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	NAPP2205439646
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party XTO Energy	OGRID 5380
Contact Name Adrian Baker	Contact Telephone 432-236-3808
Contact email adrian.baker@exxonmobil.com	Incident # *(assigned by OCD)*
Contact mailing address 6401 Holiday Hill Rd Bldg 5, Midland, Texas, 79707	

Location of Release Source

Latitude 32.21242 Longitude -103.91388

(NAD 83 in decimal degrees to 5 decimal places)

Site Name PLU 213	Site Type Tank Battery
Date Release Discovered 02/12/2022	API# *(if applicable)*

Unit Letter	Section	Township	Range	County
P	18	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) 2.11	Volume Recovered (bbls) 0.00
☒ Produced Water	Volume Released (bbls) 14.14	Volume Recovered (bbls) 00.00
	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 The dump controller on the two phase inlet separator failed, causing the separator to release fluids. A third-party contractor has been retained for remediation purposes.

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2205439646
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? N/A

If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
N/A

Initial Response

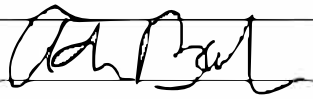
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

- ☒ 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: Adrian Baker
Title: SSHE Coordinator
Signature: 
Date: 2/23/22
email: adrian.baker@exxonmobil.com
Telephone: 432-236-3808

OCD Only

Received by: Ramona Marcus
Date: 2/23/2022

NAPP2205439646

Location:	PLU 213 Battery	
Spill Date:	2/12/2022	
Area 1		
Approximate Area =	1094.00	sq. ft.
Average Saturation (or depth) of spill =	4.00	inches
Average Porosity Factor =	0.25	
VOLUME OF LEAK		
Total Crude Oil =	2.11	bbls
Total Produced Water =	14.14	bbls
TOTAL VOLUME OF LEAK		
Total Crude Oil =	**2.11**	**bbls**
Total Produced Water =	**14.14**	**bbls**
TOTAL VOLUME RECOVERED		
Total Crude Oil =	**0.00**	**bbls**
Total Produced Water =	**0.00**	**bbls**

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

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

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 83624
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rmarcus	None	2/23/2022

Incident ID	NAPP2205439646
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	>100 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☐ Yes ☒ No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: ***Each of the following items must be included in the report.***

☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
☒ Field data
☒ Data table of soil contaminant concentration data
☒ Depth to water determination
☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
☒ Boring or excavation logs
☒ Photographs including date and GIS information
☒ Topographic/Aerial maps
☒ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2205439646
District RP	
Facility ID	
Application ID	

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

Printed Name: __Garrett Green _____ Title: ___Environmental Coordinator_____

Signature:_____ Date: ___07/12/2022_____

email: _Garrett.Green@ExxonMobil.com_____ Telephone: ___575-200-0729_____

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2205439646
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: ***Each of the following items must be included in the plan.***

☒ Detailed description of proposed remediation technique
☒ Scaled sitemap with GPS coordinates showing delineation points
☒ Estimated volume of material to be remediated
☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: ***Each of the following items must be confirmed as part of any request for deferral of remediation.***

☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.

☐ Extents of contamination must be fully delineated.

☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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: Environmental Coordinator

Signature: Garrett Green Date: 07/12/2022

email: Garrett.Green@ExxonMobil.com Telephone: 575-200-0729

OCD Only

Received by: Date:

☒ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: Jennifer Nobui Date: 08/29/2022

ENSOLUM

July 12, 2022

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

Re: Remediation Work Plan
PLU 213 Tank Battery
Incident Number NAPP2205439646
Eddy County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum) on behalf of XTO Energy, Inc. (XTO), has prepared the following Remediation Work Plan to document the site assessment and soil sampling activities completed to date and propose a work plan to address the impacted soil identified at the PLU 213 Tank Battery (Site). The following Work Plan proposes excavation of the impacted soil and to install a soil boring to investigate depth to water to confirm the Closure Criteria at the Site.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit P, Section 18, Township 24 South, Range 30 East, in Eddy County, New Mexico (32.21242° N, 103.91388° W) and is associated with oil and gas exploration and production operations on federal land managed by the New Mexico Bureau of Land Management (BLM).

On February 12, 2022, the dump controller on the two-phase inlet separator failed, resulting in the release of approximately 14.14 barrels (bbls) of produced water and 2.11 bbls of crude oil in an area surrounded by active production equipment. Released fluids were not recovered. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on February 23, 2022. The release was assigned Incident Number NAPP2205439646.

SITE CHARATERIZATION AND CLOSURE CRITERIA

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

Depth to groundwater at the Site is greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. The nearest groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) well C-02109 located approximately 0.67 miles south of the Site. The groundwater well has a reported depth to groundwater of 130 feet bgs and a total depth of

150 feet bgs. All wells used for depth to water determination are depicted on Figure 1 and the referenced well records are included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a dry wash, located approximately 574 feet south of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

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

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

SITE ASSESSMENT AND SOIL SAMPLING ACTIVITIES

On April 26, 2022 and April 28, 2022, Ensolum personnel completed a Site visit to evaluate the release extent based on information provided on the Form C-141 and visual observations. Eight preliminary assessment soil samples (SS01 through SS08) were collected within and around the release extent from a depth of 0.5 feet bgs. Preliminary assessment samples SS01 through SS04 were collected within the release extent in an area containing active production equipment. Preliminary assessment samples SS05 through SS08 were collected around the release extent to confirm the lateral exent of the release. The preliminary soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride Hach® chloride QuanTab® test strips. The release extent and preliminary assessment soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation was completed during the Site visit and a photographic log is included in Appendix B.

The preliminary soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported at or below 4 degrees Celsius (°C) under strict chain-of-custody (COC) procedures to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for preliminary assessment soil samples SS01 and SS04, collected within the release extent, indicated benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Site Closure Criteria. Laboratory analytical results for preliminary soil samples SS02 and SS03, collected within the release extent, indicated TPH-GRO/TPH-DRO and/or TPH concentrations exceeded the Site Closure Criteria.

Laboratory analytical results for preliminary assessment soil samples SS05 through SS08, collected around the release extent, indicated benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride

concentrations were compliant with the most stringent Table 1 Closure Criteria and successfully defined the lateral extent of the release.

PROPOSED REMEDIATION WORK PLAN

XTO proposes installation of a depth to water boring within 0.5 miles of the release to confirm the applied Closure Criteria and excavation of the TPH impacted soil to below the established Closure Criteria.

In order to confirm depth to groundwater is greater than 100 feet bgs at the Site and verify the applied Closure Criteria, Ensolum and XTO propose to complete a depth to water boring within 0.5 miles of the release. The soil boring will be advanced to a depth of approximately 105 feet bgs or until groundwater is encountered. An Ensolum geologist will log and describe soils continuously and will document observations on a lithologic/ soil sampling log. The borehole will be left open for over 72 hours to allow for the potential slow infill of groundwater. Following the 72-hour waiting period depth to groundwater will be measured or the Ensolum geologist will confirm the boring is dry. The borehole will be properly abandoned following New Mexico Office of the State Engineer procedures. Ensolum and XTO will include documentation of the soil boring installation and lithologic/ soil sampling log in the subsequent closure request.

The results from the preliminary assessment soil sampling indicate soil containing elevated TPH concentrations is in an approximately 430 square foot area around soil samples SS02 and SS03. Excavation of impacted soil near the areas of SS02 and SS03 has been initiated. However, laboratory analytical results are currently pending. Once the depth to water boring is complete, if necessary, additional soil removal activities will be completed. Following a review of the final analytical results a Closure Request will be submitted with the final confirmation laboratory analytical results.

The depth to water soil boring will be completed as soon as possible following approval from the surface landowner, receipt of the NMOSE drilling permit, and scheduling with a driller. A Closure Request will be submitted within 90 days of approval of this Work Plan by the NMOCD.

If you have any questions or comments, please contact Ms. Ashley Ager at (970) 496-1093 or aager@ensolum.com.

Sincerely,
Ensolum, LLC

Kalei Jennings
Senior Scientist

Ashley Ager, P.G.
Program Director

cc: Garrett Green, XTO
New Mexico Bureau of Land Management

Appendices:

Figure 1 Site Location Map
Figure 2 Preliminary Soil Sample Locations

Table 1 Soil Sample Analytical Results
Appendix A Referenced Well Records
Appendix B Photographic Log
Appendix C Laboratory Analytical Reports & Chain-of-Custody Documentation
Appendix D NMOCD Notifications

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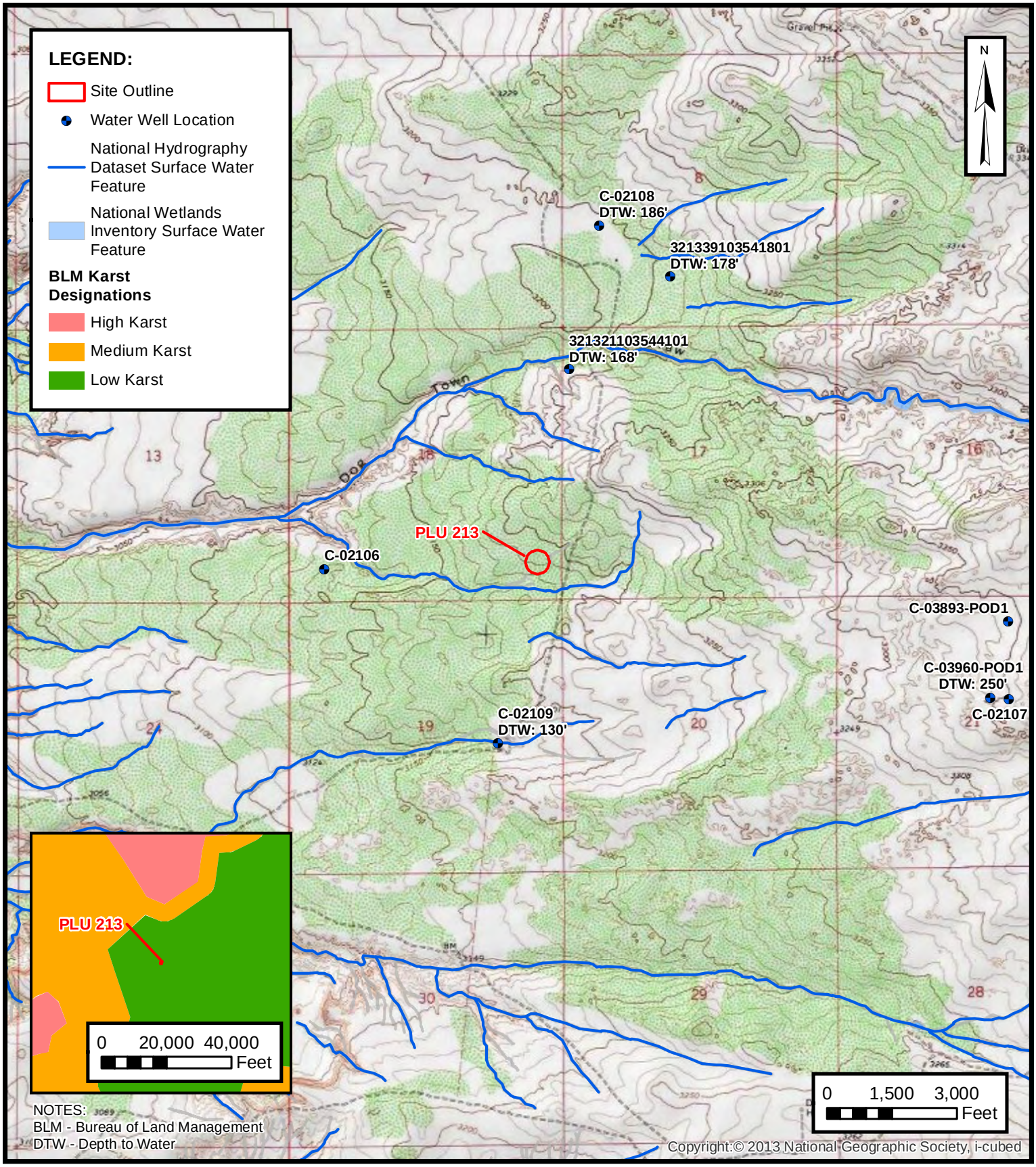
FIGURES

