Location:	BEU 156								
Spill Date:	3/3/2023								
	Area 1								
Approximate A	rea =	103.00	sq. ft.						
Average Satura	tion (or depth) of spill =	0.25	inches						
Average Porosi	ty Factor =	0.25							
	VOLUME OF LEAK								
Total Crude Oil	=	0.10	bbls						
Total Produced	Water =	0.00	bbls						
	TOTAL VOLUME OF LEAK								
Total Crude Oil	0.10	bbls							
Total Produced	l Water =	0.00	bbls						
	TOTAL VOLUME RECOVERED								
Total Crude Oil	=	0.00	bbls						
Total Produced	Water =	0.00	bbls						



February 11, 2025

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

Re: Closure Request Addendum
Big Eddy Unit 156
Incident Number NAPP2306844555
Eddy County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum) on behalf of XTO Energy, Inc. (XTO), has prepared this *Closure Request Addendum* to present additional remediation activities completed at the Big Eddy Unit 156 (Site), in response to the denial of the original *Closure Request*, submitted to the New Mexico Oil Conservation Division (NMOCD) on May 31, 2023. In the denial, NMOCD indicated that the floor sample did not appear to be in the release area and that the release extent was not laterally defined. Based on soil sampling activities described below, XTO is submitting this *Closure Request Addendum* and requesting no further action for Incident Number NAPP2306844555.

BACKGROUND

The Site is located in Unit D, Section 11, Township 22 South, Range 28 East, in Eddy County, New Mexico (32.41236°, -104.06400°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On March 3, 2023, fluid buildup in a crude oil pipeline caused approximately 0.1 barrels (bbls) of crude oil to release and ignite due to a nearby combustor flame. The fire extinguished itself and no recoverable fluids remained. XTO immediately reported the release to the New Mexico Oil Conservation Division (NMOCD) via email on March 4, 2023, and submitted a Release Notification Form C-141 (Form C-141) on March 9, 2023. The release was assigned Incident Number NAPP2306844555.

The Closure Request detailed the Site characterization completed to assess the applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented in the original Closure Request submitted May 31, 2023. Potential Site receptors are identified on Figure 1. Based on the results of the Site characterization, the following Table I Closure Criteria (Closure Criteria) apply:

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

Ensolum, LLC | Environmental, Engineering & Hydrogeologic Consultants 3122 National Park Highway | Carlsbad, NM 88220 | ensolum.com XTO Energy, Inc Closure Request Addendum Big Eddy Unit 156

TPH: 2,500 mg/kg

Chloride: 10,000 mg/kg

Between April 3 and April 12, 2023, Ensolum conducted Site assessment, delineation, and excavation activities in response to the release. Four soil samples (SS01 through SS04) were collected outside the release extent to laterally define the release extent. Excavation activities were completed based on visible staining in the release area and composite soil FS01 was collected from the floor of the excavation. Based on laboratory analytical results from the delineation and excavation activities, impacted soil was removed from the Site.

XTO submitted a *Closure Request* on May 31, 2023, requesting no further action (NFA) for the release. All previously completed remedial activities can be found in the original *Closure Request* included in Appendix A. On October 26, 2023, NMOCD denied the *Closure Request* for Incident Number NAPP2306844555 for the following reasons:

The Closure Report is Denied. The one floor sample that was taken doesn't appear to be in the release area (Figure 2). The "step-out" samples on pad to verify the edge of the release should only be a maximum of 1-2 feet from the observed edge of the release. Stepping out away from the release area to conduct horizontal delineation samples may tell us whether or not the release left the active well pad, but it does not tell us where the actual edge of the release is located. Please make sure that the edge of the release extent is accurately defined. Additionally, when equipment is located in and around the release area, samples must come from the sidewalls of the release area excavation. The OCD needs to know if the release went in, around, or under equipment, tanks, pipelines.

In response to the denial, additional confirmation soil sampling activities were warranted.

CONFIRMATION SOIL SAMPLING ACTIVITIES AND ANALYTICAL RESULTS

On January 30, 2024, Ensolum personnel returned to the Site to complete additional confirmation sampling activities. The release extent presented in the original Closure Request was updated based on visible staining and evidence of impairment. In the denial of the original Closure Request, there was concern that the floor sample (FS01) was collected outside of the release extent. By including the updated release extent, it is confirmed that FS01 was collected within the release extent. One 5-point composite soil sample (SW01) was collected from the sidewall of the excavation from depths ranging from the ground surface to 0.5 feet Bgs. The 5-point composite sample was collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Four delineation soil samples (SS05 through SS08) were collected around the release extent at a depth of 0.5 feet bgs to confirm the lateral extent of the release. All soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-ofcustody procedures to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of the following constituents of concern (COC): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0. The release extent and confirmation soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation is included in Appendix B.

The excavation area measured approximately 140 square feet. The impacted soil was transported and properly disposed of at the R360 Disposal Facility in Hobbs, New Mexico. A total of approximately 3 cubic vards of impacted soil were removed from the Site.



XTO Energy, Inc Closure Request Addendum Big Eddy Unit 156

Laboratory analytical results for all confirmation soil samples collected indicated all COC concentrations were in compliance with the most stringent Table I Closure Criteria. The laboratory analytical results are summarized on Table 1 and the complete laboratory analytical reports are included in Appendix C.

CLOSURE REQUEST

Soil sampling activities were conducted at the Site to address the March 3, 2023, release of crude oil resulting in a fire. The fire extinguished itself and no injuries were reported. Laboratory analytical results from all confirmation soil samples collected from the final excavation extent indicated all COC concentrations were complaint with the most stringent Table I Closure Criteria. Additionally, the release was delineated laterally to the most stringent Table I Closure Criteria. Based on soil sample analytical results, no further remediation is required. The excavation was backfilled with material purchased locally and the surface recontoured to match pre-existing Site conditions.

Excavation of impacted soil has mitigated impacts at the Site. Depth to groundwater has been estimated to be greater than 51 feet bgs and no other sensitive receptors were identified near the release extent. XTO believes these remedial actions are protective of human health, the environment, and groundwater. As such, XTO respectfully requests closure for Incident Number NAPP2306844555.

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

Sincerely, **Ensolum, LLC**

Hadlie Green
Project Geologist

Tacoma Morrissey Associate Principal

Moursey

cc: Kaylan Dirkx, XTO

Ashley McAfee, XTO

BLM

Appendices:

Figure 1 Site Receptor Map

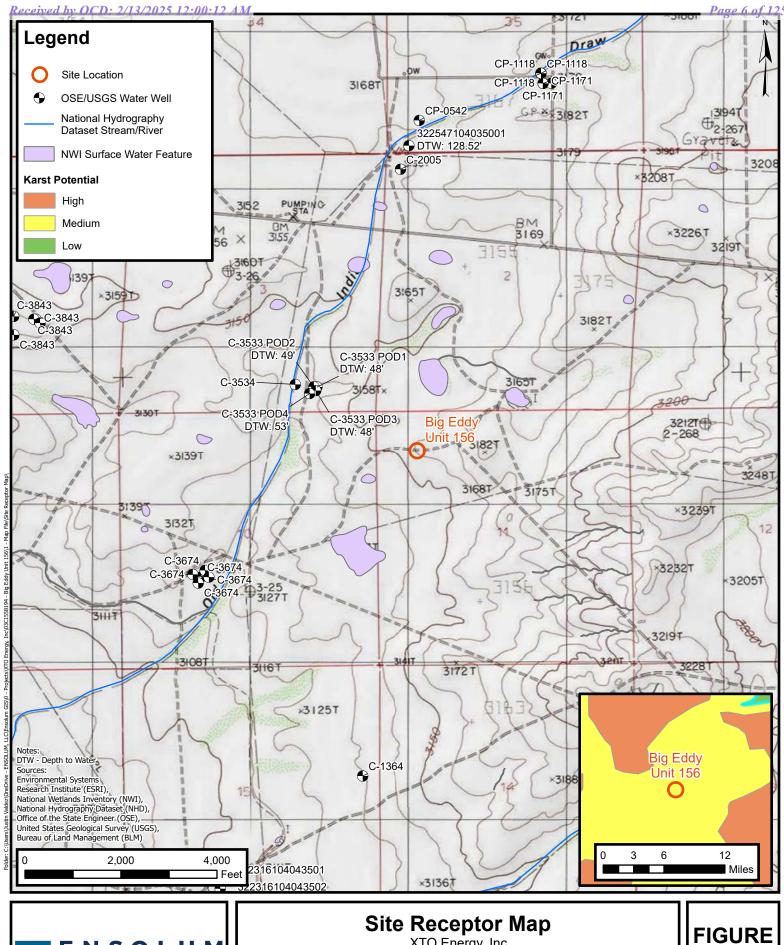
Figure 2 Confirmation Soil Sample Locations
Table 1 Soil Sample Analytical Results
Appendix A May 31, 2023 Closure Request

Appendix B Photographic Log

Appendix C Laboratory Analytical Reports & Chain-of-Custody Documentation



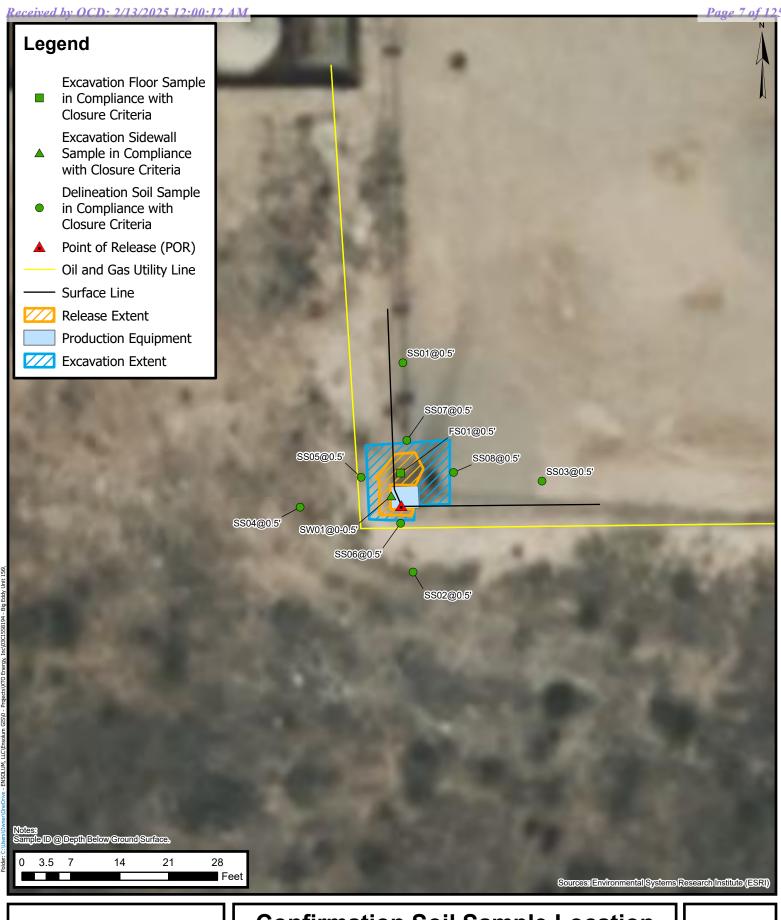
FIGURES





XTO Energy, Inc Big Eddy Unit 156 Incident Number: nAPP2306844555 Unit D, Sec 11, T22S, R28E Eddy County, New Mexico FIGURE 1

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Confirmation Soil Sample Location

XTO Energy, Inc.
Big Eddy Unit 156
Incident Number: NAPP2306844555
Unit D, Sec 11, T22S, R28E
Eddy County, New Mexico

FIGURE 2

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TABLES



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Big Eddy Unit 156 XTO Energy, Inc Eddy County, New Mexico

Sample I.D.	nple I.D. Sample Sample De Date (feet bgs		Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)				
NMOCD Table I Cl	losure Criteria (l	NMAC 19.15.29)	10	50	NE NE		NE	1,000	2,500	10,000				
Delineation Soil Samples														
SS01	04/03/2023	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	48.6				
SS02	04/03/2023	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0 <50.0		<50.0	34.6				
SS03	04/03/2023	0.5	<0.00200	<0.00399	<49.8	85.4 <49.8		85.4	85.4	35.8				
SS04	04/03/2023	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0 <50.0		<50.0	68.3				
SS05	01/30/2024	0.5	<0.00201	<0.00402	<50.5	<50.5	<50.5	<50.5	<50.5	88.4				
SS06	01/30/2024	0.5	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	<49.8	69.6				
SS07	01/30/2024	0.5	<0.00199	<0.00398	<49.6	<49.6	<49.6	<49.6	<49.6	214				
SS08	01/30/2024	0.5	<0.00199	<0.00398	<49.6	<49.6	<49.6	<49.6	<49.6	230				
				Exc	avation Soil Sai	nples								
FS01	04/12/2023	0.5	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	207				
SW01	01/30/2024	0 - 0.5	<0.00200	<0.00399	<50.1	<50.1	<50.1	<50.1	<50.1	69.2				

Notes:

bgs: below ground surface mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

Concentrations in **bold** exceed the NMOCD Table I Closure Criteria.

