*	*12/20/23 14:27*	*12/21/23 05:17*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*12/20/23 14:27*	*12/21/23 05:17*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/21/23 05:17	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			12/21/23 16:37	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	<49.7	U	49.7		mg/Kg		12/20/23 14:31	12/21/23 16:37	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		12/20/23 14:31	12/21/23 16:37	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		12/20/23 14:31	12/21/23 16:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*174*	*S1+*	*70 - 130*	*12/20/23 14:31*	*12/21/23 16:37*	*1*
o-Terphenyl	*146*	*S1+*	*70 - 130*	*12/20/23 14:31*	*12/21/23 16:37*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20.6		4.97		mg/Kg			12/21/23 10:17	1

Client Sample Results

Client: Ensolum
Project/Site: PLU 22 Dog Town Draw Pad B

Job ID: 890-5817-1
SDG: 03C1558274

Client Sample ID: FS01
Date Collected: 12/18/23 12:35
Date Received: 12/19/23 08:10
Sample Depth: 1

Lab Sample ID: 890-5817-11
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		12/20/23 16:46	12/21/23 10:03	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/20/23 16:46	12/21/23 10:03	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/20/23 16:46	12/21/23 10:03	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/20/23 16:46	12/21/23 10:03	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/20/23 16:46	12/21/23 10:03	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/20/23 16:46	12/21/23 10:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*12/20/23 16:46*	*12/21/23 10:03*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*12/20/23 16:46*	*12/21/23 10:03*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/21/23 10:03	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			12/21/23 16:59	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	<49.7	U	49.7		mg/Kg		12/20/23 14:31	12/21/23 16:59	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		12/20/23 14:31	12/21/23 16:59	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		12/20/23 14:31	12/21/23 16:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*174*	*S1+*	*70 - 130*	*12/20/23 14:31*	*12/21/23 16:59*	*1*
o-Terphenyl	*146*	*S1+*	*70 - 130*	*12/20/23 14:31*	*12/21/23 16:59*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**20.0**		4.99		mg/Kg			12/21/23 10:24	1

Client Sample ID: FS02
Date Collected: 12/18/23 12:40
Date Received: 12/19/23 08:10
Sample Depth: 1

Lab Sample ID: 890-5817-12
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		12/20/23 16:46	12/21/23 10:24	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/23 16:46	12/21/23 10:24	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/23 16:46	12/21/23 10:24	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/20/23 16:46	12/21/23 10:24	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/23 16:46	12/21/23 10:24	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/20/23 16:46	12/21/23 10:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*12/20/23 16:46*	*12/21/23 10:24*	*1*

Client Sample Results

Client: Ensolum
Project/Site: PLU 22 Dog Town Draw Pad B

Job ID: 890-5817-1
SDG: 03C1558274

Client Sample ID: FS02

Date Collected: 12/18/23 12:40
Date Received: 12/19/23 08:10
Sample Depth: 1

Lab Sample ID: 890-5817-12
Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*12/20/23 16:46*	*12/21/23 10:24*	*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			12/21/23 10:24	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/21/23 17:20	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/20/23 14:31	12/21/23 17:20	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/20/23 14:31	12/21/23 17:20	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/20/23 14:31	12/21/23 17:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*209*	*S1+*	*70 - 130*	*12/20/23 14:31*	*12/21/23 17:20*	*1*
o-Terphenyl	*180*	*S1+*	*70 - 130*	*12/20/23 14:31*	*12/21/23 17:20*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7.26**		5.00	mg/Kg			12/21/23 10:43	1

Client Sample ID: FS03

Date Collected: 12/18/23 12:45
Date Received: 12/19/23 08:10
Sample Depth: 1

Lab Sample ID: 890-5817-13
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		12/20/23 16:46	12/21/23 10:44	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/20/23 16:46	12/21/23 10:44	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/20/23 16:46	12/21/23 10:44	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		12/20/23 16:46	12/21/23 10:44	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/20/23 16:46	12/21/23 10:44	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/20/23 16:46	12/21/23 10:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*12/20/23 16:46*	*12/21/23 10:44*	*1*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*	*12/20/23 16:46*	*12/21/23 10:44*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			12/21/23 10:44	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			12/21/23 17:41	1

Client Sample Results

Client: Ensolum
Project/Site: PLU 22 Dog Town Draw Pad B

Job ID: 890-5817-1
SDG: 03C1558274

Client Sample ID: FS03
Date Collected: 12/18/23 12:45
Date Received: 12/19/23 08:10
Sample Depth: 1

Lab Sample ID: 890-5817-13
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	<49.6	U	49.6		mg/Kg		12/20/23 14:31	12/21/23 17:41	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		12/20/23 14:31	12/21/23 17:41	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		12/20/23 14:31	12/21/23 17:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*184*	*S1+*	*70 - 130*	*12/20/23 14:31*	*12/21/23 17:41*	*1*
o-Terphenyl	*156*	*S1+*	*70 - 130*	*12/20/23 14:31*	*12/21/23 17:41*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**10.1**		4.97		mg/Kg			12/21/23 10:50	1

Client Sample ID: SW01
Date Collected: 12/18/23 12:50
Date Received: 12/19/23 08:10
Sample Depth: 0-1'

Lab Sample ID: 890-5817-14
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		12/20/23 16:46	12/21/23 11:05	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/20/23 16:46	12/21/23 11:05	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/20/23 16:46	12/21/23 11:05	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/20/23 16:46	12/21/23 11:05	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/20/23 16:46	12/21/23 11:05	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/20/23 16:46	12/21/23 11:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*12/20/23 16:46*	*12/21/23 11:05*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*12/20/23 16:46*	*12/21/23 11:05*	*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			12/21/23 11:05	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			12/21/23 18:03	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		12/20/23 14:31	12/21/23 18:03	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		12/20/23 14:31	12/21/23 18:03	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		12/20/23 14:31	12/21/23 18:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*180*	*S1+*	*70 - 130*	*12/20/23 14:31*	*12/21/23 18:03*	*1*
o-Terphenyl	*155*	*S1+*	*70 - 130*	*12/20/23 14:31*	*12/21/23 18:03*	*1*

Client Sample Results

Client: Ensolum
Project/Site: PLU 22 Dog Town Draw Pad B

Job ID: 890-5817-1
SDG: 03C1558274

Client Sample ID: SW01

Date Collected: 12/18/23 12:50
Date Received: 12/19/23 08:10
Sample Depth: 0-1'

Lab Sample ID: 890-5817-14

Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.99		5.04		mg/Kg			12/21/23 10:56	1