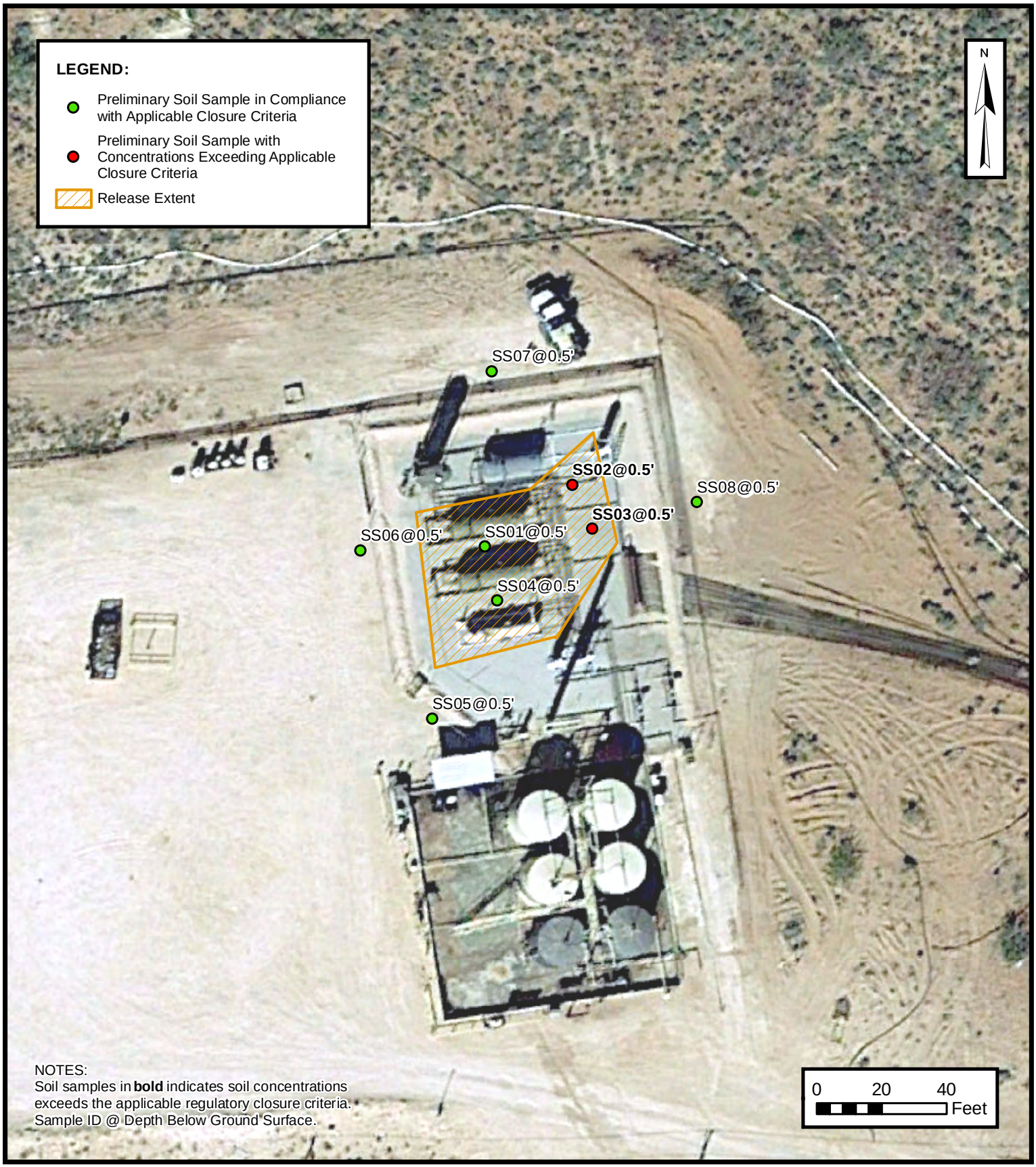


ENSOLUM
Environmental & Hydrogeologic Consultants

SITE RECEPTOR MAP

XTO ENERGY, INC
PLU 213 Tank Battery
NAPP2205439646
Unit P, Sec 18, T24S, R30E
Eddy County, New Mexico

FIGURE
1



ENSOLUM
Environmental & Hydrogeologic Consultants

PRELIMINARY SOIL SAMPLE LOCATIONS

XTO ENERGY, INC
PLU 213 Tank Battery
Incident Number: NAPP2205439646
Unit P, Sec 18, T24S, R30E
Eddy County, New Mexico

FIGURE
2

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TABLES

ENSOLUM

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
PLU 213 Tank Battery
XTO Energy, Inc.
Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Preliminary Assessment Soil Samples										
SS01	04/26/2022	0.5	<0.00198	<0.00396	<49.9	366	<49.9	366	366	9,450
SS02	04/26/2022	0.5	<0.00199	<0.00398	705	1,090	<49.9	**1,800**	1,800	11,900
SS03	04/26/2022	0.5	<0.00200	<0.00401	<50.0	3,090	<50.0	**3,090**	**3,090**	8,670
SS04	04/26/2022	0.5	<0.00202	<0.00403	<49.8	871	<49.8	871	871	2,770
SS05	04/28/2022	0.5	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	78.3
SS06	04/28/2022	0.5	0.00473	0.0148	<50.0	<50.0	<50.0	<50.0	<50.0	118
SS07	04/28/2022	0.5	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	11.3
SS08	04/28/2022	0.5	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	7.06

Notes:
bgs: below ground surface
mg/kg: milligrams per kilogram
NMOCD: New Mexico Oil Conservation Division
BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes
Concentrations in bold exceed the NMOCD Table 1 Closure Criteria or reclamation standard where applicable.□
GRO: Gasoline Range Organics
DRO: Diesel Range Organics
ORO: Oil Range Organics
TPH: Total Petroleum Hydrocarbon

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APPENDIX A

Referenced Well Records

New Mexico Office of the State Engineer
Water Right Summary

get image list

WR File Number: C 02109 **Subbasin:** CUB **Cross Reference:** -

Primary Purpose: STK 72-12-1 LIVESTOCK WATERING

Primary Status: DCL DECLARATION

Total Acres: 0 **Subfile:** - **Header:** -

Total Diversion: 3 **Cause/Case:** -

Owner: TYSON MAHAFFEY

Owner: LESLIE MAHAFFEY

Documents on File

	Trn #	Doc	File/Act	Status 1	Status 2	Transaction Desc.	From/ To	Acres	Diversion	Consumptive
get images	524180	COWNF	2013-03-05	CHG	PRC	C 02109	T	0	0	
	199339	DCL	1984-06-14	DCL	PRC	C 02109	T	0	3	

Current Points of Diversion

(NAD83 UTM in meters)

POD Number	Well Tag	Source	Q 64	Q16	Q4	Sec	Tws	Rng	X	Y	Other Location Desc
C 02109			1	2	4	19	24S	30E	602130	3563412	

Place of Use

Q 256	Q 64	Q16	Q4	Sec	Tws	Rng	Acres	Diversion	CU	Use	Priority	Status	Other Location Desc
							0	3		STK		DCL	NO PLACE OF USE GIVEN.

Source

Acres	Diversion	CU	Use	Priority	Source	Description
0	3		STK		GW	

New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	C 02109	1	2	4	19	24S	30E	602130	3563412

Driller License: **Driller Company:**

Driller Name: UNKNOWN

Drill Start Date:		**Drill Finish Date:**	12/31/1963	**Plug Date:**	
Log File Date:		**PCW Rcv Date:**		**Source:**	
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	40 GPM
Casing Size:	7.00	**Depth Well:**	130 feet	**Depth Water:**	150 feet

National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater | Geographic Area: United States | GO

Click to hideNews Bulletins

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

Groundwater levels for the Nation

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 321205103544701

Minimum number of levels = 1
Save file of selected sites to local disk for future upload

USGS 321205103544701 24S.30E.19.42113

Eddy County, New Mexico
Latitude 32°12'05", Longitude 103°54'47" NAD27
Land-surface elevation 3,188 feet above NAVD88
The depth of the well is 452 feet below land surface.
This well is completed in the Pecos River Basin alluvial aquifer (N100PCSRVR) national aquifer.
This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1958-10-24		D	62610		2958.66	NGVD29	1	Z			A
1958-10-24		D	62611		2960.30	NAVD88	1	Z			A
1958-10-24		D	72019	227.70			1	Z			A
1959-03-19		D	62610		2958.61	NGVD29	1	Z			A
1959-03-19		D	62611		2960.25	NAVD88	1	Z			A
1959-03-19		D	72019	227.75			1	Z			A
1975-12-10		D	62610		2954.58	NGVD29	1	Z			A
1975-12-10		D	62611		2956.22	NAVD88	1	Z			A
1975-12-10		D	72019	231.78			1	Z			A
1976-01-16		D	62610		2949.10	NGVD29	1	Z			A
1976-01-16		D	62611		2950.74	NAVD88	1	Z			A
1976-01-16		D	72019	237.26			1	Z			A
1976-12-01		D	62610		2955.63	NGVD29	1	Z			A
1976-12-01		D	62611		2957.27	NAVD88	1	Z			A
1976-12-01		D	72019	230.73			1	Z			A
1977-01-14		D	62610		2955.74	NGVD29	1	Z			A
1977-01-14		D	62611		2957.38	NAVD88	1	Z			A
1977-01-14		D	72019	230.62			1	Z			A
1983-02-01		D	62610		2950.43	NGVD29	1	Z			A
1983-02-01		D	62611		2952.07	NAVD88	1	Z			A
1983-02-01		D	72019	235.93			1	Z			A
1987-10-15		D	62610		2953.06	NGVD29	1	S			A
1987-10-15		D	62611		2954.70	NAVD88	1	S			A
1987-10-15		D	72019	233.30			1	S			A
1998-01-27		D	62610		2955.34	NGVD29	1	S			A
1998-01-27		D	62611		2956.98	NAVD88	1	S			A
1998-01-27		D	72019	231.02			1	S			A