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

NMAC: New Mexico Administrative Code



APPENDIX A

May 31, 2023 Closure Request



May 26, 2023

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

Re: Closure Request

Big Eddy Unit 156

Incident Number NAPP2306844555

Eddy County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum) on behalf of XTO Energy, Inc. (XTO), has prepared this *Closure Request* to document assessment, excavation, and soil sampling activities completed at the Big Eddy Unit 156 (Site). The purpose of the Site assessment, excavation, and soil sampling activities was to address impacts to soil following a crude oil release and fire at the Site. Based on field observations and soil sample laboratory analytical results, XTO is submitting this *Closure Request*, describing Site assessment and excavation activities that have occurred and requesting no further action for Incident Number NAPP2306844555.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit D, Section 11, Township 22 South, Range 28 East, in Eddy County, New Mexico (32.41236°, -104.06400°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On March 3, 2023, fluid buildup in a crude oil pipeline caused approximately 0.1 barrels (bbls) of crude oil to release and ignite due to a nearby combustor flame. The fire extinguished itself and no recoverable fluids remained. XTO immediately reported the release to the New Mexico Oil Conservation Division (NMOCD) via email on March 4, 2023, and submitted a Release Notification Form C-141 (Form C-141) on March 9, 2023. The release was assigned Incident Number NAPP2306844555.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess the applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented on page 3 of the Form C-141, Site Assessment/Characterization.

Depth to groundwater at the Site is estimated to be greater than 51 feet below ground surface (bgs) based on four soil borings drilled for investigation of impacted soil from a December 2011 produced water and crude oil release (Incident Number nMLB1135446814). The soil borings are permitted through the New Mexico Office of the State Engineer (OSE file number C-3533, POD-1 through POD-4) and are all located approximately 0.45 to 0.47 miles northwest of the Site. All soil borings were advanced to a total depth of 55 feet bgs. The depth to water in the soil borings ranged from 48 feet to 53 feet bgs.

Ensolum, LLC | Environmental, Engineering & Hydrogeologic Consultants 3122 National Park Highway | Carlsbad, NM 88220 | ensolum.com

XTO Energy, Inc Closure Request Big Eddy Unit 156

Ground surface elevation at the soil borings location is approximately 3,140 feet above mean sea level (amsl), which is approximately 20 feet lower in elevation than the Site, therefore; groundwater is estimated to be greater than 51 feet bgs at the Site. The groundwater encountered in the investigated area is within a naturally occuring salt water deposit as stated on page 3 of the approved *Closure Request Report* for Incident Number nMLB1135446814, that details the December 2011 release. Additionally, on February 8, 2012, NMOCD agreed with the conclusion that the water encountered at 55 feet bgs was one of many naturally occuring salt water deposits as stated on Page 2, Section 3, of the NMOCD approved drilling permit for file number C-3533 and on Page 5 of the *Closure Request Report*. The Closure Request was submitted to NMOCD on January 23, 2014 and was approved on August 27, 2014. The full report can be found on the NMOCD web portal. On March 6, 2012, the temporary monitoring wells were plugged and abandoned pursuant to OSE standards. The approved drilling permit is included in Appendix A of this report and the soil boring well logs can be found in Appendix C of the approved *Closure Request Report* for Incident Number nMLB1135446814.

The closest continuously flowing or significant watercourse to the Site is freshwater emergent wetland located approximately 832 feet northwest of the Site. The Site is greater than 200 feet from any lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet from any freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (medium potential karst designation area). Potential Site receptors are identified on Figure 1.

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

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

SITE ASSESSMENT ACTIVITIES

On April 4, 2023, Ensolum personnel were at the Site to complete Site assessment activities and evaluate the release extent based on visible staining and information provided on the Form C-141. Four delineation soil samples (SS01 through SS04) were collected around the release extent from a depth of approximately 0.5 feet bgs to confirm the lateral extent of the release. The delineation soil samples were field screened for volatile aromatic hydrocarbons (VOCs) utilizing a calibrated photoionization detector (PID) and chloride utilizing Hach® chloride QuanTab® test strips. The release extent and delineation soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation is included in Appendix B.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of the following constituents of concern (COC): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0. Soil samples delivered to the laboratory the same day they are collected may not have equilibrated to the 6 degrees Celcius required for shippment and long term storage, but are considered to have been received in acceptable condition by the laboratory.



XTO Energy, Inc Closure Request Big Eddy Unit 156

EXCAVATION SOIL SAMPLING ACTIVITIES

On April 12, 2023, Ensolum returned to the Site to oversee excavation activities based on visible staining in the release area. Excavation activities were performed by use of hand tools and were completed on the well pad around the combustor. Excavation activities were directed by field screening of soil as described above. Following removal of the impacted soil, Ensolum personnel collected a 5-point composite soil sample (FS01) from the floor of the excavation at a depth of 0.5 feet bgs. Composite floor sample FS01 represented the entire 140 square-foot floor of the excavation. Due to the shallow depth of the excavation, soil from the sidewalls was incorporated into the floor soil sample. Floor sample FS01 was collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the sample by thoroughly mixing. The excavation soil sample was handled and analyzed following the same procedures as described above. The excavation extent and excavation soil sample location are presented on Figure 2.

The final excavation extent measured approximately 140 square feet. A total of approximately 3 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Landfill Disposal Facility in Hobbs, New Mexico. After completion of confirmation sampling, the excavation area was secured with fencing.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for lateral delineation soil samples SS01 through SS04 and confirmation floor soil sample FS01 indicated all COCs were compliant with the Site Closure Criteria as well as the most stringent Table I Closure Criteria. Laboratory analytical results are summarized in Table 1 and the laboratory analytical reports are attached in Appendix C.

CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the March 3, 2023, release of crude oil resulting in a fire. The fire extinguished itself and no injuries were reported. Laboratory analytical results for confirmation floor sample FS01, collected from the final excavation extent, and delineation soil samples SS01 through SS04, collected around the release extent, indicated all COC concentrations were compliant with the Site Closure Criteria and the most stringent Table I Closure Criteria. Based on the soil sample analytical results, no further remediation was required. The excavation has been backfilled with material purchased locally and the Site has been recontoured to match pre-existing Site conditions. Photographic documentation of the backfill is provided in Appendix B.

Excavation of impacted soil has mitigated impacts at the Site. Depth to groundwater has been estimated to be greater than 51 feet bgs and no other sensitive receptors were identified near the release extent. XTO believes these remedial actions are protective of human health, the environment, and groundwater. As such, XTO respectfully requests closure for Incident Number NAPP2306844555.

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

Sincerely, **Ensolum, LLC**



XTO Energy, Inc Closure Request Big Eddy Unit 156

Benjamin J. Belill Project Geologist Ashley L. Ager, MS, PG Principal

Ashley L. Ager

cc: Garrett Green, XTO

Shelby Pennington, XTO

BLM

Appendices:

Figure 1 Site Receptor Map Figure 2 Soil Sample Locations

Table 1 Soil Sample Analytical Results Appendix A Referenced Well Records

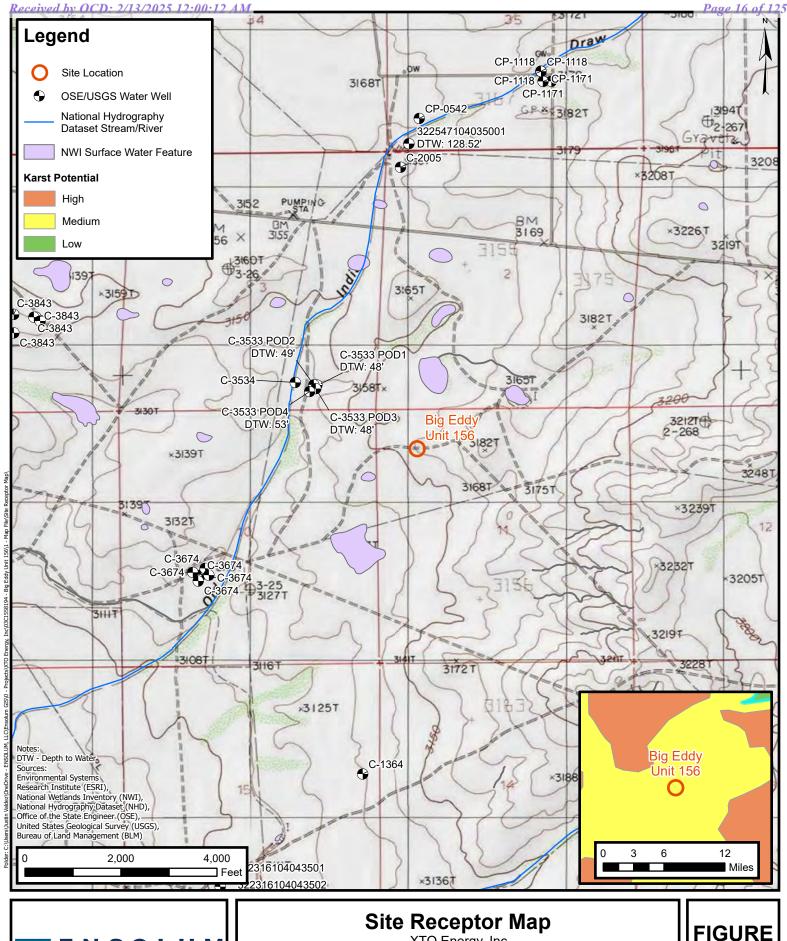
Appendix B Photographic Log

Appendix C Laboratory Analytical Reports & Chain-of-Custody Documentation

Appendix D NMOCD Notifications



FIGURES





XTO Energy, Inc Big Eddy Unit 156 Incident Number: nAPP2306844555 Unit D, Sec 11, T22S, R28E Eddy County, New Mexico FIGURE 1

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Soil Sample Locations

XTO Energy, Inc

Big Eddy Unit 156 Incident Number: nAPP2306844555 Unit D, Sec 11, T22S, R28E Eddy County, New Mexico

FIGURE 2



TABLES



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Big Eddy Unit 156 XTO Energy, Inc Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)			TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)	
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE NE		NE 1,000		2,500	10,000	
				Delir	neation Soil Sai	mples					
SS01	04/03/2023	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	48.6	
SS02	04/03/2023	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	34.6	
SS03	04/03/2023	0.5	<0.00200	<0.00399	<49.8	85.4	<49.8	85.4	85.4	35.8	
SS04	04/03/2023	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	68.3	
				Exca	avation Soil Sar	nples					
FS01	04/12/2023	0.5	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	207	

Notes:

bgs: below ground surface
mg/kg: milligrams per kilogram
NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

Concentrations in **bold** exceed the NMOCD Table I Closure Criteria.

GRO: Gasoline Range Organics DRO: Diesel Range Organics ORO: Oil Range Organics

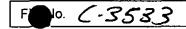
TPH: Total Petroleum Hydrocarbon NMAC: New Mexico Administrative Code

Ensolum 1 of 1



APPENDIX A

Referenced Well Records





NEW MEXICO OFFICE OF THE STATE ENGINEER

APPLICATION FOR PERMIT TO DRILL A WELL WITH NO CONSUMPTIVE USE OF WATER



(check applicable box):

	For fees, see State Engineer wel	osite: http://www.ose.state.nm.us/	2-30950 t
Purpose:	☐ Pollution Control And / Or Recovery	☐ Geo-Thermal	•
	☐ Construction Site De-Watering	Other (Describe):	
☐ Monitoring	☐ Mineral De-Watering		
A separate permit will	be required to apply water to beneficial use.		
	est - Requested Start Date: 2/1/12	Requested End Da	ate: 3/1/12
Plugging Plan of Ope	rations Submitted? X Yes No		ST RO
			ATE SW/
1. APPLICANT(S)	······································		NGINEE
Name: Terry Savois	Bopco L. P.	Name: U.S. Dept. of 3	Interior - RBLM
Contact or Agent:	check here if Agent	Contact or Agent:	check here if Agent
Contact : Tony S	avose	James A. A.	mos
Mailing Address: 522	W. Mermod, Suite 704	Mailing Address: 620 Eq.	st Greene Street
City: Carlsbad		City: Carlsbad	
State: NM	Zip Code: 88220	State: NM	Zip Code: 88220-6292
Phone: 432-556-8730	☐ Home ☐ Cell	Phone:	☐ Home ☐ Cell
Phone (Work): 575-88	87-7329	Phone (Work) 575 - 28	34-5909
E-mail (optional): tasa	avoie@basspet.com	E-mail (optional):	• •

LE :01 A 01 831 1105 1

ROSWELL, NEW MEXICO

FOR OSE INTERNAL USE

Application for Permit, Form wr-07, Rev 12/14/11

File Number: (-3533) Trn Number: (-9509)Trans Description (optional): E_{XPL} Sub-Basin: (-3533)PCW/LOG Due Date: (-3533)