Surrogate Summary

Client: Ensolum
Project/Site: PLU 22 Dog Town Draw Pad B

Job ID: 890-5817-1
SDG: 03C1558274

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-37027-A-2-F MS	Matrix Spike	99	103
880-37027-A-2-G MSD	Matrix Spike Duplicate	91	99
890-5817-1	PH01	85	70
890-5817-1 MS	PH01	115	106
890-5817-1 MSD	PH01	113	91
890-5817-2	PH01	88	54 S1-
890-5817-3	PH02	82	82
890-5817-4	PH02	75	84
890-5817-5	PH03	79	85
890-5817-6	PH03	88	73
890-5817-7	PH04	86	73
890-5817-8	PH04	85	72
890-5817-9	PH05	86	72
890-5817-10	PH05	79	86
890-5817-11	FS01	97	101
890-5817-12	FS02	102	105
890-5817-13	FS03	106	113
890-5817-14	SW01	101	106
LCS 880-69290/1-A	Lab Control Sample	90	102
LCS 880-69485/1-A	Lab Control Sample	125	93
LCSD 880-69290/2-A	Lab Control Sample Dup	96	104
LCSD 880-69485/2-A	Lab Control Sample Dup	117	98
MB 880-69290/5-A	Method Blank	121	123
MB 880-69440/5-A	Method Blank	69 S1-	89
MB 880-69453/5-A	Method Blank	106	116
MB 880-69485/5-A	Method Blank	72	84

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-5817-1	PH01	164 S1+	140 S1+
890-5817-2	PH01	121	104
890-5817-3	PH02	167 S1+	142 S1+
890-5817-4	PH02	169 S1+	140 S1+
890-5817-5	PH03	172 S1+	146 S1+
890-5817-6	PH03	171 S1+	143 S1+
890-5817-7	PH04	128	108
890-5817-8	PH04	165 S1+	138 S1+
890-5817-9	PH05	100	110
890-5817-10	PH05	174 S1+	146 S1+
890-5817-11	FS01	174 S1+	146 S1+
890-5817-12	FS02	209 S1+	180 S1+
890-5817-13	FS03	184 S1+	156 S1+

Surrogate Summary

Client: Ensolum
Project/Site: PLU 22 Dog Town Draw Pad B

Job ID: 890-5817-1
SDG: 03C1558274

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-5817-14	SW01	180 S1+	155 S1+
890-5819-A-1-D MS	Matrix Spike	191 S1+	137 S1+
890-5819-A-1-E MSD	Matrix Spike Duplicate	169 S1+	116
890-5847-A-2-D MS	Matrix Spike	156 S1+	111
890-5847-A-2-E MSD	Matrix Spike Duplicate	153 S1+	110
890-5861-A-1-B MS	Matrix Spike	128	125
890-5861-A-1-C MSD	Matrix Spike Duplicate	117	113
LCS 880-69486/2-A	Lab Control Sample	93	84
LCS 880-69977/2-A	Lab Control Sample	86	77
LCS 880-70027/2-A	Lab Control Sample	99	120
LCSD 880-69486/3-A	Lab Control Sample Dup	91	81
LCSD 880-69977/3-A	Lab Control Sample Dup	96	87
LCSD 880-70027/3-A	Lab Control Sample Dup	105	126
MB 880-69486/1-A	Method Blank	135 S1+	122
MB 880-69977/1-A	Method Blank	120	107
MB 880-70027/1-A	Method Blank	95	113

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: PLU 22 Dog Town Draw Pad B

Job ID: 890-5817-1
SDG: 03C1558274

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-69290/5-A
Matrix: Solid
Analysis Batch: 69481

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 69290

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/18/23 09:46	12/21/23 04:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/18/23 09:46	12/21/23 04:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/18/23 09:46	12/21/23 04:40	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/18/23 09:46	12/21/23 04:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/18/23 09:46	12/21/23 04:40	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/18/23 09:46	12/21/23 04:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*	*12/18/23 09:46*	*12/21/23 04:40*	*1*
1,4-Difluorobenzene (Surr)	*123*		*70 - 130*	*12/18/23 09:46*	*12/21/23 04:40*	*1*

Lab Sample ID: LCS 880-69290/1-A
Matrix: Solid
Analysis Batch: 69481

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 69290

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.07913		mg/Kg		79	70 - 130		
Toluene			0.100	0.07816		mg/Kg		78	70 - 130		
Ethylbenzene			0.100	0.07162		mg/Kg		72	70 - 130		
m-Xylene & p-Xylene			0.200	0.1396		mg/Kg		70	70 - 130		
o-Xylene			0.100	0.07773		mg/Kg		78	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: LCSD 880-69290/2-A
Matrix: Solid
Analysis Batch: 69481

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 69290

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.08753		mg/Kg		88	70 - 130	10	35
Toluene			0.100	0.08061		mg/Kg		81	70 - 130	3	35
Ethylbenzene			0.100	0.08279		mg/Kg		83	70 - 130	14	35
m-Xylene & p-Xylene			0.200	0.1524		mg/Kg		76	70 - 130	9	35
o-Xylene			0.100	0.08477		mg/Kg		85	70 - 130	9	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: 880-37027-A-2-F MS
Matrix: Solid
Analysis Batch: 69481

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 69290

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U	0.0996	0.07267		mg/Kg		73	70 - 130		
Toluene	<0.00200	U F1	0.0996	0.06639	F1	mg/Kg		67	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: PLU 22 Dog Town Draw Pad B

Job ID: 890-5817-1
SDG: 03C1558274

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

Lab Sample ID: 880-37027-A-2-F MS
Matrix: Solid
Analysis Batch: 69481

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 69290

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U F1	0.0996	0.04839	F1	mg/Kg		49	70 - 130
m-Xylene & p-Xylene	<0.00399	U F1	0.199	0.1409		mg/Kg		71	70 - 130
o-Xylene	<0.00200	U	0.0996	0.08004		mg/Kg		80	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: 880-37027-A-2-G MSD
Matrix: Solid
Analysis Batch: 69481

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 69290

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0990	0.07258		mg/Kg		73	70 - 130	0	35
Toluene	<0.00200	U F1	0.0990	0.06590	F1	mg/Kg		67	70 - 130	1	35
Ethylbenzene	<0.00200	U F1	0.0990	0.04878	F1	mg/Kg		49	70 - 130	1	35
m-Xylene & p-Xylene	<0.00399	U F1	0.198	0.1267	F1	mg/Kg		64	70 - 130	11	35
o-Xylene	<0.00200	U	0.0990	0.07134		mg/Kg		72	70 - 130	11	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: MB 880-69440/5-A
Matrix: Solid
Analysis Batch: 69441

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 69440

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/20/23 10:03	12/20/23 15:17	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/23 10:03	12/20/23 15:17	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/23 10:03	12/20/23 15:17	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/20/23 10:03	12/20/23 15:17	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/23 10:03	12/20/23 15:17	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/20/23 10:03	12/20/23 15:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*69*	*S1-*	*70 - 130*	*12/20/23 10:03*	*12/20/23 15:17*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*12/20/23 10:03*	*12/20/23 15:17*	*1*

Lab Sample ID: MB 880-69453/5-A
Matrix: Solid
Analysis Batch: 69481

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 69453

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/20/23 11:05	12/20/23 17:06	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/23 11:05	12/20/23 17:06	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/23 11:05	12/20/23 17:06	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/20/23 11:05	12/20/23 17:06	1