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

Questions about sites/data?
Feedback on this web site
Automated retrievals
Help
Data Tips
Explanation of terms
Subscribe for system changes
News

Accessibility FOIA Privacy Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey
Title: Groundwater for USA: Water Levels
URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: USGS Water Data Support Team
Page Last Modified: 2022-07-11 21:41:06 EDT
0.3 0.25 nadww02

National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater | Geographic Area: United States | GO

Click to hideNews Bulletins

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

Groundwater levels for the Nation

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

site_no list =

- 321205103544701

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 321205103544701 24S.30E.19.42113

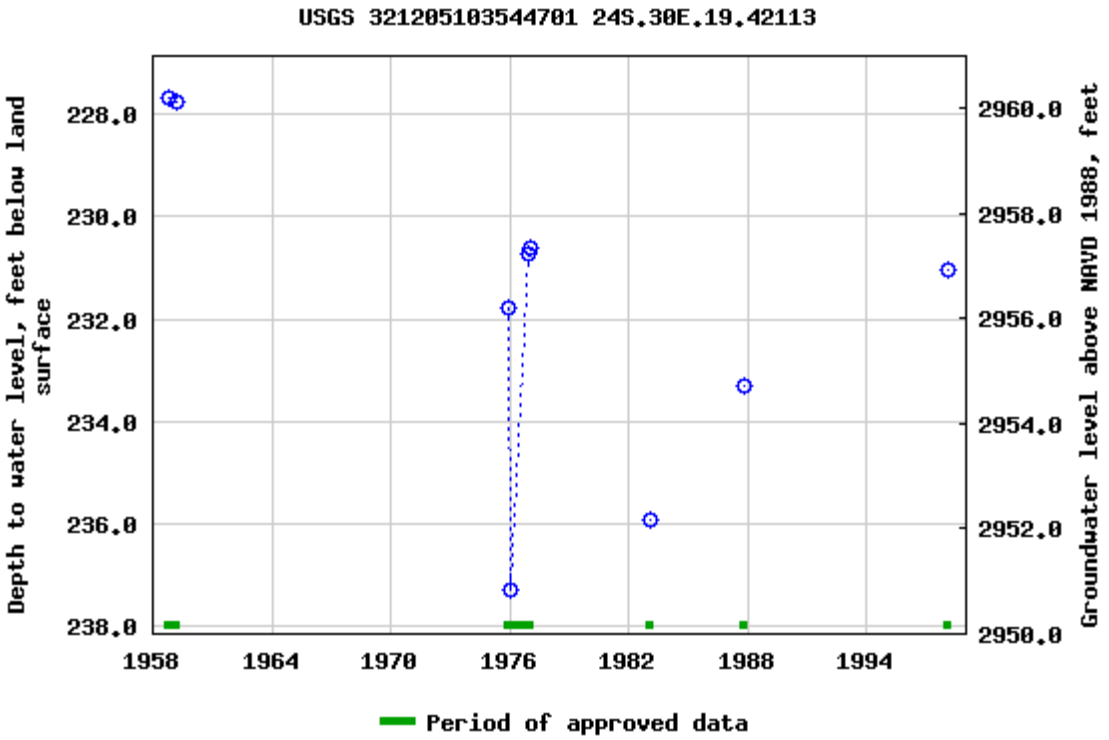
Available data for this site | Groundwater: Field measurements | GO

Eddy County, New Mexico
Hydrologic Unit Code 13060011
Latitude 32°12'05", Longitude 103°54'47" NAD27
Land-surface elevation 3,188 feet above NAVD88
The depth of the well is 452 feet below land surface.
This well is completed in the Pecos River Basin alluvial aquifer (N100PCSRVR) national aquifer.

This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period



Breaks in the plot represent a gap of at least one year between field measurements.
Download a presentation-quality graph

Questions about sites/data?
Feedback on this web site
Automated retrievals
Help
Data Tips
Explanation of terms

Title: Groundwater for USA: Water Levels
URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: USGS Water Data Support Team
Page Last Modified: 2022-07-11 21:40:42 EDT
0.6 0.53 nadww02

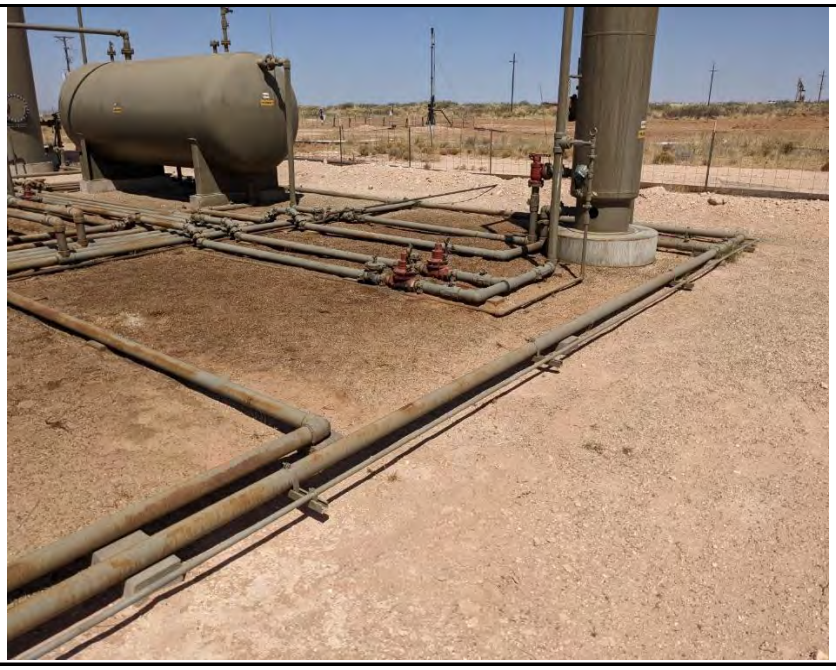
ENSOLUM

APPENDIX B

Photographic Log

ENSOLUM

Photographic Log
XTO Energy, Inc.
PLU 213 Tank Battery
Incident Number NAPP2205439646



Photograph 1 Date: April 26, 2022
Description: Photo of initial release extent taken during site assessment activities.

Photograph 2 Date: April 26, 2022
Description: Photo of initial release extent taken during site assessment activities.

ENSOLUM

APPENDIX C

Laboratory Analytical Reports & Chain of Custody Documentation

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-2250-1
Laboratory Sample Delivery Group: 03E1558014
Client Project/Site: PLU 213

For:
Ensolum
705 W. Wadley
Suite 210
Midland, Texas 79701

Attn: Kalei Jennings

JKramer

Authorized for release by:
5/9/2022 2:48:23 PM

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

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Ensolum
Project/Site: PLU 213

Laboratory Job ID: 890-2250-1
SDG: 03E1558014

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Eurofins Carlsbad
5/9/2022

Definitions/Glossary

Client: Ensolum
Project/Site: PLU 213

Job ID: 890-2250-1
SDG: 03E1558014

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Ensolum
Project/Site: PLU 213

Job ID: 890-2250-1
SDG: 03E1558014

Job ID: 890-2250-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-2250-1

Comments
No additional comments.

Receipt
The samples were received on 4/27/2022 8:21 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 was 0.8º C.

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

GC Semi VOA
Method 8015B NM: The wrong vials were typed into the physical sequence for CCV injection. The primary and final verifications were acceptable and based on that and all other LCS/LCSD reporting acceptable the data was qualified and reported.

(CCV 880-24609/28) and (CCV 880-24609/39)

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

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

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

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

Client Sample Results

Client: Ensolum
Project/Site: PLU 213

Job ID: 890-2250-1
SDG: 03E1558014

Client Sample ID: SS01

Lab Sample ID: 890-2250-1
Matrix: Solid
Date Collected: 04/26/22 10:25
Date Received: 04/27/22 08:21
Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/07/22 13:13	05/08/22 19:24	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/07/22 13:13	05/08/22 19:24	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/07/22 13:13	05/08/22 19:24	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		05/07/22 13:13	05/08/22 19:24	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/07/22 13:13	05/08/22 19:24	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		05/07/22 13:13	05/08/22 19:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*198*	*S1+*	*70 - 130*	*05/07/22 13:13*	*05/08/22 19:24*	*1*
1,4-Difluorobenzene (Surr)	*79*		*70 - 130*	*05/07/22 13:13*	*05/08/22 19:24*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			05/09/22 11:41	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**366**		49.9		mg/Kg			05/03/22 16:49	1

Method: 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		04/28/22 13:59	05/02/22 17:36	1
Diesel Range Organics (Over C10-C28)	**366**		49.9		mg/Kg		04/28/22 13:59	05/02/22 17:36	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/28/22 13:59	05/02/22 17:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*118*		*70 - 130*	*04/28/22 13:59*	*05/02/22 17:36*	*1*
o-Terphenyl	*123*		*70 - 130*	*04/28/22 13:59*	*05/02/22 17:36*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**9450**		99.6		mg/Kg			05/01/22 20:30	20

Client Sample ID: SS01A

Lab Sample ID: 890-2250-2
Matrix: Solid
Date Collected: 04/26/22 13:30
Date Received: 04/27/22 08:21
Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U F1 F2	0.00199		mg/Kg		05/07/22 13:16	05/09/22 07:16	1
Toluene	<0.00199	U F1 F2	0.00199		mg/Kg		05/07/22 13:16	05/09/22 07:16	1
Ethylbenzene	<0.00199	U F1 F2	0.00199		mg/Kg		05/07/22 13:16	05/09/22 07:16	1
m-Xylene & p-Xylene	<0.00398	U F1 F2	0.00398		mg/Kg		05/07/22 13:16	05/09/22 07:16	1
o-Xylene	<0.00199	U F1 F2	0.00199		mg/Kg		05/07/22 13:16	05/09/22 07:16	1
Xylenes, Total	<0.00398	U F1 F2	0.00398		mg/Kg		05/07/22 13:16	05/09/22 07:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*05/07/22 13:16*	*05/09/22 07:16*	*1*

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: PLU 213

Job ID: 890-2250-1
SDG: 03E1558014

Client Sample ID: SS01A

Lab Sample ID: 890-2250-2
Matrix: Solid
Date Collected: 04/26/22 13:30
Date Received: 04/27/22 08:21
Sample Depth: 1

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*05/07/22 13:16*	*05/09/22 07:16*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			05/09/22 11:41	1

Method: 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			05/03/22 16:49	1

Method: 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		04/28/22 13:59	05/02/22 17:58	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/28/22 13:59	05/02/22 17:58	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/28/22 13:59	05/02/22 17:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*70 - 130*	*04/28/22 13:59*	*05/02/22 17:58*	*1*
o-Terphenyl	*109*		*70 - 130*	*04/28/22 13:59*	*05/02/22 17:58*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**174**		4.96	mg/Kg			05/01/22 20:39	1