Page 1 of 3

2. WELL(S) Describe the well(s) applicable to this application.

Location Required: Coordin (Lat/Long - WGS84)	ate location must l	be reported in NM S	tate Plane (NAD 83), UTM (NAD 83), <u>or</u> Latitude/Longitude
☐ NM State Plane (NAD83) ☐ NM West Zone ☐ NM East Zone ☐ NM Central Zone	(Feet)	UTM (NAD83) (Mete □Zone 12N □Zone 13N	Lat/Long (WGS84) (to the nearest 1/10 th of second)
Well Number (if known):	X or Easting or Longitude:	Y or Northing or Latitude:	Optional: Complete boxes labeled "Other" below with PLSS (Public Land Survey System, i.e. Quarters, Section, Township, Range); Hydrographic Survey Map & Tract; Lot, Block & Subdivision; OR Land Grant Name if known.
SITE A TMW-1			N 32* 24' 57.81" W 104* 4' 14.63"
POD1			NWSWSESF Section 03 T.225 R.28 E
SITE A TMW-2			NWSWSESE Section 03, T.225, R.28E N 32* 24' 57.85" W 104* 4' 15.38" T. 225, R.28E
POD2			NWSWSEGE, Sections = 85
SITE A TMW-3			NWSWSESE Section 03 7.225 R.28E N 32* 24' 57.85" W 104* 4' 15.38" NWSWSESE Section 3 7.225 R.28E NWSWSESE, Section 3 7.225 R.28E NWSWSESE, Section 3 7.225 NWSWSESE, Section 3 7.225 NWSWSESE, Section 3 7.225 N 32* 24'56.48" W 104*4' 16.43" THE T.225
SITE A TMW-5			N 32" 24'56.48" W 104"4' 16.43" O TO T-225
POD4			N 32* 24'56.48" W 104'4' 16.43" O THE T-225 SESESWSE Section 03 D C. 28E
			DI SISWSF, SCHON 03, TO WELL
			37-1 COE
			WR-08 (Attachment 1 - POD Descriptions)
Additional well descriptions Other description relating well		Yes No	U.L P Section 3, Twns. 22S, Range 28E
	to common landing	inks, streets, or other.	0.07 3664011 0, 14113. 123, Kango 101
Well is on land owned by: Bln	n		
Well Information: NOTE: If r	nore than one (1) w	vell needs to be des	cribed, provide attachment. Attached? 🛭 Yes 🔲 No
Approximate depth of well (fe	et): 55.00	10	Outside diameter of well casing (inches): 2.00
Driller Name: Straub		C	eriller License Number: WD 1478
3. ADDITIONAL STATEMENTS	OR EXPLANATIO	NS	
was encountered at a depth ft of 2" screen and a mesh fi developed over a period of a TMW-5 started out at approx	of approximately 5 Iter sock. The NMO about 2 weeks. The timately 2 ft. of wate	5 ft. below ground s OCD was notified of water elevation dro er column and now	neation points at a-flow line spill area. A very salty water zone surface. The soil bores were set up as temporary wells with 10 our findings. The water in the wells was sampled and pped on the average of about 2 ft. during that time frame. has moist sediment in the well bore. On 2/8/12 the NMOCD is one of many naturally occuring salt water deposits.
LE :	01 A 01 837' <i>î</i>	102	
	7.EEB 10 ▼ 10		

FOR OSE INTERNAL USE

File Number: *C-353*3

Trn Number: 495 0 9 / Page 2 of 3

Application for Permit, Form wr-07

Exploratory:	Pollution Control and/or Recovery:	Construction	Mine De-Watering:
Include a description of	☐ Include a plan for pollution control/recovery, that includes the	De-Watering: ☐ Include a description of the	☐ Include a plan for pollution control/recovery, that includes the following
any proposed	following:	proposed dewatering	A description of the need for mine
pump test, if	A description of the need for the	operation,	dewatering.
applicable.	pollution control or recovery operation. The estimated maximum period of	☐ The estimated duration of	The estimated maximum period of time
	time for completion of the operation.	the operation, The maximum amount of	for completion of the operation. The source(s) of the water to be diverted.
	☐ The annual diversion amount.	water to be diverted,	☐The geohydrologic characteristics of the
	☐ The annual consumptive use	A description of the need	aquifer(s).
	amount. The maximum amount of water to be	for the dewatering operation, and,	The maximum amount of water to be diverted per annum.
	diverted and injected for the duration of	A description of how the	The maximum amount of water to be
·	the operation.	diverted water will be disposed	diverted for the duration of the operation.
94 14 1	The method and place of discharge.	of.	The quality of the water.
Monitoring:	The method of measurement of water produced and discharged.	Geo-Thermal: ☐ Include a description of the	☐The method of measurement of water diverted.
reason for the	The source of water to be injected.	geothermal heat exchange	The recharge of water to the aquifer.
monitoring	☐ The method of measurement of	project,	Description of the estimated area of
well, and,	water injected.	☐ The amount of water to be	hydrologic effect of the project.
☐ The duration	☐ The characteristics of the aquifer. ☐ The method of determining the	diverted and re-injected for the project,	☐ The method and place of discharge. ☐ An estimation of the effects on surface
of the planned	resulting annual consumptive use of	The time frame for	water rights and underground water rights
monitoring.	water and depletion from any related	constructing the geothermal	from the mine dewatering project.
	stream system. Proof of any permit required from the	heat exchange project, and,	A description of the methods employed to
	New Mexico Environment Department.	☐ The duration of the project. ☐ Preliminary surveys, design	estimate effects on surface water rights and underground water rights.
	☐ An access agreement if the	data, and additional	☐Information on existing wells, rivers,
,	applicant is not the owner of the land on	information shall be included to	springs, and wetlands within the area of
	which the pollution plume control or recovery well is to be located.	provide all essential facts relating to the request.	hydrologic effect.
	A.	CKNOWLEDGEMENT	
			/////////
I, We (name of	applicant(s)), John A. "Tony" Savoie	rint Name(s)	A. Amos (BLM-CFO)
affirm that the fo	regoing statements are true to the best of	` '	
	regard statements are true to the best of	(my, our) knowledge and belief.	
16	m Druis 2/10/12	- ha	Q. Para 2-10-12
		/ / 2	
Applicant Signa	(ure	Applicant Signature	F. C. 1.2. Z.F. -
Applicant Signa	O .	/ /	е
Applicant Signa	O .	Applicant Signature OF THE STATE ENGINEER	F. C. 1.2. Z.F. -
Applicant Signa	O .	/ /	е
Applicant Signa	O .	OF THE STATE ENGINEER This application is:	е
provided it is n	ACTION XX approved ot exercised to the detriment of any others	OF THE STATE ENGINEER This application is: partially approved having existing rights, and is not of	ROSWELL GRANGE TO THE ENGLISH OF WATER IN New contrary to the conservation of water in New
provided it is n	ACTION XXI approved	OF THE STATE ENGINEER This application is: partially approved having existing rights, and is not of	ROSWELL ROSWELL STATE ENGINEER denied contrary to the conservation of water in New of approval.
provided it is n Mexico nor de	ACTION XX approved of exercised to the detriment of any others rimental to the public welfare and further s	OF THE STATE ENGINEER This application is: partially approved having existing rights, and is not oubject to the attached conditions of	ROSWELL ROSWELL STATE ENGINEER denied contrary to the conservation of water in New of approval.
provided it is n	ACTION XX approved of exercised to the detriment of any others rimental to the public welfare and further s	OF THE STATE ENGINEER This application is: partially approved having existing rights, and is not oubject to the attached conditions of	ROSWELL ROSWELL New MEXITY TO the State Engineer,
provided it is n Mexico nor de Witness my han	ACTION XX approved of exercised to the detriment of any others rimental to the public welfare and further so d and seal this 16th day of Febru	OF THE STATE ENGINEER This application is: partially approved having existing rights, and is not of ubject to the attached conditions of the attached cond	ROSWELL ROSWELL STATE ENGINEER denied contrary to the conservation of water in New of approval.
provided it is n Mexico nor de Witness my han	ACTION XX approved of exercised to the detriment of any others rimental to the public welfare and further s	OF THE STATE ENGINEER This application is: partially approved having existing rights, and is not oubject to the attached conditions of	ROSWELL ROSWELL New MEXITY TO the State Engineer,
provided it is n Mexico nor de Witness my han	ACTION XX approved of exercised to the detriment of any others rimental to the public welfare and further so d and seal this 16th day of Febru	OF THE STATE ENGINEER This application is: partially approved having existing rights, and is not oubject to the attached conditions of ary 2012, State Engineer	ROSWELL HOLL HOLL HOLL HOLL HOLL HOLL HOLL H
provided it is not make the Mexico nor detection. Witness my han scott. A. By: Deltection.	ACTION XX approved of exercised to the detriment of any others rimental to the public welfare and further so d and seal this 16th day of Febru	OF THE STATE ENGINEER This application is: partially approved having existing rights, and is not oubject to the attached conditions of ary 2012 State Engineer Bill Duemli	ROSWELL HOLL HOLL HOLL HOLL HOLL HOLL HOLL H
provided it is not make the Mexico nor determined by: Scott, A. By: Signature	ACTION XX approved of exercised to the detriment of any others rimental to the public welfare and further set and seal this 16th day of Febru Venhines; P.E.	OF THE STATE ENGINEER This application is: partially approved having existing rights, and is not oubject to the attached conditions of ary 2012, State Engineer	ROSWELL HOLL HOLL HOLL HOLL HOLL HOLL HOLL H
provided it is not make the Mexico nor determined. Scott: A. By: Signature Title: Carlsb.	ACTION XX approved of exercised to the detriment of any others rimental to the public welfare and further so d and seal this 16th day of Febru	OF THE STATE ENGINEER This application is: partially approved having existing rights, and is not oubject to the attached conditions of ary 2012 State Engineer Bill Duemli	ROSWELL HOLL HOLL HOLL HOLL HOLL HOLL HOLL H
provided it is not make the Mexico nor determined by: Scott, A. By: Signature	ACTION XX approved of exercised to the detriment of any others rimental to the public welfare and further sed and seal this 16th day of Febru Verhines; P.E.	This application is: partially approved having existing rights, and is not oubject to the attached conditions of ary 2012 State Engineer Bill Duemli Print	ROSWELL NOW MER OFFICE for the State Engineer To the State Engineer
provided it is not make the Mexico nor determined. Scott: A. By: Signature Title: Carlsb.	ACTION XX approved of exercised to the detriment of any others rimental to the public welfare and further sed and seal this 16th day of Febru Verhines; P.E.	This application is: partially approved having existing rights, and is not oubject to the attached conditions of ary 2012 State Engineer Bill Duemli Print	ROSWELL HOLL HOLL HOLL HOLL HOLL HOLL HOLL H

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NEW MEXICO STATE ENGINEER OFFICE PERMIT TO EXPLORE

SPECIFIC CONDITIONS OF APPROVAL

- Depth of the well shall not exceed the thickness of the valley fill.
- 4 No water shall be appropriated and beneficially used under this permit.
- B The well shall be drilled by a driller licensed in the State of New Mexico in accordance with Section 72-12-12 New Mexico Statutes . Annotated.
- C Driller's well record must be filed with the State Engineer within:

 20 days after the well is drilled or driven. Well record forms

 will be provided by the State Engineer upon request.
- LOG The Point of Diversion C 03533 POD1 must be completed and the Well Log filed on or before 02/28/2013.
- LOG The Point of Diversion C 03533 POD2 must be completed and the Well Log filed on or before 02/28/2013.
- LOG The Point of Diversion C 03533 POD3 must be completed and the Well Log filed on or before 02/28/2013.
- LOG The Point of Diversion C 03533 POD4 must be completed and the Well Log filed on or before 02/28/2013.

NO WATER SHALL BE DIVERTED FROM THESE WELLS EXCEPT FOR TESTING PURPOSES WHICH SHALL NOT EXCEED TEN (10) CUMULATIVE DAYS, AND WELLS SHALL BE PLUGGED OR CAPPED ON OR BEFORE 02/28/2013, UNLESS A PERMIT TO USE WATER FROM THESE WELLS IS ACQUIRED FROM THE OFFICE OF THE STATE ENGINEER.

THE WELLS SHALL BE CONSTRUCTED, MAINTAINED AND OPERATED THAT EACH WATER SHALL BE CONFINED TO THE AQUIFER IN WHICH IT IS ENCOUNTERED.

Trn Desc: C 03533-WATER QUALITY SAMPLING

File Number: <u>C 03533</u>

Trn Number: 495091

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Sc to

Py:

Tro Design

NEW MEXICO STATE ENGINEER OFFICE PERMIT TO EXPLORE

ACTION OF STATE ENGINEER

Notice of Intention Rcvd: Date Rcvd. Corrected: Formal Application Rcvd: 02/10/2012 Pub. of Notice Ordered: Date Returned - Correction: Affidavit of Pub. Filed:

This application is approved provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public welfare of the state; and further subject to the specific conditions listed previously.

Witness my hand and seal this 16 day of Feb A.D., 2012

Scott A. Verhines, P.E. , State Engineer

Bill Duemling, Basin Supv.

Trn Desc: C 03533-WATER QUALITY SAMPLING

File Number: C 03533

Trn Number: 495091

page: 2

Locator Tool Report

General Information:

Application ID:30 Date: 02-15-2012 Time: 15:21:02

WR File Number: C-03533-POD1

Purpose: POINT OF DIVERSION

Applicant First Name: BOPCO LLP

Applicant Last Name: EXPLORATORY WELLS (POD ONE OF FOUR)

GW Basin: CARLSBAD County: EDDY

Critical Management Area Name(s): NONE Special Condition Area Name(s): NONE

Land Grant Name: NON GRANT

PLSS Description (New Mexico Principal Meridian):

NW 1/4 of SW 1/4 of SE 1/4 of SE 1/4 of Section 03, Township 22S, Range 28E.