QC Sample Results

Client: Ensolum
Project/Site: PLU 22 Dog Town Draw Pad B

Job ID: 890-5817-1
SDG: 03C1558274

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

Lab Sample ID: MB 880-69453/5-A
Matrix: Solid
Analysis Batch: 69481

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 69453

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/23 11:05	12/20/23 17:06	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/20/23 11:05	12/20/23 17:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*12/20/23 11:05*	*12/20/23 17:06*	*1*
1,4-Difluorobenzene (Surr)	*116*		*70 - 130*	*12/20/23 11:05*	*12/20/23 17:06*	*1*

Lab Sample ID: MB 880-69485/5-A
Matrix: Solid
Analysis Batch: 69441

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 69485

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/20/23 14:27	12/21/23 01:51	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/23 14:27	12/21/23 01:51	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/23 14:27	12/21/23 01:51	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/20/23 14:27	12/21/23 01:51	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/23 14:27	12/21/23 01:51	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/20/23 14:27	12/21/23 01:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*72*		*70 - 130*	*12/20/23 14:27*	*12/21/23 01:51*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*12/20/23 14:27*	*12/21/23 01:51*	*1*

Lab Sample ID: LCS 880-69485/1-A
Matrix: Solid
Analysis Batch: 69441

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 69485

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09116		mg/Kg		91	70 - 130		
Toluene			0.100	0.08705		mg/Kg		87	70 - 130		
Ethylbenzene			0.100	0.09897		mg/Kg		99	70 - 130		
m-Xylene & p-Xylene			0.200	0.1927		mg/Kg		96	70 - 130		
o-Xylene			0.100	0.09414		mg/Kg		94	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*

Lab Sample ID: LCSD 880-69485/2-A
Matrix: Solid
Analysis Batch: 69441

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 69485

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.08587		mg/Kg		86	70 - 130	6	35
Toluene			0.100	0.08170		mg/Kg		82	70 - 130	6	35
Ethylbenzene			0.100	0.08024		mg/Kg		80	70 - 130	21	35
m-Xylene & p-Xylene			0.200	0.1758		mg/Kg		88	70 - 130	9	35
o-Xylene			0.100	0.1048		mg/Kg		105	70 - 130	11	35

QC Sample Results

Client: Ensolum
Project/Site: PLU 22 Dog Town Draw Pad B

Job ID: 890-5817-1
SDG: 03C1558274

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

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	117		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 890-5817-1 MS
Matrix: Solid
Analysis Batch: 69441

Client Sample ID: PH01
Prep Type: Total/NA
Prep Batch: 69485

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00198	U F1	0.0990	0.07451		mg/Kg		75	70 - 130
Toluene	<0.00198	U	0.0990	0.07979		mg/Kg		80	70 - 130
Ethylbenzene	<0.00198	U	0.0990	0.09865		mg/Kg		100	70 - 130
m-Xylene & p-Xylene	<0.00396	U	0.198	0.1947		mg/Kg		98	70 - 130
o-Xylene	<0.00198	U	0.0990	0.09239		mg/Kg		93	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: 890-5817-1 MSD
Matrix: Solid
Analysis Batch: 69441

Client Sample ID: PH01
Prep Type: Total/NA
Prep Batch: 69485

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00198	U F1	0.100	0.06862	F1	mg/Kg		68	70 - 130	8	35
Toluene	<0.00198	U	0.100	0.07394		mg/Kg		73	70 - 130	8	35
Ethylbenzene	<0.00198	U	0.100	0.09201		mg/Kg		92	70 - 130	7	35
m-Xylene & p-Xylene	<0.00396	U	0.200	0.1812		mg/Kg		90	70 - 130	7	35
o-Xylene	<0.00198	U	0.100	0.08625		mg/Kg		86	70 - 130	7	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	91		70 - 130

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

Lab Sample ID: MB 880-69486/1-A
Matrix: Solid
Analysis Batch: 69505

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 69486

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/20/23 14:31	12/21/23 08:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/20/23 14:31	12/21/23 08:28	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/20/23 14:31	12/21/23 08:28	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	135	S1+	70 - 130	12/20/23 14:31	12/21/23 08:28	1
o-Terphenyl	122		70 - 130	12/20/23 14:31	12/21/23 08:28	1

QC Sample Results

Client: Ensolum
Project/Site: PLU 22 Dog Town Draw Pad B

Job ID: 890-5817-1
SDG: 03C1558274

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

Lab Sample ID: LCS 880-69486/2-A
Matrix: Solid
Analysis Batch: 69505

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 69486

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	965.5		mg/Kg		97	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	980.3		mg/Kg		98	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*93*		*70 - 130*
o-Terphenyl	*84*		*70 - 130*

Lab Sample ID: LCSD 880-69486/3-A
Matrix: Solid
Analysis Batch: 69505

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 69486

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	952.5		mg/Kg		95	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	954.6		mg/Kg		95	70 - 130	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*91*		*70 - 130*
o-Terphenyl	*81*		*70 - 130*

Lab Sample ID: 890-5819-A-1-D MS
Matrix: Solid
Analysis Batch: 69505

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 69486

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	1000	1570	F1	mg/Kg		155	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U F1	1000	1775	F1	mg/Kg		173	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*191*	*S1+*	*70 - 130*
o-Terphenyl	*137*	*S1+*	*70 - 130*

Lab Sample ID: 890-5819-A-1-E MSD
Matrix: Solid
Analysis Batch: 69505

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 69486

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	<49.9	U F1	1000	1357	F1	mg/Kg		134	70 - 130	15	20
Diesel Range Organics (Over C10-C28)	<49.9	U F1	1000	1549	F1	mg/Kg		151	70 - 130	14	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*169*	*S1+*	*70 - 130*

QC Sample Results

Client: Ensolum
Project/Site: PLU 22 Dog Town Draw Pad B

Job ID: 890-5817-1
SDG: 03C1558274

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

Lab Sample ID: 890-5819-A-1-E MSD
Matrix: Solid
Analysis Batch: 69505

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 69486

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
o-Terphenyl	*116*		*70 - 130*

Lab Sample ID: MB 880-69977/1-A
Matrix: Solid
Analysis Batch: 70001

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 69977

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/29/23 12:42	01/02/24 19:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/29/23 12:42	01/02/24 19:32	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/29/23 12:42	01/02/24 19:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*120*		*70 - 130*	*12/29/23 12:42*	*01/02/24 19:32*	*1*
o-Terphenyl	*107*		*70 - 130*	*12/29/23 12:42*	*01/02/24 19:32*	*1*

Lab Sample ID: LCS 880-69977/2-A
Matrix: Solid
Analysis Batch: 70001

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 69977

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	873.1		mg/Kg		87	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	847.7		mg/Kg		85	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*86*		*70 - 130*
o-Terphenyl	*77*		*70 - 130*