Client Sample ID: SS01B

Lab Sample ID: 890-2250-3
Matrix: Solid
Date Collected: 04/26/22 13:40
Date Received: 04/27/22 08:21
Sample Depth: 3

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/07/22 13:16	05/09/22 07:37	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/07/22 13:16	05/09/22 07:37	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/07/22 13:16	05/09/22 07:37	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/07/22 13:16	05/09/22 07:37	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/07/22 13:16	05/09/22 07:37	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/07/22 13:16	05/09/22 07:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*05/07/22 13:16*	*05/09/22 07:37*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*05/07/22 13:16*	*05/09/22 07:37*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			05/09/22 11:41	1

Method: 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			05/03/22 16:49	1

Client Sample Results

Client: Ensolum
Project/Site: PLU 213

Job ID: 890-2250-1
SDG: 03E1558014

Client Sample ID: SS01B

Lab Sample ID: 890-2250-3
Matrix: Solid
Date Collected: 04/26/22 13:40
Date Received: 04/27/22 08:21
Sample Depth: 3

Method: 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		04/28/22 13:59	05/02/22 18:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/28/22 13:59	05/02/22 18:19	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/28/22 13:59	05/02/22 18:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*04/28/22 13:59*	*05/02/22 18:19*	*1*
o-Terphenyl	*102*		*70 - 130*	*04/28/22 13:59*	*05/02/22 18:19*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**103**		5.00		mg/Kg			05/01/22 21:06	1

Client Sample ID: SS01C

Lab Sample ID: 890-2250-4
Matrix: Solid
Date Collected: 04/26/22 14:00
Date Received: 04/27/22 08:21
Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/07/22 13:16	05/09/22 07:57	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/07/22 13:16	05/09/22 07:57	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/07/22 13:16	05/09/22 07:57	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/07/22 13:16	05/09/22 07:57	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/07/22 13:16	05/09/22 07:57	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/07/22 13:16	05/09/22 07:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*05/07/22 13:16*	*05/09/22 07:57*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*05/07/22 13:16*	*05/09/22 07:57*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/09/22 11:41	1

Method: 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			05/03/22 16:49	1

Method: 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		04/28/22 13:59	05/02/22 18:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/28/22 13:59	05/02/22 18:41	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/28/22 13:59	05/02/22 18:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*04/28/22 13:59*	*05/02/22 18:41*	*1*
o-Terphenyl	*111*		*70 - 130*	*04/28/22 13:59*	*05/02/22 18:41*	*1*

Client Sample Results

Client: Ensolum
Project/Site: PLU 213

Job ID: 890-2250-1
SDG: 03E1558014

Client Sample ID: SS01C
Lab Sample ID: 890-2250-4

Date Collected: 04/26/22 14:00
Matrix: Solid
Date Received: 04/27/22 08:21
Sample Depth: 4

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**41.0**		4.98		mg/Kg			05/01/22 21:15	1

Client Sample ID: SS02
Lab Sample ID: 890-2250-5

Date Collected: 04/26/22 10:15
Matrix: Solid
Date Received: 04/27/22 08:21
Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/07/22 13:16	05/09/22 08:17	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/07/22 13:16	05/09/22 08:17	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/07/22 13:16	05/09/22 08:17	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/07/22 13:16	05/09/22 08:17	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/07/22 13:16	05/09/22 08:17	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/07/22 13:16	05/09/22 08:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*05/07/22 13:16*	*05/09/22 08:17*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*05/07/22 13:16*	*05/09/22 08:17*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/09/22 11:41	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**1800**		49.9		mg/Kg			05/03/22 16:49	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**705**		49.9		mg/Kg		04/28/22 13:59	05/02/22 19:03	1
Diesel Range Organics (Over C10-C28)	**1090**		49.9		mg/Kg		04/28/22 13:59	05/02/22 19:03	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/28/22 13:59	05/02/22 19:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*109*		*70 - 130*	*04/28/22 13:59*	*05/02/22 19:03*	*1*
o-Terphenyl	*106*		*70 - 130*	*04/28/22 13:59*	*05/02/22 19:03*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**11900**		99.0		mg/Kg			05/01/22 21:23	20

Client Sample Results

Client: Ensolum
Project/Site: PLU 213

Job ID: 890-2250-1
SDG: 03E1558014

Client Sample ID: SS02A

Lab Sample ID: 890-2250-6
Matrix: Solid
Date Collected: 04/26/22 10:45
Date Received: 04/27/22 08:21
Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/07/22 13:16	05/09/22 08:38	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/07/22 13:16	05/09/22 08:38	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/07/22 13:16	05/09/22 08:38	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/07/22 13:16	05/09/22 08:38	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/07/22 13:16	05/09/22 08:38	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/07/22 13:16	05/09/22 08:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*05/07/22 13:16*	*05/09/22 08:38*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*05/07/22 13:16*	*05/09/22 08:38*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/09/22 11:41	1

Method: 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			05/03/22 16:49	1

Method: 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		04/28/22 13:59	05/02/22 19:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/28/22 13:59	05/02/22 19:46	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/28/22 13:59	05/02/22 19:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 130*	*04/28/22 13:59*	*05/02/22 19:46*	*1*
o-Terphenyl	*111*		*70 - 130*	*04/28/22 13:59*	*05/02/22 19:46*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**241**		4.97		mg/Kg			05/01/22 21:32	1

Client Sample ID: SS02B

Lab Sample ID: 890-2250-7
Matrix: Solid
Date Collected: 04/26/22 11:40
Date Received: 04/27/22 08:21
Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/07/22 13:16	05/09/22 08:58	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/07/22 13:16	05/09/22 08:58	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/07/22 13:16	05/09/22 08:58	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/07/22 13:16	05/09/22 08:58	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/07/22 13:16	05/09/22 08:58	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/07/22 13:16	05/09/22 08:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*05/07/22 13:16*	*05/09/22 08:58*	*1*

Client Sample Results

Client: Ensolum
Project/Site: PLU 213

Job ID: 890-2250-1
SDG: 03E1558014

Client Sample ID: SS02B

Date Collected: 04/26/22 11:40
Date Received: 04/27/22 08:21
Sample Depth: 4

Lab Sample ID: 890-2250-7
Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*05/07/22 13:16*	*05/09/22 08:58*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			05/09/22 11:41	1

Method: 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			05/03/22 16:49	1

Method: 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		04/28/22 13:59	05/02/22 20:07	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/28/22 13:59	05/02/22 20:07	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/28/22 13:59	05/02/22 20:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*04/28/22 13:59*	*05/02/22 20:07*	*1*
o-Terphenyl	*107*		*70 - 130*	*04/28/22 13:59*	*05/02/22 20:07*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**154**		5.00		mg/Kg			05/01/22 21:41	1

Client Sample ID: SS03

Date Collected: 04/26/22 10:35
Date Received: 04/27/22 08:21
Sample Depth: 0.5

Lab Sample ID: 890-2250-8
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/07/22 13:16	05/09/22 09:19	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/07/22 13:16	05/09/22 09:19	1
Ethylbenzene	**0.00244**		0.00200		mg/Kg		05/07/22 13:16	05/09/22 09:19	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		05/07/22 13:16	05/09/22 09:19	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/07/22 13:16	05/09/22 09:19	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		05/07/22 13:16	05/09/22 09:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*05/07/22 13:16*	*05/09/22 09:19*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*05/07/22 13:16*	*05/09/22 09:19*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			05/09/22 11:41	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**3090**		50.0		mg/Kg			05/03/22 16:49	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU 213

Job ID: 890-2250-1
SDG: 03E1558014

Client Sample ID: SS03

Date Collected: 04/26/22 10:35
Date Received: 04/27/22 08:21
Sample Depth: 0.5

Lab Sample ID: 890-2250-8
Matrix: Solid

Method: 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		04/28/22 13:59	05/02/22 20:29	1
Diesel Range Organics (Over C10-C28)	**3090**		50.0		mg/Kg		04/28/22 13:59	05/02/22 20:29	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/28/22 13:59	05/02/22 20:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 130*	*04/28/22 13:59*	*05/02/22 20:29*	*1*
o-Terphenyl	*109*		*70 - 130*	*04/28/22 13:59*	*05/02/22 20:29*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8670**		50.0		mg/Kg			05/01/22 21:50	10

Client Sample ID: SS03A

Date Collected: 04/26/22 13:15
Date Received: 04/27/22 08:21
Sample Depth: 4

Lab Sample ID: 890-2250-9
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/07/22 13:16	05/09/22 09:39	1
Toluene	**0.00211**		0.00200		mg/Kg		05/07/22 13:16	05/09/22 09:39	1
Ethylbenzene	**0.00234**		0.00200		mg/Kg		05/07/22 13:16	05/09/22 09:39	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		05/07/22 13:16	05/09/22 09:39	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/07/22 13:16	05/09/22 09:39	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		05/07/22 13:16	05/09/22 09:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*132*	*S1+*	*70 - 130*	*05/07/22 13:16*	*05/09/22 09:39*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*05/07/22 13:16*	*05/09/22 09:39*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00445**		0.00401		mg/Kg			05/09/22 11:41	1

Method: 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			05/03/22 16:49	1

Method: 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		04/28/22 13:59	05/02/22 20:51	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/28/22 13:59	05/02/22 20:51	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/28/22 13:59	05/02/22 20:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*04/28/22 13:59*	*05/02/22 20:51*	*1*
o-Terphenyl	*109*		*70 - 130*	*04/28/22 13:59*	*05/02/22 20:51*	*1*

Client Sample Results

Client: Ensolum
Project/Site: PLU 213

Job ID: 890-2250-1
SDG: 03E1558014

Client Sample ID: SS03A
Lab Sample ID: 890-2250-9

Date Collected: 04/26/22 13:15
Matrix: Solid
Date Received: 04/27/22 08:21
Sample Depth: 4

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**248**		5.04		mg/Kg			05/01/22 22:16	1

Client Sample ID: SS04
Lab Sample ID: 890-2250-10

Date Collected: 04/26/22 10:40
Matrix: Solid
Date Received: 04/27/22 08:21
Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/07/22 13:16	05/09/22 09:59	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/07/22 13:16	05/09/22 09:59	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/07/22 13:16	05/09/22 09:59	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		05/07/22 13:16	05/09/22 09:59	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/07/22 13:16	05/09/22 09:59	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		05/07/22 13:16	05/09/22 09:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*05/07/22 13:16*	*05/09/22 09:59*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*05/07/22 13:16*	*05/09/22 09:59*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			05/09/22 11:41	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**871**		49.8		mg/Kg			05/03/22 16:49	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		04/28/22 13:59	05/02/22 21:12	1
Diesel Range Organics (Over C10-C28)	**871**		49.8		mg/Kg		04/28/22 13:59	05/02/22 21:12	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/28/22 13:59	05/02/22 21:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 130*	*04/28/22 13:59*	*05/02/22 21:12*	*1*
o-Terphenyl	*96*		*70 - 130*	*04/28/22 13:59*	*05/02/22 21:12*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2770**		25.0		mg/Kg			05/01/22 22:25	5