Coordinate System Details:

Geographic Coordinates:

Latitude: 32 Degrees 24 Minutes 57.8 Seconds N Longitude: 104 Degrees 4 Minutes 14.6 Seconds W

Universal Transverse Mercator Zone: 13N

 NAD 1983(92) (Meters)
 N: 3,586,934
 E: 587,377

 NAD 1983(92) (Survey Feet)
 N: 11,768,133
 E: 1,927,087

 NAD 1927 (Meters)
 N: 3,586,732
 E: 587,426

 NAD 1927 (Survey Feet)
 N: 11,767,470
 E: 1,927,248

State Plane Coordinate System Zone: New Mexico East

 NAD 1983(92) (Meters)
 N: 157,031
 E: 189,699

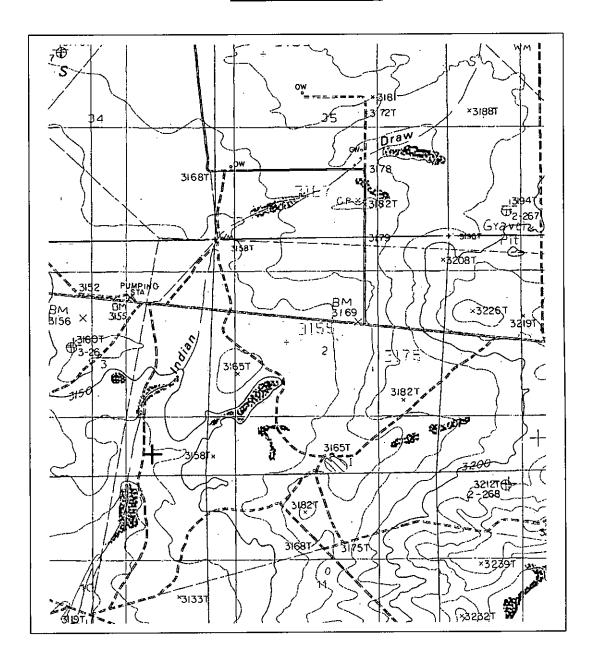
 NAD 1983(92) (Survey Feet)
 N: 515,193
 E: 622,372

 NAD 1927 (Meters)
 N: 157,013
 E: 177,147

 NAD 1927 (Survey Feet)
 N: 515,132
 E: 581,190

NEW MEXICO OFFICE OF STATE ENGINEER

Locator Tool Report





WR File Number: C-03533-POD1 Scale: 1:26,394

Northing/Easting: UTM83(92) (Meter): N: 3,586,934 E: 587,377

Northing/Easting: SPCS83(92) (Feet): N: 515,193 E: 622,372

GW Basin: Carlsbad

Page 2 of 2 Print Date: 02/15/2012

Locator Tool Report

General Information:

Application ID:30

Date: 02-15-2012

Time: 15:23:34

WR File Number: C-03533-POD2

Purpose: POINT OF DIVERSION

Applicant First Name: BOPCO LLP

Applicant Last Name: EXPLORATORY WELLS (POD TWO OF FOUR)

GW Basin: CARLSBAD County: EDDY

Critical Management Area Name(s): NONE Special Condition Area Name(s): NONE

Land Grant Name: NON GRANT

PLSS Description (New Mexico Principal Meridian):

NW 1/4 of SW 1/4 of SE 1/4 of SE 1/4 of Section 03, Township 22S, Range 28E...

Coordinate System Details:

Geographic Coordinates:

Latitude:

32 Degrees 24 Minutes 57.9 Seconds N

Longitude: 10

104 Degrees 4 Minutes 15.4 Seconds W

Universal Transverse Mercator Zone: 13N

 NAD 1983(92) (Meters)
 N: 3,586,935
 E: 587,358

 NAD 1983(92) (Survey Feet)
 N: 11,768,136
 E: 1,927,023

 NAD 1927 (Meters)
 N: 3,586,733
 E: 587,407

 NAD 1927 (Survey Feet)
 N: 11,767,473
 E: 1,927,184

State Plane Coordinate System Zone: New Mexico East

 NAD 1983(92) (Meters)
 N: 157,032
 E: 189,680

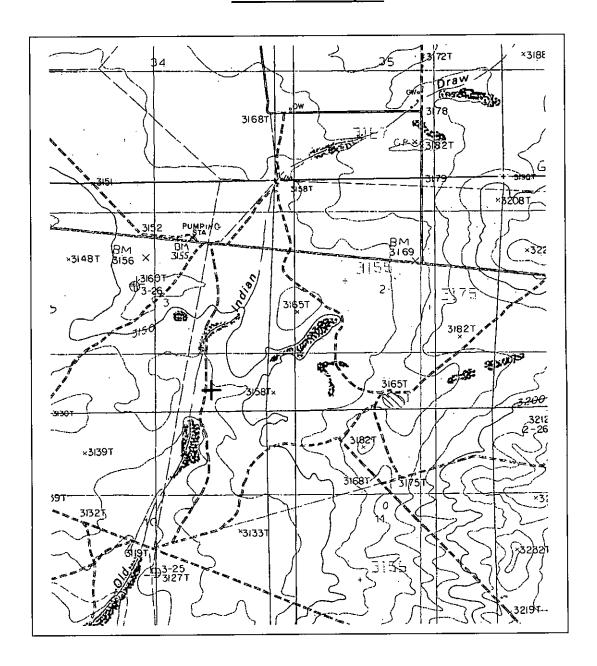
 NAD 1983(92) (Survey Feet)
 N: 515,197
 E: 622,307

 NAD 1927 (Meters)
 N: 157,014
 E: 177,127

 NAD 1927 (Survey Feet)
 N: 515,136
 E: 581,126

NEW MEXICO OFFICE OF STATE ENGINEER

Locator Tool Report





WR File Number: C-03533-POD2 Scale: 1:26,992

Northing/Easting: UTM83(92) (Meter): N: 3,586,935 E: 587,358

Northing/Easting: SPCS83(92) (Feet): N: 515,197 E: 622,307

GW Basin: Carlsbad

Page 2 of 2 Print Date: 02/15/2012

Locator Tool Report

General Information:

Application ID:30

Date: 02-15-2012

Time: 15:25:13

WR File Number: C-03533-POD3

Purpose: POINT OF DIVERSION

Applicant First Name: BOPCO LLP

Applicant Last Name: EXPLORATORY WELLS (POD THREE OF FOUR)

GW Basin: CARLSBAD County: EDDY

Critical Management Area Name(s): NONE Special Condition Area Name(s): NONE

Land Grant Name: NON GRANT

PLSS Description (New Mexico Principal Meridian):

NW 1/4 of SW 1/4 of SE 1/4 of SE 1/4 of Section 03, Township 22S, Range 28E.

Coordinate System Details:

Geographic Coordinates:

Latitude: Longitude: 32 Degrees 24 Minutes 57.1 Seconds N 104 Degrees 4 Minutes 14.9 Seconds W

Universal Transverse Mercator Zone: 13N

 NAD 1983(92) (Meters)
 N: 3,586,911
 E: 587,370

 NAD 1983(92) (Survey Feet)
 N: 11,768,058
 E: 1,927,063

 NAD 1927 (Meters)
 N: 3,586,709
 E: 587,419

 NAD 1927 (Survey Feet)
 N: 11,767,395
 E: 1,927,224

State Plane Coordinate System Zone: New Mexico East

 NAD 1983(92) (Meters)
 N: 157,008
 E: 189,692

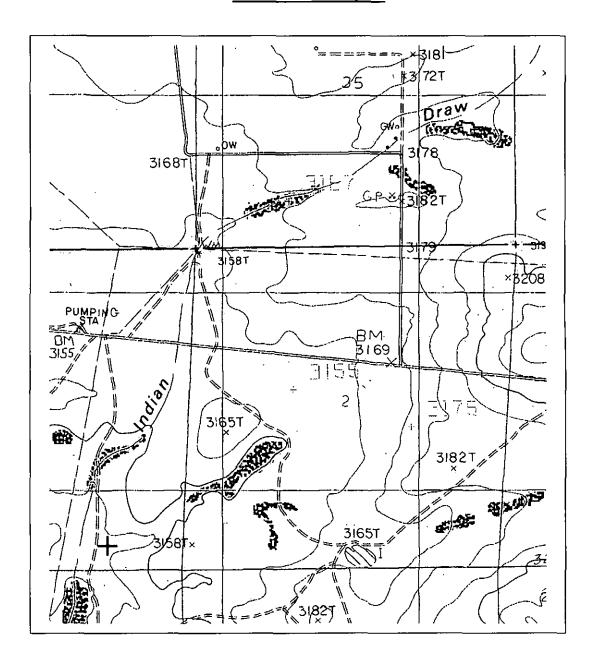
 NAD 1983(92) (Survey Feet)
 N: 515,118
 E: 622,347

 NAD 1927 (Meters)
 N: 156,990
 E: 177,140

 NAD 1927 (Survey Feet)
 N: 515,058
 E: 581,165

NEW MEXICO OFFICE OF STATE ENGINEER

Locator Tool Report





WR File Number: C-03533-POD3 Scale: 1:19,265

Northing/Easting: UTM83(92) (Meter): N: 3,586,911 E: 587,370

Northing/Easting: SPCS83(92) (Feet): N: 515,118 E: 622,347

GW Basin: Carlsbad

Page 2 of 2 Print Date: 02/15/2012

Locator Tool Report

General Information:

Application ID:30 Date: 02-15-2012 Time: 15:28:24

WR File Number: C-03533-POD4

Purpose: POINT OF DIVERSION

Applicant First Name: BOPCO LLP

Applicant Last Name: EXPLORATORY WELLS (POD FOUR OF FOUR)

GW Basin: CARLSBAD County: EDDY

Critical Management Area Name(s): NONE Special Condition Area Name(s): NONE

Land Grant Name: NON GRANT

PLSS Description (New Mexico Principal Meridian):

SE 1/4 of SE 1/4 of SW 1/4 of SE 1/4 of Section 03, Township 22S, Range 28E.

Coordinate System Details:

Geographic Coordinates:

Latitude: 32 Degrees 24 Minutes 56.5 Seconds N Longitude: 104 Degrees 4 Minutes 16.4 Seconds W

Universal Transverse Mercator Zone: 13N

 NAD 1983(92) (Meters)
 N: 3,586,893
 E: 587,331

 NAD 1983(92) (Survey Feet)
 N: 11,767,997
 E: 1,926,934

 NAD 1927 (Meters)
 N: 3,586,691
 E: 587,380

 NAD 1927 (Survey Feet)
 N: 11,767,334
 E: 1,927,095

State Plane Coordinate System Zone: New Mexico East

 NAD 1983(92) (Meters)
 N: 156,990
 E: 189,652

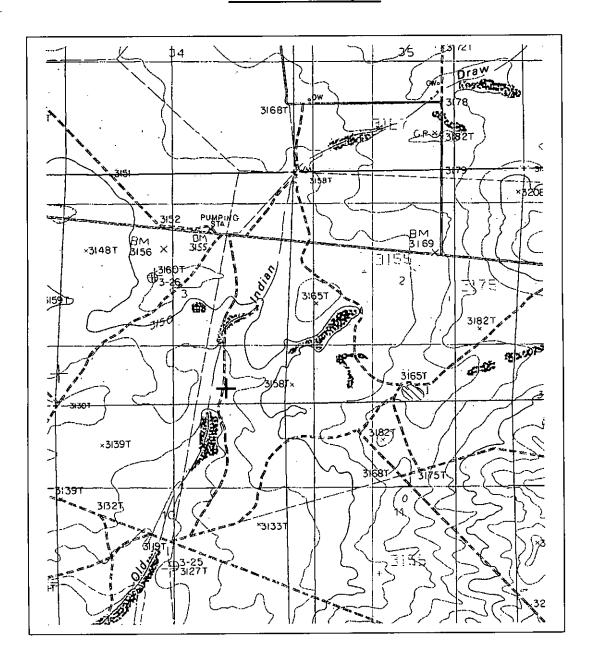
 NAD 1983(92) (Survey Feet)
 N: 515,058
 E: 622,218