Lab Sample ID: LCSD 880-69977/3-A
Matrix: Solid
Analysis Batch: 70001

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 69977

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	872.2		mg/Kg		87	70 - 130	0	20
Diesel Range Organics (Over C10-C28)			1000	967.5		mg/Kg		97	70 - 130	13	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*96*		*70 - 130*
o-Terphenyl	*87*		*70 - 130*

QC Sample Results

Client: Ensolum
Project/Site: PLU 22 Dog Town Draw Pad B

Job ID: 890-5817-1
SDG: 03C1558274

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

Lab Sample ID: 890-5847-A-2-D MS
Matrix: Solid
Analysis Batch: 70001

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 69977

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	998	1293		mg/Kg		128	70 - 130
Diesel Range Organics (Over C10-C28)	<50.3	U	998	1323		mg/Kg		130	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*156*	*S1+*	*70 - 130*
o-Terphenyl	*111*		*70 - 130*

Lab Sample ID: 890-5847-A-2-E MSD
Matrix: Solid
Analysis Batch: 70001

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 69977

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	<50.3	U	998	1220		mg/Kg		121	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	<50.3	U	998	1308		mg/Kg		129	70 - 130	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*153*	*S1+*	*70 - 130*
o-Terphenyl	*110*		*70 - 130*

Lab Sample ID: MB 880-70027/1-A
Matrix: Solid
Analysis Batch: 70003

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 70027

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		01/02/24 09:44	01/02/24 19:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/02/24 09:44	01/02/24 19:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/02/24 09:44	01/02/24 19:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*01/02/24 09:44*	*01/02/24 19:32*	*1*
o-Terphenyl	*113*		*70 - 130*	*01/02/24 09:44*	*01/02/24 19:32*	*1*

Lab Sample ID: LCS 880-70027/2-A
Matrix: Solid
Analysis Batch: 70003

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 70027

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1060		mg/Kg		106	70 - 130
Diesel Range Organics (Over C10-C28)	1000	935.5		mg/Kg		94	70 - 130

QC Sample Results

Client: Ensolum
Project/Site: PLU 22 Dog Town Draw Pad B

Job ID: 890-5817-1
SDG: 03C1558274

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

Lab Sample ID: LCS 880-70027/2-A
Matrix: Solid
Analysis Batch: 70003

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 70027

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	99		70 - 130
o-Terphenyl	120		70 - 130

Lab Sample ID: LCSD 880-70027/3-A
Matrix: Solid
Analysis Batch: 70003

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 70027

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1090		mg/Kg		109	70 - 130	3	20
Diesel Range Organics (Over C10-C28)			1000	974.9		mg/Kg		97	70 - 130	4	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	105		70 - 130
o-Terphenyl	126		70 - 130

Lab Sample ID: 890-5861-A-1-B MS
Matrix: Solid
Analysis Batch: 70003

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 70027

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	992	1312		mg/Kg		128	70 - 130
Diesel Range Organics (Over C10-C28)	681	F1	992	1359	F1	mg/Kg		68	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	128		70 - 130
o-Terphenyl	125		70 - 130

Lab Sample ID: 890-5861-A-1-C MSD
Matrix: Solid
Analysis Batch: 70003

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 70027

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	992	1272		mg/Kg		124	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	681	F1	992	1220	F1	mg/Kg		54	70 - 130	11	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	117		70 - 130
o-Terphenyl	113		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: PLU 22 Dog Town Draw Pad B

Job ID: 890-5817-1
SDG: 03C1558274

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-69433/1-A
Matrix: Solid
Analysis Batch: 69490

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			12/21/23 08:06	1

Lab Sample ID: LCS 880-69433/2-A
Matrix: Solid
Analysis Batch: 69490

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	262.6		mg/Kg		105	90 - 110		

Lab Sample ID: LCSD 880-69433/3-A
Matrix: Solid
Analysis Batch: 69490

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	261.0		mg/Kg		104	90 - 110	1	20

Lab Sample ID: 890-5817-9 MS
Matrix: Solid
Analysis Batch: 69490

Client Sample ID: PH05
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	569	F1	251	794.8		mg/Kg		90	90 - 110		

Lab Sample ID: 890-5817-9 MSD
Matrix: Solid
Analysis Batch: 69490

Client Sample ID: PH05
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	569	F1	251	784.8	F1	mg/Kg		86	90 - 110	1	20

QC Association Summary

Client: Ensolum
Project/Site: PLU 22 Dog Town Draw Pad B

Job ID: 890-5817-1
SDG: 03C1558274

GC VOA

Prep Batch: 69290

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5817-11	FS01	Total/NA	Solid	5035	
890-5817-12	FS02	Total/NA	Solid	5035	
890-5817-13	FS03	Total/NA	Solid	5035	
890-5817-14	SW01	Total/NA	Solid	5035	
MB 880-69290/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-69290/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-69290/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-37027-A-2-F MS	Matrix Spike	Total/NA	Solid	5035	
880-37027-A-2-G MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 69440

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-69440/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 69441

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5817-1	PH01	Total/NA	Solid	8021B	69485
890-5817-2	PH01	Total/NA	Solid	8021B	69485
890-5817-3	PH02	Total/NA	Solid	8021B	69485
890-5817-4	PH02	Total/NA	Solid	8021B	69485
890-5817-5	PH03	Total/NA	Solid	8021B	69485
890-5817-6	PH03	Total/NA	Solid	8021B	69485
890-5817-7	PH04	Total/NA	Solid	8021B	69485
890-5817-8	PH04	Total/NA	Solid	8021B	69485
890-5817-9	PH05	Total/NA	Solid	8021B	69485
890-5817-10	PH05	Total/NA	Solid	8021B	69485
MB 880-69440/5-A	Method Blank	Total/NA	Solid	8021B	69440
MB 880-69485/5-A	Method Blank	Total/NA	Solid	8021B	69485
LCS 880-69485/1-A	Lab Control Sample	Total/NA	Solid	8021B	69485
LCSD 880-69485/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	69485
890-5817-1 MS	PH01	Total/NA	Solid	8021B	69485
890-5817-1 MSD	PH01	Total/NA	Solid	8021B	69485

Prep Batch: 69453

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-69453/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 69481

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5817-11	FS01	Total/NA	Solid	8021B	69290
890-5817-12	FS02	Total/NA	Solid	8021B	69290
890-5817-13	FS03	Total/NA	Solid	8021B	69290
890-5817-14	SW01	Total/NA	Solid	8021B	69290
MB 880-69290/5-A	Method Blank	Total/NA	Solid	8021B	69290
MB 880-69453/5-A	Method Blank	Total/NA	Solid	8021B	69453
LCS 880-69290/1-A	Lab Control Sample	Total/NA	Solid	8021B	69290
LCSD 880-69290/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	69290
880-37027-A-2-F MS	Matrix Spike	Total/NA	Solid	8021B	69290
880-37027-A-2-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	69290