Client Sample Results

Client: Ensolum
Project/Site: PLU 213

Job ID: 890-2250-1
SDG: 03E1558014

Client Sample ID: SS04B

Lab Sample ID: 890-2250-11
Matrix: Solid
Date Collected: 04/26/22 12:10
Date Received: 04/27/22 08:21
Sample Depth: 3

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/07/22 13:16	05/09/22 10:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/07/22 13:16	05/09/22 10:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/07/22 13:16	05/09/22 10:20	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/07/22 13:16	05/09/22 10:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/07/22 13:16	05/09/22 10:20	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/07/22 13:16	05/09/22 10:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*05/07/22 13:16*	*05/09/22 10:20*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*05/07/22 13:16*	*05/09/22 10:20*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/09/22 11:41	1

Method: 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			05/03/22 16:49	1

Method: 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		04/28/22 13:59	05/02/22 21:34	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/28/22 13:59	05/02/22 21:34	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/28/22 13:59	05/02/22 21:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 130*	*04/28/22 13:59*	*05/02/22 21:34*	*1*
o-Terphenyl	*109*		*70 - 130*	*04/28/22 13:59*	*05/02/22 21:34*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**142**		4.98		mg/Kg			05/01/22 22:52	1

Client Sample ID: FS01

Lab Sample ID: 890-2250-12
Matrix: Solid
Date Collected: 04/26/22 14:30
Date Received: 04/27/22 08:21
Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/07/22 13:16	05/09/22 12:10	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/07/22 13:16	05/09/22 12:10	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/07/22 13:16	05/09/22 12:10	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/07/22 13:16	05/09/22 12:10	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/07/22 13:16	05/09/22 12:10	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/07/22 13:16	05/09/22 12:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*05/07/22 13:16*	*05/09/22 12:10*	*1*

Client Sample Results

Client: Ensolum
Project/Site: PLU 213

Job ID: 890-2250-1
SDG: 03E1558014

Client Sample ID: FS01
Date Collected: 04/26/22 14:30
Date Received: 04/27/22 08:21
Sample Depth: 0.5

Lab Sample ID: 890-2250-12
Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*05/07/22 13:16*	*05/09/22 12:10*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/09/22 11:41	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**209**		50.0		mg/Kg			05/03/22 16:49	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**209**		50.0		mg/Kg		04/28/22 13:59	05/02/22 21:56	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/28/22 13:59	05/02/22 21:56	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/28/22 13:59	05/02/22 21:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*04/28/22 13:59*	*05/02/22 21:56*	*1*
o-Terphenyl	*109*		*70 - 130*	*04/28/22 13:59*	*05/02/22 21:56*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**16900**		249		mg/Kg			05/01/22 23:01	50

Surrogate Summary

Client: Ensolum
Project/Site: PLU 213

Job ID: 890-2250-1
SDG: 03E1558014

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)
880-14137-A-4-C MS	Matrix Spike	208 S1+	86
880-14137-A-4-D MSD	Matrix Spike Duplicate	185 S1+	78
890-2250-1	SS01	198 S1+	79
890-2250-2	SS01A	101	90
890-2250-2 MS	SS01A	110	98
890-2250-2 MSD	SS01A	97	91
890-2250-3	SS01B	108	88
890-2250-4	SS01C	114	98
890-2250-5	SS02	115	92
890-2250-6	SS02A	118	99
890-2250-7	SS02B	113	95
890-2250-8	SS03	105	87
890-2250-9	SS03A	132 S1+	102
890-2250-10	SS04	114	90
890-2250-11	SS04B	111	93
890-2250-12	FS01	113	98
LCS 880-25030/1-A	Lab Control Sample	192 S1+	77
LCS 880-25031/1-A	Lab Control Sample	105	93
LCSD 880-25030/2-A	Lab Control Sample Dup	190 S1+	90
LCSD 880-25031/2-A	Lab Control Sample Dup	109	99
MB 880-25029/5-A	Method Blank	130	72
MB 880-25030/5-A	Method Blank	136 S1+	72
MB 880-25031/5-A	Method Blank	100	92

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)
890-2249-A-1-D MS	Matrix Spike	85	84
890-2249-A-1-E MSD	Matrix Spike Duplicate	88	84
890-2250-1	SS01	118	123
890-2250-2	SS01A	100	109
890-2250-3	SS01B	95	102
890-2250-4	SS01C	104	111
890-2250-5	SS02	109	106
890-2250-6	SS02A	102	111
890-2250-7	SS02B	96	107
890-2250-8	SS03	102	109
890-2250-9	SS03A	98	109
890-2250-10	SS04	91	96
890-2250-11	SS04B	102	109
890-2250-12	FS01	101	109
LCS 880-24438/2-A	Lab Control Sample	104	108
LCSD 880-24438/3-A	Lab Control Sample Dup	103	108

Surrogate Summary

Client: Ensolum Job ID: 890-2250-1
Project/Site: PLU 213 SDG: 03E1558014

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

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

		Percent Surrogate Recovery (Acceptance Limits)									
		1CO1	OTPH1								
Lab Sample ID	Client Sample ID	(70-130)	(70-130)								
MB 880-24438/1-A	Method Blank	94	107								

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: PLU 213

Job ID: 890-2250-1
SDG: 03E1558014

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-25029/5-A
Matrix: Solid
Analysis Batch: 25032

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 25029

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000400	U	0.000400		mg/Kg		05/07/22 13:06	05/07/22 20:28	1
Toluene	<0.000400	U	0.000400		mg/Kg		05/07/22 13:06	05/07/22 20:28	1
Ethylbenzene	<0.000400	U	0.000400		mg/Kg		05/07/22 13:06	05/07/22 20:28	1
m-Xylene & p-Xylene	<0.000800	U	0.000800		mg/Kg		05/07/22 13:06	05/07/22 20:28	1
o-Xylene	<0.000400	U	0.000400		mg/Kg		05/07/22 13:06	05/07/22 20:28	1
Xylenes, Total	<0.000800	U	0.000800		mg/Kg		05/07/22 13:06	05/07/22 20:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*130*		*70 - 130*	*05/07/22 13:06*	*05/07/22 20:28*	*1*
1,4-Difluorobenzene (Surr)	*72*		*70 - 130*	*05/07/22 13:06*	*05/07/22 20:28*	*1*

Lab Sample ID: MB 880-25030/5-A
Matrix: Solid
Analysis Batch: 25032

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 25030

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/07/22 13:13	05/08/22 09:29	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/07/22 13:13	05/08/22 09:29	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/07/22 13:13	05/08/22 09:29	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/07/22 13:13	05/08/22 09:29	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/07/22 13:13	05/08/22 09:29	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/07/22 13:13	05/08/22 09:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*136*	*S1+*	*70 - 130*	*05/07/22 13:13*	*05/08/22 09:29*	*1*
1,4-Difluorobenzene (Surr)	*72*		*70 - 130*	*05/07/22 13:13*	*05/08/22 09:29*	*1*

Lab Sample ID: LCS 880-25030/1-A
Matrix: Solid
Analysis Batch: 25032

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 25030

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09461		mg/Kg		95	70 - 130		
Toluene			0.100	0.08600		mg/Kg		86	70 - 130		
Ethylbenzene			0.100	0.09775		mg/Kg		98	70 - 130		
m-Xylene & p-Xylene			0.200	0.1960		mg/Kg		98	70 - 130		
o-Xylene			0.100	0.1008		mg/Kg		101	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*192*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*77*		*70 - 130*

Lab Sample ID: LCSD 880-25030/2-A
Matrix: Solid
Analysis Batch: 25032

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 25030

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09331		mg/Kg		93	70 - 130	1	35

QC Sample Results

Client: Ensolum
Project/Site: PLU 213

Job ID: 890-2250-1
SDG: 03E1558014

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

Lab Sample ID: LCSD 880-25030/2-A
Matrix: Solid
Analysis Batch: 25032

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 25030

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.08691		mg/Kg		87	70 - 130	1	35
Ethylbenzene			0.100	0.09901		mg/Kg		99	70 - 130	1	35
m-Xylene & p-Xylene			0.200	0.1995		mg/Kg		100	70 - 130	2	35
o-Xylene			0.100	0.09966		mg/Kg		100	70 - 130	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*190*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*

Lab Sample ID: 880-14137-A-4-C MS
Matrix: Solid
Analysis Batch: 25032

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 25030

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00202	U F1 F2	0.100	0.07844		mg/Kg		78	70 - 130
Toluene	<0.00202	U F1 F2	0.100	0.07387		mg/Kg		74	70 - 130
Ethylbenzene	<0.00202	U F1 F2	0.100	0.08485		mg/Kg		85	70 - 130
m-Xylene & p-Xylene	<0.00403	U F1 F2	0.200	0.1720		mg/Kg		86	70 - 130
o-Xylene	<0.00202	U F1 F2	0.100	0.08515		mg/Kg		85	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*208*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*

Lab Sample ID: 880-14137-A-4-D MSD
Matrix: Solid
Analysis Batch: 25032

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 25030

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00202	U F1 F2	0.0998	0.04258	F1 F2	mg/Kg		43	70 - 130	59	35
Toluene	<0.00202	U F1 F2	0.0998	0.04503	F1 F2	mg/Kg		45	70 - 130	49	35
Ethylbenzene	<0.00202	U F1 F2	0.0998	0.05092	F1 F2	mg/Kg		51	70 - 130	50	35
m-Xylene & p-Xylene	<0.00403	U F1 F2	0.200	0.1056	F1 F2	mg/Kg		53	70 - 130	48	35
o-Xylene	<0.00202	U F1 F2	0.0998	0.02247	F1 F2	mg/Kg		23	70 - 130	116	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*185*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*78*		*70 - 130*

Lab Sample ID: MB 880-25031/5-A
Matrix: Solid
Analysis Batch: 25034

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 25031

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/07/22 13:16	05/09/22 06:48	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/07/22 13:16	05/09/22 06:48	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/07/22 13:16	05/09/22 06:48	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/07/22 13:16	05/09/22 06:48	1

QC Sample Results

Client: Ensolum
Project/Site: PLU 213

Job ID: 890-2250-1
SDG: 03E1558014

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

Lab Sample ID: MB 880-25031/5-A
Matrix: Solid
Analysis Batch: 25034

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 25031

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/07/22 13:16	05/09/22 06:48	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/07/22 13:16	05/09/22 06:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*05/07/22 13:16*	*05/09/22 06:48*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*05/07/22 13:16*	*05/09/22 06:48*	*1*

Lab Sample ID: LCS 880-25031/1-A
Matrix: Solid
Analysis Batch: 25034

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 25031

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.07663		mg/Kg		77	70 - 130		
Toluene			0.100	0.08342		mg/Kg		83	70 - 130		
Ethylbenzene			0.100	0.08407		mg/Kg		84	70 - 130		
m-Xylene & p-Xylene			0.200	0.1762		mg/Kg		88	70 - 130		
o-Xylene			0.100	0.09680		mg/Kg		97	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*