 NAD 1927 (Meters)
 N: 156,972
 E: 177,100

 NAD 1927 (Survey Feet)
 N: 514,998
 E: 581,036

NEW MEXICO OFFICE OF STATE ENGINEER

Locator Tool Report



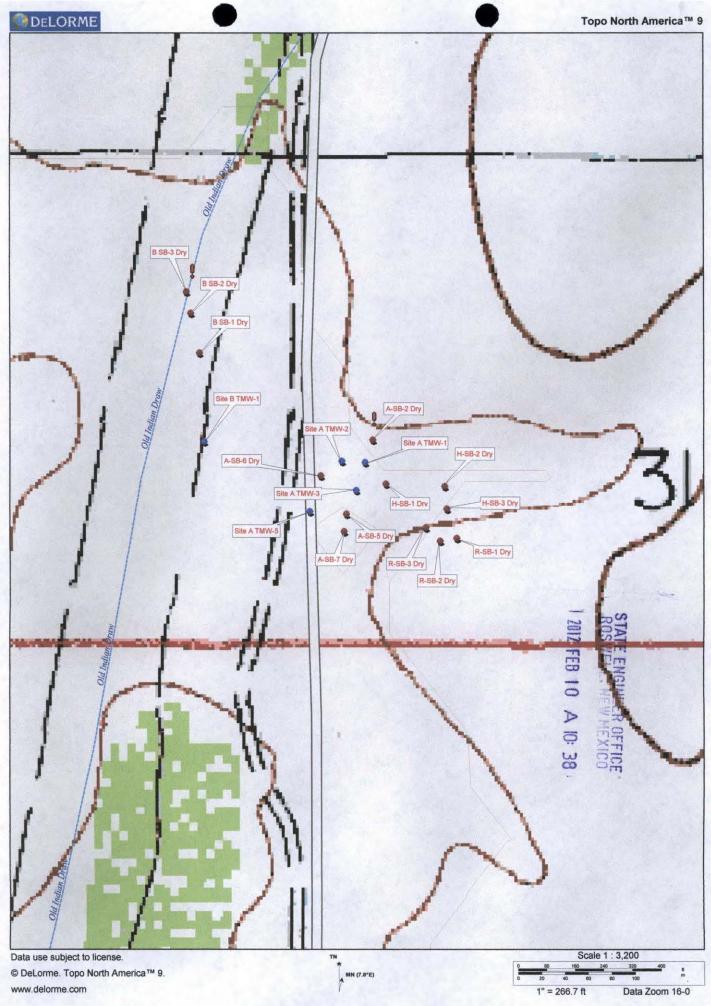


Northing/Easting: UTM83(92) (Meter): N: 3,586,893 E: 587,331

Northing/Easting: SPCS83(92) (Feet): N: 515,058 E: 622,218

GW Basin: Carlsbad

Page 2 of 2 Print Date: 02/15/2012



BOPCO L.P. BASS 3 FEDERAL #4 PROJECT

В	В	В	В	>	>	>	>	>	>	A	>	Site	В	В	В	8	>	>	>	>	>	A	A	A	Site
SB-4	SB-3	SB-2	SB-1	SB-8	SB-7	SB-6	SB-5	SB-4	SB-3	SB-2	SB-1	Soil Bore	SB-4	SB-3	SB-2	SB-1	SB-8	SB-7	SB-6	SB-5	SB-4	SB-3	SB-2	SB-1	Soil Bore
32.416216	32.41735	32.41719	32.41688	32.41569	32.41554	32.41596	32.41567	32.41585	32.41607	32.41623	32.41606	Lat Degrees	TMW-1				TMW-5				TMW-3	TMW-2		TMW-1	Temp. Well
104.072189	104.07235	104.07231	104.07223	104.07123	104.07092	104.07113	104.0709	104.07081	104.07094	104.07066	104.07073	Long. Degrees	147.86	110	60	40	54.95	55	55	55	54.95	54.95	55	55.48	Total Depth ft.
													42.27	Dry	Dry	Dry	0.25	Dry	Dry	Dry	5.5	4.6	Dry	5.58	Water Column ft.
N32* 24' 58.38" W 104* 4' 19.89"	N32* 25' 2.47" W 104* 4' 20.45"	N32* 25' 1.88" VY 104*4' 20.32" 3 JASUS		N32* 24' 56.48" W 1.04* W 16 43'83 107	N32* 24' 55.94" W 104* 4' 15.31"	N32* 24' 57.45" W 104* 4' 16.06"	N32* 24' 56.42" W 104* 4' 15.24"	N32* 24' 57.07" W 104* 4' 14.92"	N32* 24' 57.85" W 104* 4' 15.38"	N32* 24' 58.42" W 104* 4' 14.37"	N32* 24' 57.81" W 104* 4' 14.63"	Degrees, Minutes, Seconds	Temporary well, pending permanent completion.	Bore was plugged with bentonite	Bore was plugged with bentonite	Bore was plugged with bentonite	Temporary well, pending plugging.	Bore was plugged with bentonite.	Bore was plugged with bentonite.	Originally set as TMW-4 "dry Hole" plugged with bentonite	Temporary well, pending plugging.	Temporary well, pending plugging.	Bore was plugged with bentonite.	Temporary well, pending plugging.	t. Status

Temporary Well Plugging Plan

BOPCO L.P. will upon approval by the New Mexico Office Of The State Engineer plug the temporary wells at the remediation project know as the Bass 3 Federal #4 Site A. A licensed driller will remove the 2" pipe and screen from the bore. The bore will then be filled with bentonite, the bore will be gauged as the bentonite is poured and hydrated to assure a uniform seal from surface to total depth; the number of bags of bentonite used to plug the hole will be recorded and logged by the driller.

Tony Savoie

Waste Management and Remediation Specialist.

STATE ENGINEER OFFICE
ROSWELL, HEW MEXICO

Scott A. Verhines, P.E. State Engineer

STATE OF NEW MEXICO OFFICE OF THE STATE ENGINEER

Roswell Office 1900 WEST SECOND STREET ROSWELL, NM 88201

Trn Nbr: 495091 File Nbr: C 03533

Feb. 16, 2012

JAMES AMOS
U.S. DEPT. OF INTERIOR--BLM
620 EAST GREENE STREET
CARLSBAD, NM 88220-6292

Greetings:

Enclosed is your copy of the above numbered permit that has been approved subject to the conditions set forth on the approval page. In accordance with the conditions of approval, the well can only be tested for 10 cumulative days, and the well is to be plugged on or before 02/28/2013, unless a permit to use the water is acquired from this office.

A Well Record & Log (OSE Form wr-20) shall be filed in this office within twenty (20) days after completion of drilling, but no later than 02/28/2013.

Appropriate forms can be downloaded from the OSE website www.ose.state.nm.us or will be mailed upon request.

Sincerely,

Bill Duemling / (575) 622-6521

Enclosure

explore



APPENDIX B

Photographic Log



Photographic Log
XTO Energy, Inc
Big Eddy Unit 156
Incident Number NAPP2306844555





Photograph 1 Date: 3/27/2023
Description: Site assessment activities, release extent.

View: Southwest

Photograph 2 Date: 4/3/2023 Description: Delineation activities, release extent area.

View: North





View: Southwest

Description: Final excavation extent.



Photograph 4 Date: 5/18/2023

Description: Excavation backfilled

View: South



APPENDIX C

Laboratory Analytical Reports & Chain of Custody Documentation

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Tacoma Morrissey
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701
Generated 4/13/2023 9:03:07 AM

JOB DESCRIPTION

BEU 156 Fire SDG NUMBER 03C1558194

JOB NUMBER

890-4457-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220



Eurofins Carlsbad

Job Notes

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

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

Authorization

Generated 4/13/2023 9:03:07 AM

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

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14

Client: Ensolum
Project/Site: BEU 156 Fire
Laboratory Job ID: 890-4457-1
SDG: 03C1558194

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Cover Page	1
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Surrogate Summary	10
QC Sample Results	11
QC Association Summary	15
Lab Chronicle	17
Certification Summary	19
Method Summary	20
Sample Summary	21
Chain of Custody	22
Receipt Checklists	23

Definitions/Glossary

Job ID: 890-4457-1 Client: Ensolum Project/Site: BEU 156 Fire SDG: 03C1558194

Qualifiers

GC VOA Qualifier

Qualifier Description F1 MS and/or MSD recovery exceeds control limits.

F2 MS/MSD RPD exceeds control limits

S1-Surrogate recovery exceeds control limits, low biased. U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description**

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

DFR 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

Decision Level Concentration (Radiochemistry) DLC

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

EPA recommended "Maximum Contaminant Level" MCL MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

Method Detection Limit MDL 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

Toxicity Equivalent Factor (Dioxin) TEF Toxicity Equivalent Quotient (Dioxin) TEQ

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum Job ID: 890-4457-1 Project/Site: BEU 156 Fire SDG: 03C1558194

Job ID: 890-4457-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4457-1

Receipt

The samples were received on 4/3/2023 4:09 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.0°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SS01 (890-4457-1), SS02 (890-4457-2), SS03 (890-4457-3) and SS04 (890-4457-4).

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: SS02 (890-4457-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-50990 and analytical batch 880-50945 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

GC Semi VOA

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

HPLC/IC

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

Matrix: Solid

Lab Sample ID: 890-4457-1

Client Sample Results

 Client: Ensolum
 Job ID: 890-4457-1

 Project/Site: BEU 156 Fire
 SDG: 03C1558194

Client Sample ID: SS01

Date Collected: 04/03/23 11:55 Date Received: 04/03/23 16:09

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		04/12/23 12:13	04/12/23 23:25	1
Toluene	< 0.00199	U	0.00199	mg/Kg		04/12/23 12:13	04/12/23 23:25	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		04/12/23 12:13	04/12/23 23:25	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		04/12/23 12:13	04/12/23 23:25	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		04/12/23 12:13	04/12/23 23:25	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		04/12/23 12:13	04/12/23 23:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130			04/12/23 12:13	04/12/23 23:25	1
1,4-Difluorobenzene (Surr)	85		70 - 130			04/12/23 12:13	04/12/23 23:25	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			04/13/23 09:53	1
Analyte Total TDU		Qualifier		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U						
			50.0	mg/Kg			04/09/23 22:35	1
Method: SW846 8015B NM - Die:	sel Range Orga	nics (DRO)		mg/Kg			04/09/23 22:35	1
Method: SW846 8015B NM - Die: Analyte	• •	inics (DRO) Qualifier		mg/Kg Unit	D	Prepared	04/09/23 22:35 Analyzed	
Analyte Gasoline Range Organics	• •	Qualifier	(GC)		<u>D</u>	Prepared 04/05/23 16:03		Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10	Result	Qualifier U	(GC)	<mark>Unit</mark> mg/Kg	<u>D</u>	04/05/23 16:03	Analyzed 04/07/23 14:25	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.0	Qualifier U	(GC) RL 50.0	Unit	<u>D</u>		Analyzed	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)	Result <50.0	Qualifier U	(GC) RL 50.0	<mark>Unit</mark> mg/Kg	<u>D</u>	04/05/23 16:03	Analyzed 04/07/23 14:25	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0 <50.0	Qualifier U U U	(GC) RL 50.0	Unit mg/Kg mg/Kg	<u>D</u>	04/05/23 16:03 04/05/23 16:03	Analyzed 04/07/23 14:25 04/07/23 14:25	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <50.0 <50.0 <50.0	Qualifier U U U	(GC) RL 50.0 50.0 50.0	Unit mg/Kg mg/Kg	<u> </u>	04/05/23 16:03 04/05/23 16:03 04/05/23 16:03	Analyzed 04/07/23 14:25 04/07/23 14:25 04/07/23 14:25	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate	Result	Qualifier U U U	(GC) RL 50.0 50.0 50.0 Limits	Unit mg/Kg mg/Kg	<u>D</u>	04/05/23 16:03 04/05/23 16:03 04/05/23 16:03 <i>Prepared</i>	Analyzed 04/07/23 14:25 04/07/23 14:25 04/07/23 14:25 Analyzed	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result	Qualifier U U Qualifier	RL 50.0 50.0 50.0 50.0 Limits 70 - 130 70 - 130	Unit mg/Kg mg/Kg	<u>D</u>	04/05/23 16:03 04/05/23 16:03 04/05/23 16:03 Prepared 04/05/23 16:03	Analyzed 04/07/23 14:25 04/07/23 14:25 04/07/23 14:25 Analyzed 04/07/23 14:25	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U U Qualifier	RL 50.0 50.0 50.0 50.0 Limits 70 - 130 70 - 130	Unit mg/Kg mg/Kg	D	04/05/23 16:03 04/05/23 16:03 04/05/23 16:03 Prepared 04/05/23 16:03	Analyzed 04/07/23 14:25 04/07/23 14:25 04/07/23 14:25 Analyzed 04/07/23 14:25	Dil Face 1 1 Dil Face 1 Dil Face

Client Sample ID: SS02

Date Collected: 04/03/23 12:00 Date Received: 04/03/23 16:09

Date Received. 04/00/20 10.0

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		04/12/23 12:13	04/12/23 23:45	1
Toluene	<0.00199	U	0.00199	mg/Kg		04/12/23 12:13	04/12/23 23:45	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		04/12/23 12:13	04/12/23 23:45	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		04/12/23 12:13	04/12/23 23:45	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		04/12/23 12:13	04/12/23 23:45	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		04/12/23 12:13	04/12/23 23:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		70 - 130			04/12/23 12:13	04/12/23 23:45	

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Lab Sample ID: 890-4457-2

Matrix: Solid

Matrix: Solid

Lab Sample ID: 890-4457-2

Job ID: 890-4457-1

Client: Ensolum Project/Site: BEU 156 Fire SDG: 03C1558194

Client Sample ID: SS02

Date Collected: 04/03/23 12:00 Date Received: 04/03/23 16:09

Sample Depth: 0.5'

Method: SW846 8021B	 Volatile Organic Compounds ((GC) (Continued)
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Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1.4-Difluorobenzene (Surr)	62	S1-	70 - 130	04/12/23 12:13	04/12/23 23:45	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			04/13/23 09:53	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			04/09/23 22:35	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		04/05/23 16:03	04/07/23 14:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/05/23 16:03	04/07/23 14:47	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/05/23 16:03	04/07/23 14:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qu	ualifier Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	77	70 - 130	04/05/23 16:03	04/07/23 14:47	1
o-Terphenyl	81	70 - 130	04/05/23 16:03	04/07/23 14:47	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	34.6		4.95	mg/Kg			04/09/23 15:28	1

Client Sample ID: SS03 Lab Sample ID: 890-4457-3

Date Collected: 04/03/23 12:05 Date Received: 04/03/23 16:09

Sample Depth: 0.5'

Method: SW846 8021B -	M-1-4!1- O	0 (00)

method. 344040 002 rb - Volatile Organic Compounds (GC)								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/12/23 12:13	04/13/23 00:06	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/12/23 12:13	04/13/23 00:06	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/12/23 12:13	04/13/23 00:06	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		04/12/23 12:13	04/13/23 00:06	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/12/23 12:13	04/13/23 00:06	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		04/12/23 12:13	04/13/23 00:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130			04/12/23 12:13	04/13/23 00:06	1
1 4-Difluorobenzene (Surr)	82		70 130			04/12/23 12:13	04/13/23 00:06	1