QC Association Summary

Client: Ensolum
Project/Site: PLU 22 Dog Town Draw Pad B

Job ID: 890-5817-1
SDG: 03C1558274

GC VOA

Prep Batch: 69485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5817-1	PH01	Total/NA	Solid	5035	
890-5817-2	PH01	Total/NA	Solid	5035	
890-5817-3	PH02	Total/NA	Solid	5035	
890-5817-4	PH02	Total/NA	Solid	5035	
890-5817-5	PH03	Total/NA	Solid	5035	
890-5817-6	PH03	Total/NA	Solid	5035	
890-5817-7	PH04	Total/NA	Solid	5035	
890-5817-8	PH04	Total/NA	Solid	5035	
890-5817-9	PH05	Total/NA	Solid	5035	
890-5817-10	PH05	Total/NA	Solid	5035	
MB 880-69485/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-69485/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-69485/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-5817-1 MS	PH01	Total/NA	Solid	5035	
890-5817-1 MSD	PH01	Total/NA	Solid	5035	

Analysis Batch: 69582

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5817-1	PH01	Total/NA	Solid	Total BTEX	
890-5817-2	PH01	Total/NA	Solid	Total BTEX	
890-5817-3	PH02	Total/NA	Solid	Total BTEX	
890-5817-4	PH02	Total/NA	Solid	Total BTEX	
890-5817-5	PH03	Total/NA	Solid	Total BTEX	
890-5817-6	PH03	Total/NA	Solid	Total BTEX	
890-5817-7	PH04	Total/NA	Solid	Total BTEX	
890-5817-8	PH04	Total/NA	Solid	Total BTEX	
890-5817-9	PH05	Total/NA	Solid	Total BTEX	
890-5817-10	PH05	Total/NA	Solid	Total BTEX	
890-5817-11	FS01	Total/NA	Solid	Total BTEX	
890-5817-12	FS02	Total/NA	Solid	Total BTEX	
890-5817-13	FS03	Total/NA	Solid	Total BTEX	
890-5817-14	SW01	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 69486

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5817-1	PH01	Total/NA	Solid	8015NM Prep	
890-5817-2	PH01	Total/NA	Solid	8015NM Prep	
890-5817-3	PH02	Total/NA	Solid	8015NM Prep	
890-5817-4	PH02	Total/NA	Solid	8015NM Prep	
890-5817-5	PH03	Total/NA	Solid	8015NM Prep	
890-5817-6	PH03	Total/NA	Solid	8015NM Prep	
890-5817-8	PH04	Total/NA	Solid	8015NM Prep	
890-5817-10	PH05	Total/NA	Solid	8015NM Prep	
890-5817-11	FS01	Total/NA	Solid	8015NM Prep	
890-5817-12	FS02	Total/NA	Solid	8015NM Prep	
890-5817-13	FS03	Total/NA	Solid	8015NM Prep	
890-5817-14	SW01	Total/NA	Solid	8015NM Prep	
MB 880-69486/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-69486/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Ensolum
Project/Site: PLU 22 Dog Town Draw Pad B

Job ID: 890-5817-1
SDG: 03C1558274

GC Semi VOA (Continued)

Prep Batch: 69486 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-69486/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-5819-A-1-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-5819-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 69505

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5817-1	PH01	Total/NA	Solid	8015B NM	69486
890-5817-2	PH01	Total/NA	Solid	8015B NM	69486
890-5817-3	PH02	Total/NA	Solid	8015B NM	69486
890-5817-4	PH02	Total/NA	Solid	8015B NM	69486
890-5817-5	PH03	Total/NA	Solid	8015B NM	69486
890-5817-6	PH03	Total/NA	Solid	8015B NM	69486
890-5817-8	PH04	Total/NA	Solid	8015B NM	69486
890-5817-10	PH05	Total/NA	Solid	8015B NM	69486
890-5817-11	FS01	Total/NA	Solid	8015B NM	69486
890-5817-12	FS02	Total/NA	Solid	8015B NM	69486
890-5817-13	FS03	Total/NA	Solid	8015B NM	69486
890-5817-14	SW01	Total/NA	Solid	8015B NM	69486
MB 880-69486/1-A	Method Blank	Total/NA	Solid	8015B NM	69486
LCS 880-69486/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	69486
LCSD 880-69486/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	69486
890-5819-A-1-D MS	Matrix Spike	Total/NA	Solid	8015B NM	69486
890-5819-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	69486

Analysis Batch: 69665

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5817-1	PH01	Total/NA	Solid	8015 NM	
890-5817-2	PH01	Total/NA	Solid	8015 NM	
890-5817-3	PH02	Total/NA	Solid	8015 NM	
890-5817-4	PH02	Total/NA	Solid	8015 NM	
890-5817-5	PH03	Total/NA	Solid	8015 NM	
890-5817-6	PH03	Total/NA	Solid	8015 NM	
890-5817-7	PH04	Total/NA	Solid	8015 NM	
890-5817-8	PH04	Total/NA	Solid	8015 NM	
890-5817-9	PH05	Total/NA	Solid	8015 NM	
890-5817-10	PH05	Total/NA	Solid	8015 NM	
890-5817-11	FS01	Total/NA	Solid	8015 NM	
890-5817-12	FS02	Total/NA	Solid	8015 NM	
890-5817-13	FS03	Total/NA	Solid	8015 NM	
890-5817-14	SW01	Total/NA	Solid	8015 NM	

Prep Batch: 69977

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5817-7	PH04	Total/NA	Solid	8015NM Prep	
MB 880-69977/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-69977/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-69977/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-5847-A-2-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-5847-A-2-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Ensolum
Project/Site: PLU 22 Dog Town Draw Pad B

Job ID: 890-5817-1
SDG: 03C1558274

GC Semi VOA

Analysis Batch: 70001

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5817-7	PH04	Total/NA	Solid	8015B NM	69977
MB 880-69977/1-A	Method Blank	Total/NA	Solid	8015B NM	69977
LCS 880-69977/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	69977
LCSD 880-69977/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	69977
890-5847-A-2-D MS	Matrix Spike	Total/NA	Solid	8015B NM	69977
890-5847-A-2-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	69977

Analysis Batch: 70003

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5817-9	PH05	Total/NA	Solid	8015B NM	70027
MB 880-70027/1-A	Method Blank	Total/NA	Solid	8015B NM	70027
LCS 880-70027/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	70027
LCSD 880-70027/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	70027
890-5861-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	70027
890-5861-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	70027

Prep Batch: 70027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5817-9	PH05	Total/NA	Solid	8015NM Prep	
MB 880-70027/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-70027/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-70027/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-5861-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-5861-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