Lab Sample ID: LCSD 880-25031/2-A
Matrix: Solid
Analysis Batch: 25034

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 25031

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09003		mg/Kg		90	70 - 130	16	35
Toluene			0.100	0.09126		mg/Kg		91	70 - 130	9	35
Ethylbenzene			0.100	0.09457		mg/Kg		95	70 - 130	12	35
m-Xylene & p-Xylene			0.200	0.1967		mg/Kg		98	70 - 130	11	35
o-Xylene			0.100	0.1068		mg/Kg		107	70 - 130	10	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: 890-2250-2 MS
Matrix: Solid
Analysis Batch: 25034

Client Sample ID: SS01A
Prep Type: Total/NA
Prep Batch: 25031

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00199	U F1 F2	0.100	0.05235	F1	mg/Kg		52	70 - 130		
Toluene	<0.00199	U F1 F2	0.100	0.05698	F1	mg/Kg		56	70 - 130		
Ethylbenzene	<0.00199	U F1 F2	0.100	0.05914	F1	mg/Kg		58	70 - 130		
m-Xylene & p-Xylene	<0.00398	U F1 F2	0.200	0.1271	F1	mg/Kg		63	70 - 130		
o-Xylene	<0.00199	U F1 F2	0.100	0.06965		mg/Kg		70	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: PLU 213

Job ID: 890-2250-1
SDG: 03E1558014

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

Lab Sample ID: 890-2250-2 MS
Matrix: Solid
Analysis Batch: 25034

Client Sample ID: SS01A
Prep Type: Total/NA
Prep Batch: 25031

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: 890-2250-2 MSD
Matrix: Solid
Analysis Batch: 25034

Client Sample ID: SS01A
Prep Type: Total/NA
Prep Batch: 25031

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U F1 F2	0.0996	0.01614	F1 F2	mg/Kg		16	70 - 130	106	35
Toluene	<0.00199	U F1 F2	0.0996	0.01901	F1 F2	mg/Kg		18	70 - 130	100	35
Ethylbenzene	<0.00199	U F1 F2	0.0996	0.02118	F1 F2	mg/Kg		21	70 - 130	95	35
m-Xylene & p-Xylene	<0.00398	U F1 F2	0.199	0.04444	F1 F2	mg/Kg		21	70 - 130	96	35
o-Xylene	<0.00199	U F1 F2	0.0996	0.02422	F1 F2	mg/Kg		24	70 - 130	97	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*

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

Lab Sample ID: MB 880-24438/1-A
Matrix: Solid
Analysis Batch: 24609

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 24438

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		04/28/22 13:59	05/02/22 14:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/28/22 13:59	05/02/22 14:00	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/28/22 13:59	05/02/22 14:00	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*94*		*70 - 130*	*04/28/22 13:59*	*05/02/22 14:00*	*1*
o-Terphenyl	*107*		*70 - 130*	*04/28/22 13:59*	*05/02/22 14:00*	*1*

Lab Sample ID: LCS 880-24438/2-A
Matrix: Solid
Analysis Batch: 24609

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 24438

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	908.3		mg/Kg		91	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	991.2		mg/Kg		99	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	*104*		*70 - 130*
o-Terphenyl	*108*		*70 - 130*

QC Sample Results

Client: Ensolum
Project/Site: PLU 213

Job ID: 890-2250-1
SDG: 03E1558014

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

Lab Sample ID: LCSD 880-24438/3-A
Matrix: Solid
Analysis Batch: 24609

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 24438

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	908.3		mg/Kg		91	70 - 130	0	20
Diesel Range Organics (Over C10-C28)			1000	988.6		mg/Kg		99	70 - 130	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*103*		*70 - 130*
o-Terphenyl	*108*		*70 - 130*

Lab Sample ID: 890-2249-A-1-D MS
Matrix: Solid
Analysis Batch: 24609

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 24438

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	1000	789.6		mg/Kg		79	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	1000	816.9		mg/Kg		82	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*85*		*70 - 130*
o-Terphenyl	*84*		*70 - 130*

Lab Sample ID: 890-2249-A-1-E MSD
Matrix: Solid
Analysis Batch: 24609

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 24438

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	831.8		mg/Kg		83	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	<50.0	U	998	818.2		mg/Kg		82	70 - 130	0	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*88*		*70 - 130*
o-Terphenyl	*84*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-24411/1-A
Matrix: Solid
Analysis Batch: 24591

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			05/01/22 19:20	1

QC Sample Results

Client: Ensolum
Project/Site: PLU 213

Job ID: 890-2250-1
SDG: 03E1558014

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-24411/2-A
Matrix: Solid
Analysis Batch: 24591

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	235.0		mg/Kg		94	90 - 110		

Lab Sample ID: LCSD 880-24411/3-A
Matrix: Solid
Analysis Batch: 24591

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	235.6		mg/Kg		94	90 - 110	0	20

Lab Sample ID: 890-2250-8 MS
Matrix: Solid
Analysis Batch: 24591

Client Sample ID: SS03
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	8670		2500	11400		mg/Kg		109	90 - 110		

Lab Sample ID: 890-2250-8 MSD
Matrix: Solid
Analysis Batch: 24591

Client Sample ID: SS03
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	8670		2500	11130		mg/Kg		99	90 - 110	2	20

QC Association Summary

Client: Ensolum
Project/Site: PLU 213

Job ID: 890-2250-1
SDG: 03E1558014

GC VOA

Prep Batch: 25029

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-25029/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 25030

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2250-1	SS01	Total/NA	Solid	5035	
MB 880-25030/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-25030/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-25030/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-14137-A-4-C MS	Matrix Spike	Total/NA	Solid	5035	
880-14137-A-4-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 25031

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2250-2	SS01A	Total/NA	Solid	5035	
890-2250-3	SS01B	Total/NA	Solid	5035	
890-2250-4	SS01C	Total/NA	Solid	5035	
890-2250-5	SS02	Total/NA	Solid	5035	
890-2250-6	SS02A	Total/NA	Solid	5035	
890-2250-7	SS02B	Total/NA	Solid	5035	
890-2250-8	SS03	Total/NA	Solid	5035	
890-2250-9	SS03A	Total/NA	Solid	5035	
890-2250-10	SS04	Total/NA	Solid	5035	
890-2250-11	SS04B	Total/NA	Solid	5035	
890-2250-12	FS01	Total/NA	Solid	5035	
MB 880-25031/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-25031/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-25031/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2250-2 MS	SS01A	Total/NA	Solid	5035	
890-2250-2 MSD	SS01A	Total/NA	Solid	5035	

Analysis Batch: 25032

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2250-1	SS01	Total/NA	Solid	8021B	25030
MB 880-25029/5-A	Method Blank	Total/NA	Solid	8021B	25029
MB 880-25030/5-A	Method Blank	Total/NA	Solid	8021B	25030
LCS 880-25030/1-A	Lab Control Sample	Total/NA	Solid	8021B	25030
LCSD 880-25030/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	25030
880-14137-A-4-C MS	Matrix Spike	Total/NA	Solid	8021B	25030
880-14137-A-4-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	25030

Analysis Batch: 25034

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2250-2	SS01A	Total/NA	Solid	8021B	25031
890-2250-3	SS01B	Total/NA	Solid	8021B	25031
890-2250-4	SS01C	Total/NA	Solid	8021B	25031
890-2250-5	SS02	Total/NA	Solid	8021B	25031
890-2250-6	SS02A	Total/NA	Solid	8021B	25031
890-2250-7	SS02B	Total/NA	Solid	8021B	25031
890-2250-8	SS03	Total/NA	Solid	8021B	25031
890-2250-9	SS03A	Total/NA	Solid	8021B	25031
890-2250-10	SS04	Total/NA	Solid	8021B	25031

QC Association Summary

Client: Ensolum
Project/Site: PLU 213

Job ID: 890-2250-1
SDG: 03E1558014

GC VOA (Continued)

Analysis Batch: 25034 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2250-11	SS04B	Total/NA	Solid	8021B	25031
890-2250-12	FS01	Total/NA	Solid	8021B	25031
MB 880-25031/5-A	Method Blank	Total/NA	Solid	8021B	25031
LCS 880-25031/1-A	Lab Control Sample	Total/NA	Solid	8021B	25031
LCSD 880-25031/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	25031
890-2250-2 MS	SS01A	Total/NA	Solid	8021B	25031
890-2250-2 MSD	SS01A	Total/NA	Solid	8021B	25031

Analysis Batch: 25082

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2250-1	SS01	Total/NA	Solid	Total BTEX	
890-2250-2	SS01A	Total/NA	Solid	Total BTEX	
890-2250-3	SS01B	Total/NA	Solid	Total BTEX	
890-2250-4	SS01C	Total/NA	Solid	Total BTEX	
890-2250-5	SS02	Total/NA	Solid	Total BTEX	
890-2250-6	SS02A	Total/NA	Solid	Total BTEX	
890-2250-7	SS02B	Total/NA	Solid	Total BTEX	
890-2250-8	SS03	Total/NA	Solid	Total BTEX	
890-2250-9	SS03A	Total/NA	Solid	Total BTEX	
890-2250-10	SS04	Total/NA	Solid	Total BTEX	
890-2250-11	SS04B	Total/NA	Solid	Total BTEX	
890-2250-12	FS01	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 24438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2250-1	SS01	Total/NA	Solid	8015NM Prep	
890-2250-2	SS01A	Total/NA	Solid	8015NM Prep	
890-2250-3	SS01B	Total/NA	Solid	8015NM Prep	
890-2250-4	SS01C	Total/NA	Solid	8015NM Prep	
890-2250-5	SS02	Total/NA	Solid	8015NM Prep	
890-2250-6	SS02A	Total/NA	Solid	8015NM Prep	
890-2250-7	SS02B	Total/NA	Solid	8015NM Prep	
890-2250-8	SS03	Total/NA	Solid	8015NM Prep	
890-2250-9	SS03A	Total/NA	Solid	8015NM Prep	
890-2250-10	SS04	Total/NA	Solid	8015NM Prep	
890-2250-11	SS04B	Total/NA	Solid	8015NM Prep	
890-2250-12	FS01	Total/NA	Solid	8015NM Prep	
MB 880-24438/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-24438/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-24438/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2249-A-1-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-2249-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 24609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2250-1	SS01	Total/NA	Solid	8015B NM	24438
890-2250-2	SS01A	Total/NA	Solid	8015B NM	24438
890-2250-3	SS01B	Total/NA	Solid	8015B NM	24438
890-2250-4	SS01C	Total/NA	Solid	8015B NM	24438

QC Association Summary

Client: Ensolum
Project/Site: PLU 213

Job ID: 890-2250-1
SDG: 03E1558014

GC Semi VOA (Continued)