Method: TAI	SOP Total RTFY	- Total RTFY	Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00399	U	0.00399	mg/Kg			04/13/23 09:53	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	85.4		49.8	mg/Kg			04/09/23 22:35	1	

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Matrix: Solid

Job ID: 890-4457-1

Client: Ensolum Project/Site: BEU 156 Fire SDG: 03C1558194

Client Sample ID: SS03 Lab Sample ID: 890-4457-3

Date Collected: 04/03/23 12:05 Matrix: Solid Date Received: 04/03/23 16:09

Sample Depth: 0.5'

Method: SW846 8015B NM - Dies	el Range Orga	nics (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		04/05/23 16:03	04/07/23 15:32	1
Diesel Range Organics (Over C10-C28)	85.4		49.8	mg/Kg		04/05/23 16:03	04/07/23 15:32	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		04/05/23 16:03	04/07/23 15:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130			04/05/23 16:03	04/07/23 15:32	1
o-Terphenyl	106		70 - 130			04/05/23 16:03	04/07/23 15:32	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	35.8		5.02	mg/Kg			04/09/23 15:33	1

Client Sample ID: SS04 Lab Sample ID: 890-4457-4 Matrix: Solid

Date Collected: 04/03/23 12:10 Date Received: 04/03/23 16:09

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		04/12/23 12:13	04/13/23 03:10	1
Toluene	<0.00199	U	0.00199	mg/Kg		04/12/23 12:13	04/13/23 03:10	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		04/12/23 12:13	04/13/23 03:10	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		04/12/23 12:13	04/13/23 03:10	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		04/12/23 12:13	04/13/23 03:10	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		04/12/23 12:13	04/13/23 03:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			04/12/23 12:13	04/13/23 03:10	1
1,4-Difluorobenzene (Surr)	84		70 - 130			04/12/23 12:13	04/13/23 03:10	1
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			04/13/23 09:53	1
Method: SW846 8015 NM - Diese	I Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			04/09/23 22:35	1
Method: SW846 8015B NM - Dies	sel Range Orga	nics (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		04/05/23 16:03	04/07/23 15:54	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/05/23 16:03	04/07/23 15:54	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/05/23 16:03	04/07/23 15:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	76		70 - 130			04/05/23 16:03	04/07/23 15:54	1
o-Terphenyl	80		70 - 130			04/05/23 16:03	04/07/23 15:54	1

Sample Depth: 0.5'

Client Sample Results

 Client: Ensolum
 Job ID: 890-4457-1

 Project/Site: BEU 156 Fire
 SDG: 03C1558194

Client Sample ID: SS04 Lab Sample ID: 890-4457-4

Date Collected: 04/03/23 12:10 Matrix: Solid

Date Received: 04/03/23 16:09

 Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

 Analyte
 Result
 Qualifier
 RL
 Unit
 D
 Prepared
 Analyzed
 Dil Fac

 Chloride
 68.3
 5.03
 mg/Kg
 04/09/23 15:37
 1

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Surrogate Summary

Job ID: 890-4457-1 Client: Ensolum Project/Site: BEU 156 Fire SDG: 03C1558194

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1	Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-27093-A-1-A MS	Matrix Spike	94	109	
880-27093-A-1-B MSD	Matrix Spike Duplicate	71	76	
890-4457-1	SS01	113	85	
890-4457-2	SS02	78	62 S1-	
890-4457-3	SS03	109	82	
890-4457-4	SS04	111	84	
LCS 880-50990/1-A	Lab Control Sample	101	108	
LCSD 880-50990/2-A	Lab Control Sample Dup	99	112	
MB 880-50827/5-A	Method Blank	79	96	
MB 880-50990/5-A	Method Blank	72	82	

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
ab Sample ID	Client Sample ID	(70-130)	(70-130)	
80-26670-A-61-B MS	Matrix Spike	118	108	
80-26670-A-61-C MSD	Matrix Spike Duplicate	115	105	
90-4457-1	SS01	89	94	
90-4457-2	SS02	77	81	
90-4457-3	SS03	101	106	
90-4457-4	SS04	76	80	
CS 880-50425/2-A	Lab Control Sample	104	109	
CSD 880-50425/3-A	Lab Control Sample Dup	89	94	
1B 880-50425/1-A	Method Blank	101	113	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Ensolum Job ID: 890-4457-1 SDG: 03C1558194 Project/Site: BEU 156 Fire

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-50827/5-A

Matrix: Solid

Analysis Batch: 50945

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 50827

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/10/23 11:52	04/12/23 10:50	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/10/23 11:52	04/12/23 10:50	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/10/23 11:52	04/12/23 10:50	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		04/10/23 11:52	04/12/23 10:50	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/10/23 11:52	04/12/23 10:50	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		04/10/23 11:52	04/12/23 10:50	1

MB MB

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	79		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Prepared Analyzed Dil Fac 04/10/23 11:52 04/12/23 10:50 04/10/23 11:52 04/12/23 10:50

Lab Sample ID: MB 880-50990/5-A	Client Sample ID: Method Blank
Matrix: Solid	Prep Type: Total/NA
Analysis Batch: 50945	Prep Batch: 50990
MB MB	

Analyte	Result C	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200 U	J	0.00200	mg/Kg		04/12/23 12:13	04/12/23 22:22	1
Toluene	<0.00200 U	J	0.00200	mg/Kg		04/12/23 12:13	04/12/23 22:22	1
Ethylbenzene	<0.00200 U	J	0.00200	mg/Kg		04/12/23 12:13	04/12/23 22:22	1
m-Xylene & p-Xylene	<0.00400 U	J	0.00400	mg/Kg		04/12/23 12:13	04/12/23 22:22	1
o-Xylene	<0.00200 U	J	0.00200	mg/Kg		04/12/23 12:13	04/12/23 22:22	1
Xylenes, Total	<0.00400 U	J	0.00400	mg/Kg		04/12/23 12:13	04/12/23 22:22	1

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Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	72		70 - 130	04/12/23 12	13 04/12/23 22:22	1
1,4-Difluorobenzene (Surr)	82		70 - 130	04/12/23 12	13 04/12/23 22:22	1

Lab Sample ID: LCS 880-50990/1-A

Matrix: Solid

Analysis Batch: 50945

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 50990

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1089		mg/Kg		109	70 - 130	
Toluene	0.100	0.09836		mg/Kg		98	70 - 130	
Ethylbenzene	0.100	0.09552		mg/Kg		96	70 - 130	
m-Xylene & p-Xylene	0.200	0.2013		mg/Kg		101	70 - 130	
o-Xylene	0.100	0.1024		mg/Kg		102	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	101	70 - 130
1.4-Difluorobenzene (Surr)	108	70 - 130

Lab Sample ID: LCSD 880-50990/2-A

Matrix: Solid

Analysis Batch: 50945

Client Sample ID: La	b Control Sample Dup
	Dren Times Tetal/NA

Prep Type: Total/NA

Prep Batch: 50990

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1199		mg/Kg		120	70 - 130	10	35

QC Sample Results

Client: Ensolum Job ID: 890-4457-1 Project/Site: BEU 156 Fire SDG: 03C1558194

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

Lab Sample ID: LCSD 880-50990/2-A

Matrix: Solid Analysis Batch: 50945 Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 50990

Spike LCSD LCSD %Rec **RPD** Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit Toluene 0.100 0.1060 106 70 - 130 35 mg/Kg Ethylbenzene 0.100 0.1013 mg/Kg 101 70 - 130 0.200 0.2114 70 - 130 m-Xylene & p-Xylene mg/Kg 106 35 5 o-Xylene 0.100 0.1077 mg/Kg 108 70 - 130 5

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	112		70 - 130

Lab Sample ID: 880-27093-A-1-A MS

Matrix: Solid

Analysis Batch: 50945

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 50990

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U F1 F2	0.0998	0.06239	F1	mg/Kg		63	70 - 130	
Toluene	<0.00201	U F1 F2	0.0998	0.05144	F1	mg/Kg		52	70 - 130	
Ethylbenzene	<0.00201	U F1 F2	0.0998	0.05442	F1	mg/Kg		55	70 - 130	
m-Xylene & p-Xylene	<0.00402	U F1 F2	0.200	0.1014	F1	mg/Kg		51	70 - 130	
o-Xylene	<0.00201	U F1 F2	0.0998	0.05754	F1	mg/Kg		58	70 - 130	

MS MS

Surrogate	%Recovery Qualifier	Limits		
4-Bromofluorobenzene (Surr)	94	70 - 130		
1,4-Difluorobenzene (Surr)	109	70 - 130		

Lab Sample ID: 880-27093-A-1-B MSD

Matrix: Solid

Analysis Batch: 50945

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA Prep Batch: 50990

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	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00201	U F1 F2	0.0990	0.02572	F1 F2	mg/Kg		26	70 - 130	83	35
Toluene	<0.00201	U F1 F2	0.0990	0.02450	F1 F2	mg/Kg		25	70 - 130	71	35
Ethylbenzene	<0.00201	U F1 F2	0.0990	0.02449	F1 F2	mg/Kg		25	70 - 130	76	35
m-Xylene & p-Xylene	<0.00402	U F1 F2	0.198	0.04329	F1 F2	mg/Kg		22	70 - 130	80	35
o-Xylene	<0.00201	U F1 F2	0.0990	0.02653	F1 F2	mg/Kg		27	70 - 130	74	35
The state of the s											

MSD MSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	71	70 - 130
1,4-Difluorobenzene (Surr)	76	70 - 130

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

Lab Sample ID: MB 880-50425/1-A

Matrix: Solid

Analysis Batch: 50572

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

Prep Batch: 50425

MB MB Result Qualifier RL Unit Prepared Analyzed Gasoline Range Organics <50.0 U 50.0 mg/Kg 04/05/23 16:03 04/07/23 08:12

(GRO)-C6-C10

Client: Ensolum Job ID: 890-4457-1 SDG: 03C1558194 Project/Site: BEU 156 Fire

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

Lab Sample ID: MB 880-50425/1-A

Lab Sample ID: LCS 880-50425/2-A

Matrix: Solid

Matrix: Solid

Analysis Batch: 50572

Analysis Batch: 50572

Client	Sample	ID:	Me	thod	Blar	ık
			_	_		

Prep Type: Total/NA Prep Batch: 50425

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		04/05/23 16:03	04/07/23 08:12	1
C10-C28) Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/05/23 16:03	04/07/23 08:12	1

MB MB

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130	04/05/23 16:03	04/07/23 08:12	1
o-Terphenyl	113		70 - 130	04/05/23 16:03	04/07/23 08:12	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 50425

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 1132 113 70 - 130 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 844.1 mg/Kg 84 70 - 130C10-C28)

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	104		70 - 130
o-Terphenyl	109		70 - 130

Matrix: Solid Analysis Batch: 50572

Lab Sample ID: LCSD 880-50425/3-A

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

Prep Batch: 50425

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	1000	970.1		mg/Kg		97	70 - 130	15	20	
(GRO)-C6-C10										
Diesel Range Organics (Over	1000	765.4		mg/Kg		77	70 - 130	10	20	
C10-C28)										

LCSD LCSD Surrogate %Recovery Qualifier Limits

1-Chlorooctane 89 70 - 130 o-Terphenyl 94 70 - 130

Lab Sample ID: 880-26670-A-61-B MS

Matrix: Solid

Analysis Batch: 50572

Client Sample ID: Matrix Spike

Prep Type: Total/NA Prep Batch: 50425

MS MS Sample Sample Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits <49.9 U 998 99 70 - 130 Gasoline Range Organics 1027 mg/Kg (GRO)-C6-C10 998 1176 Diesel Range Organics (Over <49.9 U mg/Kg 116 70 - 130 C10-C28)

MS MS

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	118	70 - 130
o-Terphenyl	108	70 - 130

Lab Sample ID: 880-26670-A-61-C MSD

QC Sample Results

Job ID: 890-4457-1 Client: Ensolum Project/Site: BEU 156 Fire SDG: 03C1558194

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

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 50425

Sample Sample Spike MSD MSD RPD Result Qualifier RPD Limit Analyte Added Result Qualifier Unit %Rec Limits D Gasoline Range Organics <49.9 U 997 1015 mg/Kg 98 70 - 130 20 (GRO)-C6-C10 997 Diesel Range Organics (Over <49.9 U 1136 mg/Kg 112 70 - 1303

C10-C28)

Matrix: Solid

Analysis Batch: 50572

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	115		70 - 130
o-Terphenyl	105		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-50506/1-A Client Sample ID: Method Blank

Matrix: Solid Prep Type: Soluble

Analysis Batch: 50741

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Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			04/09/23 15:01	1

Lab Sample ID: LCS 880-50506/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 50741

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	240.8		mg/Kg		96	90 - 110	 -

Lab Sample ID: LCSD 880-50506/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 50741

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	237.0		mg/Kg		95	90 - 110	2	20	

Lab Sample ID: 890-4457-1 MS **Client Sample ID: SS01 Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 50741

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	48.6		2/10	297.9		ma/Ka		100	90 110	

Lab Sample ID: 890-4457-1 MSD **Client Sample ID: SS01 Matrix: Solid Prep Type: Soluble**

Analysis Batch: 50741

Sample Sample Spike MSD MSD %Rec RPD Result Qualifier Added Result Qualifier RPD Limit Analyte %Rec Limits Unit 249 296.8 100 Chloride 48.6 90 - 110 mg/Kg