HPLC/IC

Leach Batch: 69433

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5817-1	PH01	Soluble	Solid	DI Leach	
890-5817-2	PH01	Soluble	Solid	DI Leach	
890-5817-3	PH02	Soluble	Solid	DI Leach	
890-5817-4	PH02	Soluble	Solid	DI Leach	
890-5817-5	PH03	Soluble	Solid	DI Leach	
890-5817-6	PH03	Soluble	Solid	DI Leach	
890-5817-7	PH04	Soluble	Solid	DI Leach	
890-5817-8	PH04	Soluble	Solid	DI Leach	
890-5817-9	PH05	Soluble	Solid	DI Leach	
890-5817-10	PH05	Soluble	Solid	DI Leach	
890-5817-11	FS01	Soluble	Solid	DI Leach	
890-5817-12	FS02	Soluble	Solid	DI Leach	
890-5817-13	FS03	Soluble	Solid	DI Leach	
890-5817-14	SW01	Soluble	Solid	DI Leach	
MB 880-69433/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-69433/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-69433/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-5817-9 MS	PH05	Soluble	Solid	DI Leach	
890-5817-9 MSD	PH05	Soluble	Solid	DI Leach	

QC Association Summary

Client: Ensolum
Project/Site: PLU 22 Dog Town Draw Pad B

Job ID: 890-5817-1
SDG: 03C1558274

HPLC/IC

Analysis Batch: 69490

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5817-1	PH01	Soluble	Solid	300.0	69433
890-5817-2	PH01	Soluble	Solid	300.0	69433
890-5817-3	PH02	Soluble	Solid	300.0	69433
890-5817-4	PH02	Soluble	Solid	300.0	69433
890-5817-5	PH03	Soluble	Solid	300.0	69433
890-5817-6	PH03	Soluble	Solid	300.0	69433
890-5817-7	PH04	Soluble	Solid	300.0	69433
890-5817-8	PH04	Soluble	Solid	300.0	69433
890-5817-9	PH05	Soluble	Solid	300.0	69433
890-5817-10	PH05	Soluble	Solid	300.0	69433
890-5817-11	FS01	Soluble	Solid	300.0	69433
890-5817-12	FS02	Soluble	Solid	300.0	69433
890-5817-13	FS03	Soluble	Solid	300.0	69433
890-5817-14	SW01	Soluble	Solid	300.0	69433
MB 880-69433/1-A	Method Blank	Soluble	Solid	300.0	69433
LCS 880-69433/2-A	Lab Control Sample	Soluble	Solid	300.0	69433
LCSD 880-69433/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	69433
890-5817-9 MS	PH05	Soluble	Solid	300.0	69433
890-5817-9 MSD	PH05	Soluble	Solid	300.0	69433

Lab Chronicle

Client: Ensolum
Project/Site: PLU 22 Dog Town Draw Pad B

Job ID: 890-5817-1
SDG: 03C1558274

Client Sample ID: PH01
Date Collected: 12/18/23 09:20
Date Received: 12/19/23 08:10

Lab Sample ID: 890-5817-1
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			5.05 g	5 mL	69485	12/20/23 14:27	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	69441	12/21/23 02:13	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			69582	12/21/23 02:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			69665	12/21/23 13:00	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	69486	12/20/23 14:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	69505	12/21/23 13:00	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	69433	12/20/23 09:38	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	69490	12/21/23 08:52	CH	EET MID

Client Sample ID: PH01
Date Collected: 12/18/23 09:30
Date Received: 12/19/23 08:10

Lab Sample ID: 890-5817-2
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			4.98 g	5 mL	69485	12/20/23 14:27	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	69441	12/21/23 02:33	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			69582	12/21/23 02:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			69665	12/21/23 13:21	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	69486	12/20/23 14:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	69505	12/21/23 13:21	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	69433	12/20/23 09:38	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	69490	12/21/23 08:59	CH	EET MID

Client Sample ID: PH02
Date Collected: 12/18/23 09:40
Date Received: 12/19/23 08:10

Lab Sample ID: 890-5817-3
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			4.98 g	5 mL	69485	12/20/23 14:27	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	69441	12/21/23 02:54	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			69582	12/21/23 02:54	SM	EET MID
Total/NA	Analysis	8015 NM		1			69665	12/21/23 13:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	69486	12/20/23 14:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	69505	12/21/23 13:43	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	69433	12/20/23 09:38	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	69490	12/21/23 09:05	CH	EET MID

Client Sample ID: PH02
Date Collected: 12/18/23 09:45
Date Received: 12/19/23 08:10

Lab Sample ID: 890-5817-4
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			4.95 g	5 mL	69485	12/20/23 14:27	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	69441	12/21/23 03:14	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			69582	12/21/23 03:14	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: PLU 22 Dog Town Draw Pad B

Job ID: 890-5817-1
SDG: 03C1558274

Client Sample ID: PH02
Date Collected: 12/18/23 09:45
Date Received: 12/19/23 08:10

Lab Sample ID: 890-5817-4
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			69665	12/21/23 14:05	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	69486	12/20/23 14:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	69505	12/21/23 14:05	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	69433	12/20/23 09:38	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	69490	12/21/23 09:25	CH	EET MID

Client Sample ID: PH03
Date Collected: 12/18/23 14:00
Date Received: 12/19/23 08:10

Lab Sample ID: 890-5817-5
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	69485	12/20/23 14:27	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	69441	12/21/23 03:34	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			69582	12/21/23 03:34	SM	EET MID
Total/NA	Analysis	8015 NM		1			69665	12/21/23 14:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	69486	12/20/23 14:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	69505	12/21/23 14:27	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	69433	12/20/23 09:38	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	69490	12/21/23 09:32	CH	EET MID

Client Sample ID: PH03
Date Collected: 12/18/23 13:30
Date Received: 12/19/23 08:10

Lab Sample ID: 890-5817-6
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			5.03 g	5 mL	69485	12/20/23 14:27	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	69441	12/21/23 03:55	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			69582	12/21/23 03:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			69665	12/21/23 14:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	69486	12/20/23 14:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	69505	12/21/23 14:48	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	69433	12/20/23 09:38	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	69490	12/21/23 09:38	CH	EET MID

Client Sample ID: PH04
Date Collected: 12/18/23 14:05
Date Received: 12/19/23 08:10

Lab Sample ID: 890-5817-7
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	69485	12/20/23 14:27	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	69441	12/21/23 04:15	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			69582	12/21/23 04:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			69665	01/03/24 00:42	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	69977	12/29/23 12:42	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70001	01/03/24 00:42	SM	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: PLU 22 Dog Town Draw Pad B

Job ID: 890-5817-1
SDG: 03C1558274

Client Sample ID: PH04
Date Collected: 12/18/23 14:05
Date Received: 12/19/23 08:10

Lab Sample ID: 890-5817-7
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			5.05 g	50 mL	69433	12/20/23 09:38	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	69490	12/21/23 09:45	CH	EET MID

Client Sample ID: PH04
Date Collected: 12/18/23 13:40
Date Received: 12/19/23 08:10

Lab Sample ID: 890-5817-8
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			5.04 g	5 mL	69485	12/20/23 14:27	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	69441	12/21/23 04:36	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			69582	12/21/23 04:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			69665	12/21/23 15:32	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	69486	12/20/23 14:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	69505	12/21/23 15:32	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	69433	12/20/23 09:38	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	69490	12/21/23 09:51	CH	EET MID