Analysis Batch: 24609 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2250-5	SS02	Total/NA	Solid	8015B NM	24438
890-2250-6	SS02A	Total/NA	Solid	8015B NM	24438
890-2250-7	SS02B	Total/NA	Solid	8015B NM	24438
890-2250-8	SS03	Total/NA	Solid	8015B NM	24438
890-2250-9	SS03A	Total/NA	Solid	8015B NM	24438
890-2250-10	SS04	Total/NA	Solid	8015B NM	24438
890-2250-11	SS04B	Total/NA	Solid	8015B NM	24438
890-2250-12	FS01	Total/NA	Solid	8015B NM	24438
MB 880-24438/1-A	Method Blank	Total/NA	Solid	8015B NM	24438
LCS 880-24438/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	24438
LCSD 880-24438/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	24438
890-2249-A-1-D MS	Matrix Spike	Total/NA	Solid	8015B NM	24438
890-2249-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	24438

Analysis Batch: 24758

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2250-1	SS01	Total/NA	Solid	8015 NM	
890-2250-2	SS01A	Total/NA	Solid	8015 NM	
890-2250-3	SS01B	Total/NA	Solid	8015 NM	
890-2250-4	SS01C	Total/NA	Solid	8015 NM	
890-2250-5	SS02	Total/NA	Solid	8015 NM	
890-2250-6	SS02A	Total/NA	Solid	8015 NM	
890-2250-7	SS02B	Total/NA	Solid	8015 NM	
890-2250-8	SS03	Total/NA	Solid	8015 NM	
890-2250-9	SS03A	Total/NA	Solid	8015 NM	
890-2250-10	SS04	Total/NA	Solid	8015 NM	
890-2250-11	SS04B	Total/NA	Solid	8015 NM	
890-2250-12	FS01	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 24411

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2250-1	SS01	Soluble	Solid	DI Leach	
890-2250-2	SS01A	Soluble	Solid	DI Leach	
890-2250-3	SS01B	Soluble	Solid	DI Leach	
890-2250-4	SS01C	Soluble	Solid	DI Leach	
890-2250-5	SS02	Soluble	Solid	DI Leach	
890-2250-6	SS02A	Soluble	Solid	DI Leach	
890-2250-7	SS02B	Soluble	Solid	DI Leach	
890-2250-8	SS03	Soluble	Solid	DI Leach	
890-2250-9	SS03A	Soluble	Solid	DI Leach	
890-2250-10	SS04	Soluble	Solid	DI Leach	
890-2250-11	SS04B	Soluble	Solid	DI Leach	
890-2250-12	FS01	Soluble	Solid	DI Leach	
MB 880-24411/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-24411/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-24411/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2250-8 MS	SS03	Soluble	Solid	DI Leach	
890-2250-8 MSD	SS03	Soluble	Solid	DI Leach	

QC Association Summary

Client: Ensolum
Project/Site: PLU 213

Job ID: 890-2250-1
SDG: 03E1558014

HPLC/IC

Analysis Batch: 24591

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2250-1	SS01	Soluble	Solid	300.0	24411
890-2250-2	SS01A	Soluble	Solid	300.0	24411
890-2250-3	SS01B	Soluble	Solid	300.0	24411
890-2250-4	SS01C	Soluble	Solid	300.0	24411
890-2250-5	SS02	Soluble	Solid	300.0	24411
890-2250-6	SS02A	Soluble	Solid	300.0	24411
890-2250-7	SS02B	Soluble	Solid	300.0	24411
890-2250-8	SS03	Soluble	Solid	300.0	24411
890-2250-9	SS03A	Soluble	Solid	300.0	24411
890-2250-10	SS04	Soluble	Solid	300.0	24411
890-2250-11	SS04B	Soluble	Solid	300.0	24411
890-2250-12	FS01	Soluble	Solid	300.0	24411
MB 880-24411/1-A	Method Blank	Soluble	Solid	300.0	24411
LCS 880-24411/2-A	Lab Control Sample	Soluble	Solid	300.0	24411
LCSD 880-24411/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	24411
890-2250-8 MS	SS03	Soluble	Solid	300.0	24411
890-2250-8 MSD	SS03	Soluble	Solid	300.0	24411

Lab Chronicle

Client: Ensolum
Project/Site: PLU 213

Job ID: 890-2250-1
SDG: 03E1558014

Client Sample ID: SS01
Date Collected: 04/26/22 10:25
Date Received: 04/27/22 08:21

Lab Sample ID: 890-2250-1
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	25030	05/07/22 13:13	MR	XEN MID
Total/NA	Analysis	8021B		1			25032	05/08/22 19:24	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25082	05/09/22 11:41	MR	XEN MID
Total/NA	Analysis	8015 NM		1			24758	05/03/22 16:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	24438	04/28/22 13:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24609	05/02/22 17:36	BJH	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	24411	04/28/22 11:37	SC	XEN MID
Soluble	Analysis	300.0		20			24591	05/01/22 20:30	CH	XEN MID

Client Sample ID: SS01A
Date Collected: 04/26/22 13:30
Date Received: 04/27/22 08:21

Lab Sample ID: 890-2250-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	25031	05/07/22 13:16	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	25034	05/09/22 07:16	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25082	05/09/22 11:41	MR	XEN MID
Total/NA	Analysis	8015 NM		1			24758	05/03/22 16:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	24438	04/28/22 13:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24609	05/02/22 17:58	BJH	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	24411	04/28/22 11:37	SC	XEN MID
Soluble	Analysis	300.0		1			24591	05/01/22 20:39	CH	XEN MID

Client Sample ID: SS01B
Date Collected: 04/26/22 13:40
Date Received: 04/27/22 08:21

Lab Sample ID: 890-2250-3
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			5.03 g	5 mL	25031	05/07/22 13:16	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	25034	05/09/22 07:37	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25082	05/09/22 11:41	MR	XEN MID
Total/NA	Analysis	8015 NM		1			24758	05/03/22 16:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24438	04/28/22 13:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24609	05/02/22 18:19	BJH	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	24411	04/28/22 11:37	SC	XEN MID
Soluble	Analysis	300.0		1			24591	05/01/22 21:06	CH	XEN MID

Client Sample ID: SS01C
Date Collected: 04/26/22 14:00
Date Received: 04/27/22 08:21

Lab Sample ID: 890-2250-4
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			5.01 g	5 mL	25031	05/07/22 13:16	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	25034	05/09/22 07:57	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25082	05/09/22 11:41	MR	XEN MID

Lab Chronicle

Client: Ensolum
Project/Site: PLU 213

Job ID: 890-2250-1
SDG: 03E1558014

Client Sample ID: SS01C
Date Collected: 04/26/22 14:00
Date Received: 04/27/22 08:21

Lab Sample ID: 890-2250-4
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			24758	05/03/22 16:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	24438	04/28/22 13:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24609	05/02/22 18:41	BJH	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	24411	04/28/22 11:37	SC	XEN MID
Soluble	Analysis	300.0		1			24591	05/01/22 21:15	CH	XEN MID

Client Sample ID: SS02
Date Collected: 04/26/22 10:15
Date Received: 04/27/22 08:21

Lab Sample ID: 890-2250-5
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			5.02 g	5 mL	25031	05/07/22 13:16	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	25034	05/09/22 08:17	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25082	05/09/22 11:41	MR	XEN MID
Total/NA	Analysis	8015 NM		1			24758	05/03/22 16:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	24438	04/28/22 13:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24609	05/02/22 19:03	BJH	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	24411	04/28/22 11:37	SC	XEN MID
Soluble	Analysis	300.0		20			24591	05/01/22 21:23	CH	XEN MID

Client Sample ID: SS02A
Date Collected: 04/26/22 10:45
Date Received: 04/27/22 08:21

Lab Sample ID: 890-2250-6
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	25031	05/07/22 13:16	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	25034	05/09/22 08:38	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25082	05/09/22 11:41	MR	XEN MID
Total/NA	Analysis	8015 NM		1			24758	05/03/22 16:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	24438	04/28/22 13:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24609	05/02/22 19:46	BJH	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	24411	04/28/22 11:37	SC	XEN MID
Soluble	Analysis	300.0		1			24591	05/01/22 21:32	CH	XEN MID

Client Sample ID: SS02B
Date Collected: 04/26/22 11:40
Date Received: 04/27/22 08:21

Lab Sample ID: 890-2250-7
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			5.00 g	5 mL	25031	05/07/22 13:16	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	25034	05/09/22 08:58	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25082	05/09/22 11:41	MR	XEN MID
Total/NA	Analysis	8015 NM		1			24758	05/03/22 16:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	24438	04/28/22 13:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24609	05/02/22 20:07	BJH	XEN MID

Lab Chronicle

Client: Ensolum
Project/Site: PLU 213

Job ID: 890-2250-1
SDG: 03E1558014

Client Sample ID: SS02B
Date Collected: 04/26/22 11:40
Date Received: 04/27/22 08:21

Lab Sample ID: 890-2250-7
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 g	50 mL	24411	04/28/22 11:37	SC	XEN MID
Soluble	Analysis	300.0		1			24591	05/01/22 21:41	CH	XEN MID

Client Sample ID: SS03
Date Collected: 04/26/22 10:35
Date Received: 04/27/22 08:21

Lab Sample ID: 890-2250-8
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			4.99 g	5 mL	25031	05/07/22 13:16	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	25034	05/09/22 09:19	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25082	05/09/22 11:41	MR	XEN MID
Total/NA	Analysis	8015 NM		1			24758	05/03/22 16:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24438	04/28/22 13:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24609	05/02/22 20:29	BJH	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	24411	04/28/22 11:37	SC	XEN MID
Soluble	Analysis	300.0		10			24591	05/01/22 21:50	CH	XEN MID

Client Sample ID: SS03A
Date Collected: 04/26/22 13:15
Date Received: 04/27/22 08:21

Lab Sample ID: 890-2250-9
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			4.99 g	5 mL	25031	05/07/22 13:16	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	25034	05/09/22 09:39	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25082	05/09/22 11:41	MR	XEN MID
Total/NA	Analysis	8015 NM		1			24758	05/03/22 16:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	24438	04/28/22 13:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24609	05/02/22 20:51	BJH	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	24411	04/28/22 11:37	SC	XEN MID
Soluble	Analysis	300.0		1			24591	05/01/22 22:16	CH	XEN MID

Client Sample ID: SS04
Date Collected: 04/26/22 10:40
Date Received: 04/27/22 08:21

Lab Sample ID: 890-2250-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	25031	05/07/22 13:16	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	25034	05/09/22 09:59	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25082	05/09/22 11:41	MR	XEN MID
Total/NA	Analysis	8015 NM		1			24758	05/03/22 16:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	24438	04/28/22 13:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24609	05/02/22 21:12	BJH	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	24411	04/28/22 11:37	SC	XEN MID
Soluble	Analysis	300.0		5			24591	05/01/22 22:25	CH	XEN MID

Lab Chronicle

Client: Ensolum
Project/Site: PLU 213

Job ID: 890-2250-1
SDG: 03E1558014

Client Sample ID: SS04B

Date Collected: 04/26/22 12:10
Date Received: 04/27/22 08:21

Lab Sample ID: 890-2250-11

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			5.01 g	5 mL	25031	05/07/22 13:16	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	25034	05/09/22 10:20	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25082	05/09/22 11:41	MR	XEN MID
Total/NA	Analysis	8015 NM		1			24758	05/03/22 16:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	24438	04/28/22 13:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24609	05/02/22 21:34	BJH	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	24411	04/28/22 11:37	SC	XEN MID
Soluble	Analysis	300.0		1			24591	05/01/22 22:52	CH	XEN MID