QC Association Summary

Client: Ensolum

Project/Site: BEU 156 Fire

Job ID: 890-4457-1 SDG: 03C1558194

GC VOA

Prep Batch: 50827

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-50827/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 50945

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4457-1	SS01	Total/NA	Solid	8021B	50990
890-4457-2	SS02	Total/NA	Solid	8021B	50990
890-4457-3	SS03	Total/NA	Solid	8021B	50990
890-4457-4	SS04	Total/NA	Solid	8021B	50990
MB 880-50827/5-A	Method Blank	Total/NA	Solid	8021B	50827
MB 880-50990/5-A	Method Blank	Total/NA	Solid	8021B	50990
LCS 880-50990/1-A	Lab Control Sample	Total/NA	Solid	8021B	50990
LCSD 880-50990/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	50990
880-27093-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	50990
880-27093-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	50990

Prep Batch: 50990

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4457-1	SS01	Total/NA	Solid	5035	_
890-4457-2	SS02	Total/NA	Solid	5035	
890-4457-3	SS03	Total/NA	Solid	5035	
890-4457-4	SS04	Total/NA	Solid	5035	
MB 880-50990/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-50990/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-50990/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-27093-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-27093-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 51028

Lab Sample ID 890-4457-1	Client Sample ID SS01	Prep Type Total/NA	Matrix Solid	Method Total BTEX	Prep Batch
890-4457-2	SS02	Total/NA	Solid	Total BTEX	
890-4457-3	SS03	Total/NA	Solid	Total BTEX	
890-4457-4	SS04	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 50425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4457-1	SS01	Total/NA	Solid	8015NM Prep	
890-4457-2	SS02	Total/NA	Solid	8015NM Prep	
890-4457-3	SS03	Total/NA	Solid	8015NM Prep	
890-4457-4	SS04	Total/NA	Solid	8015NM Prep	
MB 880-50425/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-50425/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-50425/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-26670-A-61-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-26670-A-61-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 50572

Released to Imaging: 2/18/2025 10:17:24 AM

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4457-1	SS01	Total/NA	Solid	8015B NM	50425

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QC Association Summary

 Client: Ensolum
 Job ID: 890-4457-1

 Project/Site: BEU 156 Fire
 SDG: 03C1558194

GC Semi VOA (Continued)

Analysis Batch: 50572 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4457-2	SS02	Total/NA	Solid	8015B NM	50425
890-4457-3	SS03	Total/NA	Solid	8015B NM	50425
890-4457-4	SS04	Total/NA	Solid	8015B NM	50425
MB 880-50425/1-A	Method Blank	Total/NA	Solid	8015B NM	50425
LCS 880-50425/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	50425
LCSD 880-50425/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	50425
880-26670-A-61-B MS	Matrix Spike	Total/NA	Solid	8015B NM	50425
880-26670-A-61-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	50425

Analysis Batch: 50763

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep Batch
890-4457-1	SS01	Total/NA	Solid	8015 NM
890-4457-2	SS02	Total/NA	Solid	8015 NM
890-4457-3	SS03	Total/NA	Solid	8015 NM
890-4457-4	SS04	Total/NA	Solid	8015 NM

HPLC/IC

Leach Batch: 50506

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4457-1	SS01	Soluble	Solid	DI Leach	
890-4457-2	SS02	Soluble	Solid	DI Leach	
890-4457-3	SS03	Soluble	Solid	DI Leach	
890-4457-4	SS04	Soluble	Solid	DI Leach	
MB 880-50506/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-50506/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-50506/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4457-1 MS	SS01	Soluble	Solid	DI Leach	
890-4457-1 MSD	SS01	Soluble	Solid	DI Leach	

Analysis Batch: 50741

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4457-1	SS01	Soluble	Solid	300.0	50506
890-4457-2	SS02	Soluble	Solid	300.0	50506
890-4457-3	SS03	Soluble	Solid	300.0	50506
890-4457-4	SS04	Soluble	Solid	300.0	50506
MB 880-50506/1-A	Method Blank	Soluble	Solid	300.0	50506
LCS 880-50506/2-A	Lab Control Sample	Soluble	Solid	300.0	50506
LCSD 880-50506/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	50506
890-4457-1 MS	SS01	Soluble	Solid	300.0	50506
890-4457-1 MSD	SS01	Soluble	Solid	300.0	50506

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Job ID: 890-4457-1 SDG: 03C1558194

Client Sample ID: SS01

Project/Site: BEU 156 Fire

Client: Ensolum

Lab Sample ID: 890-4457-1

Matrix: Solid

Date Collected: 04/03/23 11:55 Date Received: 04/03/23 16:09

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	50990	04/12/23 12:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50945	04/12/23 23:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51028	04/13/23 09:53	AJ	EET MID
Total/NA	Analysis	8015 NM		1			50763	04/09/23 22:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	50425	04/05/23 16:03	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50572	04/07/23 14:25	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	50506	04/06/23 10:48	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50741	04/09/23 15:15	SMC	EET MID

Client Sample ID: SS02 Lab Sample ID: 890-4457-2

Date Collected: 04/03/23 12:00 Date Received: 04/03/23 16:09

Matrix: Solid

Batch Dil Initial Final Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Prep 5035 Total/NA 5.03 g 5 mL 50990 04/12/23 12:13 MNR EET MID Total/NA 8021B 5 mL 04/12/23 23:45 **EET MID** Analysis 1 5 mL 50945 MNR Total/NA Total BTEX 51028 04/13/23 09:53 Analysis A.I **EET MID** 1 Total/NA Analysis 8015 NM 50763 04/09/23 22:35 SM **EET MID** Total/NA 50425 Prep 8015NM Prep 10.01 g 10 mL 04/05/23 16:03 ΑJ EET MID Total/NA Analysis 8015B NM 1 uL 1 uL 50572 04/07/23 14:47 SM **EET MID** Soluble 04/06/23 10:48 Leach DI Leach 5.05 g 50 mL 50506 KS **EET MID** Soluble Analysis 300.0 50 mL 50 mL 50741 04/09/23 15:28 SMC **EET MID**

Lab Sample ID: 890-4457-3 **Client Sample ID: SS03**

Date Collected: 04/03/23 12:05 **Matrix: Solid** Date Received: 04/03/23 16:09

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	50990	04/12/23 12:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50945	04/13/23 00:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51028	04/13/23 09:53	AJ	EET MID
Total/NA	Analysis	8015 NM		1			50763	04/09/23 22:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	50425	04/05/23 16:03	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50572	04/07/23 15:32	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	50506	04/06/23 10:48	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50741	04/09/23 15:33	SMC	EET MID

Lab Sample ID: 890-4457-4 **Client Sample ID: SS04** Date Collected: 04/03/23 12:10

Date Received: 04/03/23 16:09

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	50990	04/12/23 12:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50945	04/13/23 03:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51028	04/13/23 09:53	AJ	EET MID

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Matrix: Solid

Lab Chronicle

 Client: Ensolum
 Job ID: 890-4457-1

 Project/Site: BEU 156 Fire
 SDG: 03C1558194

Client Sample ID: SS04

Lab Sample ID: 890-4457-4

Matrix: Solid

Date Collected: 04/03/23 12:10 Date Received: 04/03/23 16:09

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			50763	04/09/23 22:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	50425	04/05/23 16:03	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50572	04/07/23 15:54	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	50506	04/06/23 10:48	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50741	04/09/23 15:37	SMC	EET MID

Laboratory References:

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

Accreditation/Certification Summary

 Client: Ensolum
 Job ID: 890-4457-1

 Project/Site: BEU 156 Fire
 SDG: 03C1558194

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Pr	ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-22-25	06-30-23
The following analytes	are included in this report, bu	It the laboratory is not certifi	ed by the governing authority. This list ma	av include analytes for
the agency does not of	fer certification.	•	, , ,	.,
the agency does not of Analysis Method	fer certification . Prep Method	Matrix	Analyte	-,
0 ,		Matrix Solid	Analyte Total TPH	

Method Summary

Client: Ensolum Job ID: 890-4457-1 Project/Site: BEU 156 Fire SDG: 03C1558194

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum

Project/Site: BEU 156 Fire

Job ID: 890-4457-1

SDG: 03C1558194

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4457-1	SS01	Solid	04/03/23 11:55	04/03/23 16:09	0.5'
890-4457-2	SS02	Solid	04/03/23 12:00	04/03/23 16:09	0.5'
890-4457-3	SS03	Solid	04/03/23 12:05	04/03/23 16:09	0.5'
890-4457-4	SS04	Solid	04/03/23 12:10	04/03/23 16:09	0.5'

121314

eurofins

City, State ZIP:

Company Name:

Ensolum

Tacoma Morrissey

Bill to: (if different) Company Name:

3122 National Parks Hwy Carlsbad, NM 88220

City, State ZIP:

Carlsbad, NM 88220

Deliverables: EDD

ADaPT

Other

Level IV

Reporting: Level II | Level III | PST/UST | TRRP |

Chain of Custody

Houston, TX (281) 240-4200. Dallas, TX (214) 902-0300 Midland, TX (432) 704-5440. San Antonio, TX (210) 509-333 EL Paso, TX (915) 585-3440 Hobbs, NM (575) 392-7550,

32) 704-5440, San Antonio, TX (210) 509-3334	Work Order No:
(915) 585-3443, Lubbock, TX (806) 794-1296	
75) 392-7550, Carlsbad, NM (575) 988-3199	
	www.xenco.com Page l of l
Garrett Green	Work Order Comments
XTO Energy	Program: UST/PST ☐ PRP☐ Brownfields ☐ RRC ☐ Superfund ☐
3104 E. Green St.	

	THE.	Relinquished by: (Signature)	Notice: Signature of this document and reli of service. Eurofins Xenco will be liable on of Eurofins Xenco. A minimum charge of \$	Circle Method(s) and Metal(s) to be analyzed	Total 200.7 / 6010 200.8				/	5000	5503	2025	1055	Sample Identification	Total Containers:	Sample Custody Seals: Yes	Cooler Custody Seals: Yes No.	Samples Received Intact: (Nes)	SAMPLE RECEIPT Tem	PO#.		Project Location:	er.	Project Name: Bl	Phone: 303-887-2946
7	Mrs. M.	Receiv	inquishment of samples con ily for the cost of samples ai 85.00 will be applied to eacl	be analyzed	200.8 / 6020:								5 4/3/23	Matrix Sampled	Corrected 1	No Nun Temperature Reading:	No. NIA Correction Factor.	No Thermometer ID:	Temp Blank: Yès No		Connor Whitman		03C1558194	BEU 156 Fire	16
000		Received by: (Signature)	stitutes a valid purchase ord nd shall not assume any resp n project and a charge of \$5 t	TCLP / SPLP 6010: 8RCRA	8RCRA 13PPM Tex				,	5. 013	5' 5071	1200 ,5	3 1155 .5	Time Depth	Corrected Temperature: 3	, .	actor.	er ID:	Wet ice: Yes	the lab, if received by 4:30pm	TAT starts the day received by	Due Date:	Routine Rush	Turn Around	Email: Garrett
0	4/3/23 15:53	Date/Time	er from client company to Eurofir onsibility for any losses or exper or each sample submitted to Eur	0: 8RCRA Sb As Ba Be	Texas 11 Al Sb As Ba Be	/							0 1/	Grab/ # of Comp Cont CHLC	-	S (E		aran	o nete	<u> </u>	eived by		Sh Code		Email: Garrett. Green@ExxonMobil.com
)	3 2	Relinquished by: (Signature)	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	Cd Cr Co Cu Pb Mn N	B Cd Ca Cr Co Cu Fe P									BTEX (890-4450									ANALYSIS REQUEST	
		Received by: (Signature)	ss standard terms and conditions circumstances beyond the control suffered unless previously negotiated.	lo Ni Se Ag Ti U Hg: 1631/245	b Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn			AFE		Cos			Inci		_		Na ₂ °	NaH	H ₃ P(H ₂ S(нсг	Cool	Non	1	Convergences. For []
	E.	Date/Time		Hg: 1631/245.1/7470/7471	TI Sn U V Zn				1138471001	Cost Center:		nAPP2306844555	ncident ID:	Sample Comments	NaOH+Ascorbic Acid: SAPC	Zn Acetate+NaOH: Zn	Na ₂ S ₂ O ₃ : NaSO ₃	NaHSO ₄ : NABIS	H ₃ PO ₄ : HP	H ₂ SO ₄ : H ₂ NaOH: Na		Cool: Cool MeOH: Me	None: NO DI Water: H ₂ O	Preservative Codes	Card

Revised Date: 08/25/2020 Rev 2020.2

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-4457-1 SDG Number: 03C1558194

Login Number: 4457 List Source: Eurofins Carlsbad

List Number: 1

Creator: Stutzman, Amanda

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

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-4457-1

SDG Number: 03C1558194

Login Number: 4457 **List Source: Eurofins Midland** List Number: 2

List Creation: 04/05/23 11:34 AM

Creator: Rodriguez, Leticia

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	N/A	

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<6mm (1/4").

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill

Ensolum

601 N. Marienfeld St.

Suite 400

Midland, Texas 79701

Generated 4/18/2023 2:48:28 PM

JOB DESCRIPTION

BEU 156 Fire SDG NUMBER 03C1558194

JOB NUMBER

890-4504-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

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

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

Authorization

Generated 4/18/2023 2:48:28 PM

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

Client: Ensolum
Project/Site: BEU 156 Fire
Laboratory Job ID: 890-4504-1
SDG: 03C1558194

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Definitions/Glossary

Job ID: 890-4504-1 Client: Ensolum Project/Site: BEU 156 Fire SDG: 03C1558194

Qualifiers

GC VOA Qualifier

LCS and/or LCSD is outside acceptance limits, low biased. U Indicates the analyte was analyzed for but not detected.