Client Sample ID: PH05
Date Collected: 12/18/23 14:10
Date Received: 12/19/23 08:10

Lab Sample ID: 890-5817-9
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			4.98 g	5 mL	69485	12/20/23 14:27	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	69441	12/21/23 04:56	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			69582	12/21/23 04:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			69665	01/03/24 04:42	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	70027	01/02/24 09:44	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70003	01/03/24 04:42	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	69433	12/20/23 09:38	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	69490	12/21/23 09:58	CH	EET MID

Client Sample ID: PH05
Date Collected: 12/18/23 13:45
Date Received: 12/19/23 08:10

Lab Sample ID: 890-5817-10
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			4.97 g	5 mL	69485	12/20/23 14:27	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	69441	12/21/23 05:17	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			69582	12/21/23 05:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			69665	12/21/23 16:37	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	69486	12/20/23 14:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	69505	12/21/23 16:37	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	69433	12/20/23 09:39	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	69490	12/21/23 10:17	CH	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: PLU 22 Dog Town Draw Pad B

Job ID: 890-5817-1
SDG: 03C1558274

Client Sample ID: FS01
Date Collected: 12/18/23 12:35
Date Received: 12/19/23 08:10

Lab Sample ID: 890-5817-11
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			5.03 g	5 mL	69290	12/20/23 16:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	69481	12/21/23 10:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			69582	12/21/23 10:03	SM	EET MID
Total/NA	Analysis	8015 NM		1			69665	12/21/23 16:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	69486	12/20/23 14:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	69505	12/21/23 16:59	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	69433	12/20/23 09:39	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	69490	12/21/23 10:24	CH	EET MID

Client Sample ID: FS02
Date Collected: 12/18/23 12:40
Date Received: 12/19/23 08:10

Lab Sample ID: 890-5817-12
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			5.01 g	5 mL	69290	12/20/23 16:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	69481	12/21/23 10:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			69582	12/21/23 10:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			69665	12/21/23 17:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	69486	12/20/23 14:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	69505	12/21/23 17:20	AJ	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	69433	12/20/23 09:39	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	69490	12/21/23 10:43	CH	EET MID

Client Sample ID: FS03
Date Collected: 12/18/23 12:45
Date Received: 12/19/23 08:10

Lab Sample ID: 890-5817-13
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			5.02 g	5 mL	69290	12/20/23 16:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	69481	12/21/23 10:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			69582	12/21/23 10:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			69665	12/21/23 17:41	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	69486	12/20/23 14:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	69505	12/21/23 17:41	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	69433	12/20/23 09:39	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	69490	12/21/23 10:50	CH	EET MID

Client Sample ID: SW01
Date Collected: 12/18/23 12:50
Date Received: 12/19/23 08:10

Lab Sample ID: 890-5817-14
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			5.03 g	5 mL	69290	12/20/23 16:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	69481	12/21/23 11:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			69582	12/21/23 11:05	SM	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: PLU 22 Dog Town Draw Pad B

Job ID: 890-5817-1
SDG: 03C1558274

Client Sample ID: SW01

Date Collected: 12/18/23 12:50
Date Received: 12/19/23 08:10

Lab Sample ID: 890-5817-14

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			69665	12/21/23 18:03	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	69486	12/20/23 14:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	69505	12/21/23 18:03	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	69433	12/20/23 09:39	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	69490	12/21/23 10:56	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: PLU 22 Dog Town Draw Pad B

Job ID: 890-5817-1
SDG: 03C1558274

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: PLU 22 Dog Town Draw Pad B

Job ID: 890-5817-1
SDG: 03C1558274

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: PLU 22 Dog Town Draw Pad B

Job ID: 890-5817-1
SDG: 03C1558274

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-5817-1	PH01	Solid	12/18/23 09:20	12/19/23 08:10	0.5
890-5817-2	PH01	Solid	12/18/23 09:30	12/19/23 08:10	2
890-5817-3	PH02	Solid	12/18/23 09:40	12/19/23 08:10	0.5
890-5817-4	PH02	Solid	12/18/23 09:45	12/19/23 08:10	2
890-5817-5	PH03	Solid	12/18/23 14:00	12/19/23 08:10	0.5
890-5817-6	PH03	Solid	12/18/23 13:30	12/19/23 08:10	2
890-5817-7	PH04	Solid	12/18/23 14:05	12/19/23 08:10	0.5
890-5817-8	PH04	Solid	12/18/23 13:40	12/19/23 08:10	1
890-5817-9	PH05	Solid	12/18/23 14:10	12/19/23 08:10	0.5
890-5817-10	PH05	Solid	12/18/23 13:45	12/19/23 08:10	1
890-5817-11	FS01	Solid	12/18/23 12:35	12/19/23 08:10	1
890-5817-12	FS02	Solid	12/18/23 12:40	12/19/23 08:10	1
890-5817-13	FS03	Solid	12/18/23 12:45	12/19/23 08:10	1
890-5817-14	SW01	Solid	12/18/23 12:50	12/19/23 08:10	0-1'

eurofins | 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: _____

www.xenco.com Page 1 of 1

Project Manager:	Ben Belill	Bill to: (if different)	Garrett Green
Company Name:	Ensolum LLC	Company Name:	XTO Energy
Address:	3122 National Parks Hwy	Address:	3104 E Greene St
City, State ZIP:	Carlsbad, NM, 88220	City, State ZIP:	Carlsbad, NM, 88220
Phone:	989-554-0852	Email:	BBelill@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:	PW 22 06 Town Crawford B	Turn Around	
Project Number:	03C1558274	☐ Routine ☒ Rush	
Project Location:	32.21054, -103.47116	Due Date:	48 hr
Sampler's Name:	Sarah Wellons	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:	Thermo7
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	0.2
Total Containers:		Corrected Temperature:	0.0

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

ANALYSIS REQUEST

890-5817 Chain of Custody

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: 1 – J	BTEX	TPH
PH01	S	12/8/23	9:20	0.5	G	1		X	X	X
PH01			9:30	2						
PH02			9:40	0.5						
PH02			9:45	2						
PH03			14:00	0.5						
PH03			13:30	2						
PH04			14:05	0.5						
PH04			13:40	1						
PH05			14:10	0.5						
PH05			13:45	1						

Sample Comments

Incident #
nAPP2322752841
cost center
2219154001

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		16:45 12/8	4		
3			6		
5					

Revised Date: 08/25/2020 Rev. 2020.2

eurofins | 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: ____________

www.xenco.com Page 1 of 1

Project Manager:	Ben Belill	Bill to: (if different)	Garrett Green
Company Name:	Ensolum LLC	Company Name:	XTO Energy
Address:	3122 National Parks Hwy	Address:	3104 E. Greene St
City, State ZIP:	Carlsbad, NM, 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	989-854-0852	Email:	BBelill@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 22 Dog Town Draw Fed B	Turn Around	☐ Routine ☒ Rush
Project Number:	03C1558274	Due Date:	48hr
Project Location:	32.21051, -103.57116		TAT starts the day received by the lab, if received by 4:30pm
Sampler's Name:	Sarah Williams		
PO #:			