Client Sample ID: FS01

Date Collected: 04/26/22 14:30
Date Received: 04/27/22 08:21

Lab Sample ID: 890-2250-12

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	25031	05/07/22 13:16	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	25034	05/09/22 12:10	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25082	05/09/22 11:41	MR	XEN MID
Total/NA	Analysis	8015 NM		1			24758	05/03/22 16:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	24438	04/28/22 13:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24609	05/02/22 21:56	BJH	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	24411	04/28/22 11:37	SC	XEN MID
Soluble	Analysis	300.0		50			24591	05/01/22 23:01	CH	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: PLU 213

Job ID: 890-2250-1
SDG: 03E1558014

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	T104704400-21-22	06-30-22

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 213

Job ID: 890-2250-1
SDG: 03E1558014

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum
Project/Site: PLU 213

Job ID: 890-2250-1
SDG: 03E1558014

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2250-1	SS01	Solid	04/26/22 10:25	04/27/22 08:21	0.5
890-2250-2	SS01A	Solid	04/26/22 13:30	04/27/22 08:21	1
890-2250-3	SS01B	Solid	04/26/22 13:40	04/27/22 08:21	3
890-2250-4	SS01C	Solid	04/26/22 14:00	04/27/22 08:21	4
890-2250-5	SS02	Solid	04/26/22 10:15	04/27/22 08:21	0.5
890-2250-6	SS02A	Solid	04/26/22 10:45	04/27/22 08:21	1
890-2250-7	SS02B	Solid	04/26/22 11:40	04/27/22 08:21	4
890-2250-8	SS03	Solid	04/26/22 10:35	04/27/22 08:21	0.5
890-2250-9	SS03A	Solid	04/26/22 13:15	04/27/22 08:21	4
890-2250-10	SS04	Solid	04/26/22 10:40	04/27/22 08:21	0.5
890-2250-11	SS04B	Solid	04/26/22 12:10	04/27/22 08:21	3
890-2250-12	FS01	Solid	04/26/22 14:30	04/27/22 08:21	0.5

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Chain of Custody

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

Work Order No: _____

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Project Manager:	Kalei Jennings	Bill to: (if different)	~~XTO Energy~~ Adrian Baker
Company Name:	Ensolum	Company Name:	XTO Energy
Address:		Address:	
City, State ZIP:	Midland TX	City, State ZIP:	
Phone:	Email:		kjennings@ensolum.com

Work Order Comments

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

Project Name:	PLH 213	Turn Around	
Project Number:	03E1558014	☑ Routine ☐ Rush	
Project Location:	32.21242, -103.91386	Due Date:	
Sampler's Name:	Al. Castro	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:	TNM_007	
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2	
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	1.0	
Total Containers:		Corrected Temperature:	0.8	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	TPH (EPA 8015)	BTEX (EPA 8021)	Chloride (EPA 300)	Sample Comments
SS01	S	4/26/22	1025	0.5	G	1		X	X	X	Incident ID NAPP2205434446
SS01A	S	4/26/22	1330	1	G	1		X	X	X	CC 1081131001
SS01B	S	4/26/22	1340	3		1		X	X	X	
~~SS01B~~ SS01C	S	4/26/22	1400	4		1		X	X	X	
SS02	S	"	1015	0.5		1		X	X	X	
SS02A	S		1045	1		1		X	X	X	
SS02B	S		1140	4		1		X	X	X	
SS03	S		1035	0.5		1		X	X	X	
SS03A	S		1315	4		1		X	X	X	
SS04	S		1040	0.5		2		X	X	X	

890-2250 Chain of Custody

Preservative Codes

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

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	MC	Monarrez	4/26/22 1730	2		4/27/22 800
3		4.27.22 0821		4		
5				6		

Revised Date: 08/25/2020 Rev. 2020.2

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Chain of Custody

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

Work Order No: _____

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Project Manager:	K Jennings	Bill to: (if different)	Adrian Baker
Company Name:	Ensolum	Company Name:	XTO Energy
Address:		Address:	
City, State ZIP:		City, State ZIP:	
Phone:		Email:	kjennings@ensolum.com

Work Order Comments

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

Project Name:	PLU 213	Turn Around	☑ Routine ☐ Rush
Project Number:	03E1558014	Due Date:	
Project Location:		TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	M. Castro		
PO #:			

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

PS1

Preservative Codes

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

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	BTEX (EPA 8021)	TPH (EPA 8015)	Chloride (EPA 300)	Sample Comments
SS04B	S	4/26/22	1210	3		1		X	X	X	Incident # NAPP2205431646
FS01	S	4/26/22	1430	0.5		1		X	X	X	CC1081131001

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		4/26/22 1730	2		4/27/22 800
3	4.27.22 0821		4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

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

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler	Lab PM: Kramer Jessica	Carrier Tracking No(s)	COC No: 890-730 1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Jessica Kramer@et.eurofinsus com	State of Origin: New Mexico	Page: Page 1 of 2
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Texas		Job #: 890-2250-1
Address: 1211 W Florida Ave	Due Date Requested: 5/3/2022			
City: Midland	TAT Requested (days):			
State, Zip: TX 79701				
Phone: 432-704-5440(Tel)	PO #:			
Email	WO #:			
Project Name: PLU 213	Project #: 89000093			
Site	SSOW#:			

Analysis Requested

Preservation Codes

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

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH	8015MOD_Calc	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035FP_Calc (MOD) BTEX	Total_BTEX_GCV	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
SS01 (890-2250-1)	4/26/22	10 25 Mountain		Solid			X	X	X	X	X	1	
SS01A (890-2250-2)	4/26/22	13 30 Mountain		Solid			X	X	X	X	X	1	
SS01B (890-2250-3)	4/26/22	13 40 Mountain		Solid			X	X	X	X	X	1	
SS01C (890-2250-4)	4/26/22	14 00 Mountain		Solid			X	X	X	X	X	1	
SS02 (890-2250-5)	4/26/22	10 15 Mountain		Solid			X	X	X	X	X	1	
SS02A (890-2250-6)	4/26/22	10 45 Mountain		Solid			X	X	X	X	X	1	
SS02B (890-2250-7)	4/26/22	11 40 Mountain		Solid			X	X	X	X	X	1	
SS03 (890-2250-8)	4/26/22	10 35 Mountain		Solid			X	X	X	X	X	1	
SS03A (890-2250-9)	4/26/22	13 15 Mountain		Solid			X	X	X	X	X	1	

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

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

Empty Kit Relinquished by	Date	Time	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Clue Cuyo 4.27.22			Latrena R	4/28/22 10:20	
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks. 1.5 | 1.3 -2 IR8

Ver: 06/08/2021

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

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kramer Jessica	Carrier Tracking No(s)	COC No: 890-730 2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Jessica Kramer@et eurofinsus com	State of Origin: New Mexico	Page: Page 2 of 2
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Texas		Job #: 890-2250-1
Address: 1211 W Florida Ave,	Due Date Requested: 5/3/2022			
City: Midland	TAT Requested (days):			
State Zip: TX 79701				
Phone: 432-704-5440(Tel)	PO #:			
Email:	WO #:			
Project Name: PLU 213	Project #: 89000093			
Site:	SSOW#:			

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

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH	8015MOD_Calc	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035FP_Calc (MOD) BTEX	Total_BTEX_GCV	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X						X	
SS04 (890-2250-10)	4/26/22	10 40 Mountain		Solid			X	X	X	X	X	2	
SS04B (890-2250-11)	4/26/22	12 10 Mountain		Solid			X	X	X	X	X	1	
FS01 (890-2250-12)	4/26/22	14 30 Mountain		Solid			X	X	X	X	X	1	

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

Possible Hazard Identification
Unconfirmed

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For ______ Months*

Deliverable Requested I II III IV Other (specify) — Primary Deliverable Rank 2
Special Instructions/QC Requirements.

Empty Kit Relinquished by	Date	Time	Method of Shipment:	
Relinquished by: [signature] 4·27·22	Date/Time:	Company	Received by: [signature]	Date/Time: 4/28/22	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact. Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks: 1.5/1.3 -2 IR8

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2250-1
SDG Number: 03E1558014

Login Number: 2250
List Number: 1
Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	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	

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2250-1
SDG Number: 03E1558014

Login Number: 2250
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 04/28/22 10:30 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

ENSOLUM

APPENDIX D

NMOCD Notifications

From: Hamlet, Robert, EMNRD
To: Collins, Melanie
Cc: DelawareSpills /SM; Aimee Cole; Ben Belill; Tacoma Morrissey; Kalei Jennings; Bratcher, Mike, EMNRD; Nobui, Jennifer, EMNRD; Harimon, Jocelyn, EMNRD
Subject: (Extension Denied) - XTO - PLU 213 Tank Battery (Incident Number NAPP2205439646)
Date: Friday, July 8, 2022 10:04:29 AM
Attachments: image003.png

[**EXTERNAL EMAIL**]

RE: Incident # **NAPP2205439646**

Melanie,

An extension for this release has already been granted. Your request for another extension is **denied**. Include this e-mail correspondence in the remediation and/or closure report.

Robert Hamlet ● Environmental Specialist - Advanced
Environmental Bureau
EMNRD - Oil Conservation Division
811 S. First Street | Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
http://www.emnrd.state.nm.us/OCD/

From: Collins, Melanie <melanie.collins@exxonmobil.com>
Sent: Friday, July 8, 2022 8:56 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@state.nm.us>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>
Cc: DelawareSpills /SM <DelawareSpills@exxonmobil.com>; acole@ensolum.com; bbelill@ensolum.com; Tacoma Morrissey <tmorrissey@ensolum.com>; Kalei Jennings <kjennings@ensolum.com>
Subject: [EXTERNAL] XTO Extension Request - PLU 213 Tank Battery (Incident Number NAPP2205439646)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

All,

PLU 213 Tank Battery (Incident Number NAPP2205439646)

XTO is requesting an extension for the current deadline of July 12, 2022 for submitting a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC at the PLU 213 Tank Battery (Incident Number NAPP2205439646). The release occurred on February 12, 2022 in an area surrounded by active production equipment. Initial assessment of the release has been completed and excavation of impacted soil was completed last week. Laboratory analytical results are pending. In addition, XTO intends to drill a depth to water boring to confirm the closure criteria at the Site. In order to allow time to schedule with a driller, drill the depth to water boring, and submit a remediation work plan or closure report, XTO request a 90-day extension of the deadline until October 10, 2022.

Thank you,

Melanie Collins

XTO ENERGY

Environmental Technician

melanie.collins@exxonmobil.com

432-556-3756

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1625 N. French Dr., Hobbs, NM 88240
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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 124764

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 124764
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Remediation Plan Approved.	8/29/2022