SAMPLE RECEIPT	Temp Blank:	Yes No (Yes)	Wet Ice:	Yes No (Yes)
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:	0.2
Total Containers:			Corrected Temperature:	-0.0

ANALYSIS REQUEST — Parameters: Cl, BTEX, TPH

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Cl	BTEX	TPH	Sample Comments
FS01	S	12/13/23	12:35	1	C	1	x	x	x	Incident #
FS02	↓	↓	12:40	1	C	↓	↓	↓	↓	nAPP2332752841
FS03	↓	↓	12:45	1	C	↓	↓	↓	↓	Cost Center
SW01	↓	↓	12:50	0-1	C	↓	↓	↓	↓	2219151001

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

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 [signature]	[signature]	16:45 12/14	2		
3			4		
5			6		

Revised Date 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-5817-1
SDG Number: 03C1558274

Login Number: 5817
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.	N/A	Refer to Job Narrative for details.
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	N/A	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-5817-1
SDG Number: 03C1558274

Login Number: 5817
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 12/20/23 01:29 PM

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	

ENSOLUM

APPENDIX E

NMOCD Notifications

From: Hamlet, Robert, EMNRD
To: Collins, Melanie Suzanne
Cc: tommee.l.lambert@exxonmobil.com; Green, Garrett J; Ben Belill; Tacoma Morrissey; Ashley Ager; Bratcher, Michael, EMNRD; Wells, Shelly, EMNRD; Velez, Nelson, EMNRD
Subject: XTO - Extension Request - PLU 22 Dog Town Draw Pad B - Incident Number nAPP2322752841
Date: Friday, November 3, 2023 1:46:49 PM
Attachments: image003.png

[**EXTERNAL EMAIL**]

RE: Incident #**NAPP2322752841**

Melanie,

Your request for an extension to **February 2nd, 2024** 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: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Friday, November 3, 2023 10:04 AM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: FW: [EXTERNAL] XTO - Extension Request - PLU 22 Dog Town Draw Pad B - Incident Number nAPP2322752841

From: Collins, Melanie <melanie.collins@exxonmobil.com>
Sent: Friday, November 3, 2023 9:33 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Lambert, Tommee L <tommee.l.lambert@exxonmobil.com>; Green, Garrett J <garrett.green@exxonmobil.com>; bbelill@ensolum.com; Tacoma Morrissey <tmorrissey@ensolum.com>; Ashley Ager <aager@ensolum.com>
Subject: [EXTERNAL] XTO - Extension Request - PLU 22 Dog Town Draw Pad B - Incident Number nAPP2322752841

All,

XTO is requesting an extension for the current deadline of November 4, 2023, for submitting a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC at the PLU 22 Dog Town Draw Pad B (Incident Number nAPP2322752841). The release occurred on August 6, 2023, and a site assessment was attempted; however, due to frac and flowback operations, the Site could not be accessed and an assessment could not be completed. To ensure the safety of all onsite personnel, remediation activities have been postponed until operations are complete. To complete all remedial activities and submit a remediation work plan or closure report, XTO requests an extension until February 2, 2024.

Thank you,

Melanie Collins

XTO ENERGY

Environmental Technician

melanie.collins@exxonmobil.com

432-556-3756

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 310957

QUESTIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 310957
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2322752841**
Incident Name	**NAPP2322752841 PLU 22 DOG TOWN DRAW PAD B @ 0**
Incident Type	**Produced Water Release**
Incident Status	**Remediation Closure Report Received**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	PLU 22 DOG TOWN DRAW PAD B
Date Release Discovered	08/06/2023
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	*Not answered.*
Produced Water Released (bbls) Details	Cause: Human Error | Other (Specify) | Produced Water | Released: 86 BBL | Recovered: 85 BBL | Lost: 1 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	*Not answered.*
Natural Gas Vented (Mcf) Details	*Not answered.*
Natural Gas Flared (Mcf) Details	*Not answered.*
Other Released Details	*Not answered.*
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	*Not answered.*

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 (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 310957
	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: Garrett Green Title: SHE Coordinator Email: garrett.green@exxonmobil.com Date: 02/02/2024

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 (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 310957
	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 500 and 1000 (ft.)
What method was used to determine the depth to ground water	OCD Imaging Records Lookup
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1000 (ft.) and ½ (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	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 ½ and 1 (mi.)
Any other fresh water well or spring	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between ½ and 1 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between 1 and 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	No

Remediation Plan		
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
Requesting a remediation plan approval with this submission		Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.		
Have the lateral and vertical extents of contamination been fully delineated		Yes
Was this release entirely contained within a lined containment area		No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)		
Chloride	(EPA 300.0 or SM4500 Cl B)	569
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	57.9
GRO+DRO	(EPA SW-846 Method 8015M)	57.9
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		12/12/2023
On what date will (or did) the final sampling or liner inspection occur		12/18/2023
On what date will (or was) the remediation complete(d)		12/21/2023
What is the estimated surface area (in square feet) that will be reclaimed		550
What is the estimated volume (in cubic yards) that will be reclaimed		25
What is the estimated surface area (in square feet) that will be remediated		550
What is the estimated volume (in cubic yards) that will be remediated		25
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.		

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 (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 310957
	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: Garrett Green Title: SHE Coordinator Email: garrett.green@exxonmobil.com Date: 02/02/2024
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.	

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 (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 310957
	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

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 (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 310957
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	**294585**
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	**12/18/2023**
What was the (estimated) number of samples that were to be gathered	**5**
What was the sampling surface area in square feet	**550**

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	550
What was the total volume (cubic yards) remediated	25
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	550
What was the total volume (in cubic yards) reclaimed	25
Summarize any additional remediation activities not included by answers (above)	Site assessment, delineation, and excavation activities were conducted at the Site to address the August 6, 2023, release of produced water. Laboratory analytical results for confirmation soil samples collected from the final excavation extent indicated all COC concentrations were compliant with the Closure Criteria. Based on laboratory analytical results, no further remediation is required. The excavation was backfilled on December 21, 2023, with caliche material purchased locally and the area was recontoured to match pre-existing Site conditions.
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: Garrett Green Title: SHE Coordinator Email: garrett.green@exxonmobil.com Date: 02/02/2024

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 (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 310957
	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

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 310957

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	5380
	Action Number: 310957
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	Remediation Closure approved. All areas not reasonably needed for production or subsequent drilling operations will need to be reclaimed and revegetated as soon as practical. Areas reasonably needed for production or subsequent drilling operations will need to be reclaimed and revegetated as soon as they are no longer reasonably needed. A report for reclamation and revegetation will need to be submitted and approved prior to this incident receiving the final status of "Restoration Complete".	2/16/2024