Qualifier Description

GC Semi VOA

Qualifier **Qualifier Description**

S1-Surrogate recovery exceeds control limits, low biased. U Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description**

MS and/or MSD recovery exceeds control limits. U Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery CFL Contains Free Liquid CFU Colony Forming Unit **CNF** Contains No Free Liquid

DFR 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

Decision Level Concentration (Radiochemistry) DLC

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

EPA recommended "Maximum Contaminant Level" MCL MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

Method Detection Limit MDL 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

Toxicity Equivalent Factor (Dioxin) TEF Toxicity Equivalent Quotient (Dioxin) TEQ

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TNTC Too Numerous To Count

Case Narrative

Job ID: 890-4504-1 Client: Ensolum

Project/Site: BEU 156 Fire SDG: 03C1558194

Job ID: 890-4504-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4504-1

Receipt

The sample was received on 4/12/2023 2:11 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.8°C

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: FS01 (890-4504-1).

GC VOA

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-51145 and analytical batch 880-51138 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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

GC Semi VOA

Method 8015MOD NM: Surrogate recovery for the following sample was outside control limits: (890-4507-A-9-B). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: FS01 (890-4504-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

HPLC/IC

Method 300 ORGFM 28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-51314 and analytical batch 880-51407 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.FS01 (890-4504-1), (880-27147-A-1-B), (880-27147-A-1-C MS) and (880-27147-A-1-D MSD)

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

Matrix: Solid

Lab Sample ID: 890-4504-1

Client Sample Results

 Client: Ensolum
 Job ID: 890-4504-1

 Project/Site: BEU 156 Fire
 SDG: 03C1558194

Client Sample ID: FS01

Date Collected: 04/12/23 12:20 Date Received: 04/12/23 14:11

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/14/23 09:33	04/14/23 20:39	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/14/23 09:33	04/14/23 20:39	1
Ethylbenzene	<0.00200	U *-	0.00200	mg/Kg		04/14/23 09:33	04/14/23 20:39	1
m-Xylene & p-Xylene	<0.00399	U *-	0.00399	mg/Kg		04/14/23 09:33	04/14/23 20:39	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/14/23 09:33	04/14/23 20:39	1
Xylenes, Total	<0.00399	U *-	0.00399	mg/Kg		04/14/23 09:33	04/14/23 20:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130			04/14/23 09:33	04/14/23 20:39	1
1,4-Difluorobenzene (Surr)	102		70 - 130			04/14/23 09:33	04/14/23 20:39	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			04/16/23 10:56	
Thethod: SW846 8015 NM - Diese		ics (DRO) (GC)					
Analyte	Result	ics (DRO) (C	GC)	Unit	<u>D</u>	Prepared	Analyzed	
		ics (DRO) (C	GC)		<u>D</u>	Prepared		Dil Fac
Analyte Total TPH	Result <49.8	ics (DRO) (Gualifier	RL 49.8	Unit	<u>D</u>	Prepared	Analyzed	
Analyte Total TPH	Result <49.8	ics (DRO) (Gualifier	RL 49.8	Unit	D_	Prepared Prepared	Analyzed	1
Analyte Total TPH Method: SW846 8015B NM - Dies	Result <49.8	ics (DRO) (Qualifier U nics (DRO) Qualifier	RL 49.8 (GC)	Unit mg/Kg		<u> </u>	Analyzed 04/17/23 09:43	1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	Result <49.8 sel Range Orga Result	ics (DRO) ((Qualifier U nics (DRO) Qualifier U	(GC) RL RL	Unit mg/Kg		Prepared	Analyzed 04/17/23 09:43 Analyzed	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.8 sel Range Orga Result <49.8	ics (DRO) ((Qualifier U nics (DRO) Qualifier U	(GC) RL 49.8 (GC) RL 49.8	Unit mg/Kg Unit mg/Kg		Prepared 04/14/23 12:00	Analyzed 04/17/23 09:43 Analyzed 04/15/23 17:53	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.8	ics (DRO) ((Qualifier U nics (DRO) Qualifier U U	(GC) RL 49.8 (GC) RL 49.8 49.8	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 04/14/23 12:00 04/14/23 12:00	Analyzed 04/17/23 09:43 Analyzed 04/15/23 17:53 04/15/23 17:53	1 Dil Fac 1 1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.8	ics (DRO) ((Qualifier U nics (DRO) Qualifier U U	GC) RL 49.8 (GC) RL 49.8 49.8 49.8	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 04/14/23 12:00 04/14/23 12:00 04/14/23 12:00	Analyzed 04/17/23 09:43 Analyzed 04/15/23 17:53 04/15/23 17:53	Dil Fac 1 1 Dil Fac Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result <49.8	Control of the contro	GC) RL 49.8 (GC) RL 49.8 49.8 49.8 Limits	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 04/14/23 12:00 04/14/23 12:00 04/14/23 12:00 Prepared	Analyzed 04/17/23 09:43 Analyzed 04/15/23 17:53 04/15/23 17:53 Analyzed	Dil Fac 1 1 Dil Fac 1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <49.8	ics (DRO) ((Qualifier U nics (DRO) Qualifier U U Qualifier S1- S1-	GC) RL 49.8 (GC) RL 49.8 49.8 49.8 49.8 Limits 70 - 130 70 - 130	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 04/14/23 12:00 04/14/23 12:00 04/14/23 12:00 Prepared 04/14/23 12:00	Analyzed 04/17/23 09:43 Analyzed 04/15/23 17:53 04/15/23 17:53 Analyzed 04/15/23 17:53	Dil Fac 1 1 Dil Fac Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result <49.8	ics (DRO) ((Qualifier U nics (DRO) Qualifier U U Qualifier S1- S1-	GC) RL 49.8 (GC) RL 49.8 49.8 49.8 49.8 Limits 70 - 130 70 - 130	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 04/14/23 12:00 04/14/23 12:00 04/14/23 12:00 Prepared 04/14/23 12:00	Analyzed 04/17/23 09:43 Analyzed 04/15/23 17:53 04/15/23 17:53 Analyzed 04/15/23 17:53	1 1 1 Dil Fac 1

Surrogate Summary

Client: Ensolum Job ID: 890-4504-1 Project/Site: BEU 156 Fire SDG: 03C1558194

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-27162-A-1-B MS	Matrix Spike	104	108	
880-27162-A-1-C MSD	Matrix Spike Duplicate	103	106	
890-4504-1	FS01	103	102	
LCS 880-51145/1-A	Lab Control Sample	101	106	
LCSD 880-51145/2-A	Lab Control Sample Dup	100	111	
MB 880-51145/5-A	Method Blank	93	100	
Surrogate Legend				

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

Matrix: Solid Prep Type: Total/NA

		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-4504-1	FS01	59 S1-	60 S1-
890-4507-A-9-C MS	Matrix Spike	77	71
890-4507-A-9-D MSD	Matrix Spike Duplicate	78	73
LCS 880-51185/2-A	Lab Control Sample	78	80
LCSD 880-51185/3-A	Lab Control Sample Dup	77	79
MB 880-51185/1-A	Method Blank	96	106

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum Job ID: 890-4504-1 Project/Site: BEU 156 Fire SDG: 03C1558194

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-51145/5-A

Lab Sample ID: LCS 880-51145/1-A

Matrix: Solid Analysis Batch: 51138

Xylenes, Total

Matrix: Solid

Analysis Batch: 51138

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 51145

MB	MB						
Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
<0.00200	U	0.00200	mg/Kg		04/14/23 09:33	04/14/23 12:53	1
<0.00200	U	0.00200	mg/Kg		04/14/23 09:33	04/14/23 12:53	1
<0.00200	U	0.00200	mg/Kg		04/14/23 09:33	04/14/23 12:53	1
<0.00400	U	0.00400	mg/Kg		04/14/23 09:33	04/14/23 12:53	1
<0.00200	U	0.00200	mg/Kg		04/14/23 09:33	04/14/23 12:53	1
	Result <0.00200 <0.00200 <0.00200 <0.00200 <0.00400	MB MB Result Qualifier	Result Qualifier RL <0.00200	Result Qualifier RL Unit <0.00200	Result Qualifier RL Unit D <0.00200	Result Qualifier RL Unit D Prepared <0.00200	Result Qualifier RL Unit D Prepared Analyzed <0.00200

mg/Kg

MB MB

<0.00400 U

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	04/14/23 09:33	04/14/23 12:53	1
1,4-Difluorobenzene (Surr)	100		70 - 130	04/14/23 09:33	04/14/23 12:53	1

0.00400

Client Sample ID: Lab Control Sample

04/14/23 12:53

04/14/23 09:33

Prep Type: Total/NA

Prep Batch: 51145

Prep Type: Total/NA

Prep Batch: 51145

Spike LCS LCS Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.07915 mg/Kg 79 70 - 130 Toluene 0.100 0.07582 mg/Kg 76 70 - 130 0.100 0.06842 *-68 Ethylbenzene mg/Kg 70 - 130 0.200 0.1359 *-68 70 - 130 m-Xylene & p-Xylene mg/Kg 0.100 0.07189 70 - 130 o-Xylene mg/Kg 72

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	101	70 - 130
1,4-Difluorobenzene (Surr)	106	70 - 130

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 51138

Lab Sample ID: LCSD 880-51145/2-A

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1083		mg/Kg		108	70 - 130	31	35
Toluene	0.100	0.1065		mg/Kg		106	70 - 130	34	35
Ethylbenzene	0.100	0.09740		mg/Kg		97	70 - 130	35	35
m-Xylene & p-Xylene	0.200	0.1940		mg/Kg		97	70 - 130	35	35
o-Xylene	0.100	0.09725		mg/Kg		97	70 - 130	30	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1.4-Difluorobenzene (Surr)	111		70 - 130

Lab Sample ID: 880-27162-A-1-B MS

Matrix: Solid

Analysis Batch: 51138

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

Prep Batch: 51145

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U	0.0998	0.09697		mg/Kg	_	97	70 - 130	
Toluene	<0.00200	U	0.0998	0.09182		mg/Kg		92	70 - 130	

Eurofins Carlsbad

1

QC Sample Results

Client: Ensolum Job ID: 890-4504-1 Project/Site: BEU 156 Fire SDG: 03C1558194

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

Matrix: Solid

Matrix: Solid

o-Xylene

Analysis Batch: 51138

.ab Sample ID: 880-27162-A-1-B MS	Client Sample ID: Matrix Spike
Astriv: Colid	Prop Type: Total/NA

Prep Type: Total/NA Prep Batch: 51145

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00200	U *-	0.0998	0.08473		mg/Kg		85	70 - 130	
m-Xylene & p-Xylene	<0.00401	U *-	0.200	0.1666		mg/Kg		83	70 - 130	
o-Xylene	<0.00200	U	0.0998	0.08298		mg/Kg		83	70 - 130	

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	104	70 - 130
1,4-Difluorobenzene (Surr)	108	70 - 130

Client Sample ID: Matrix Spike Duplicate

70 - 130

75

mg/Kg

Prep Type: Total/NA

Prep Batch: 51145

10

Analysis Batch: 51138 Sample Sample Spike MSD MSD RPD Result Qualifier Added Result Qualifier RPD Limit Analyte Unit %Rec Limits 0.100 Benzene <0.00200 U 0.08679 mg/Kg 86 70 - 130 11 35 Toluene <0.00200 U 0.100 0.08457 mg/Kg 84 70 - 130 8 35 0.07596 Ethylbenzene <0.00200 U *-0.100 76 70 - 130 11 35 mg/Kg <0.00401 U*-0.201 0.1492 74 70 - 130 35 m-Xylene & p-Xylene mg/Kg 11

0.07529

0.100

MSD MSD

<0.00200 U

Surrogate	%Recovery Qualifie	er Limits
4-Bromofluorobenzene (Surr)	103	70 - 130
1,4-Difluorobenzene (Surr)	106	70 - 130

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

Lab Sample ID: MB 880-51185/1-A

Lab Sample ID: 880-27162-A-1-C MSD

Matrix: Solid

Analysis Batch: 51243

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 51185

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		04/14/23 12:00	04/15/23 09:44	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/14/23 12:00	04/15/23 09:44	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/14/23 12:00	04/15/23 09:44	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130	04/14/23 12:00	04/15/23 09:44	1
o-Terphenyl	106		70 - 130	04/14/23 12:00	04/15/23 09:44	1

Lab Sample ID: LCS 880-51185/2-A

Matrix: Solid

Analysis Batch: 51243

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

Prep Batch: 51185

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	966.5		mg/Kg		97	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1008		mg/Kg		101	70 - 130	
C10-C28)								

Job ID: 890-4504-1

Client: Ensolum Project/Site: BEU 156 Fire SDG: 03C1558194

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

LCS LCS

Lab Sample ID: LCS 880-51185/2-A **Client Sample ID: Lab Control Sample**

Matrix: Solid

Analysis Batch: 51243

Prep Type: Total/NA

Prep Batch: 51185

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 78 70 - 130 o-Terphenyl 80 70 - 130

Lab Sample ID: LCSD 880-51185/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 51243

Prep Type: Total/NA

Prep Batch: 51185 RPD

Spike LCSD LCSD %Rec Analyte Added Result Qualifier Unit D %Rec Limits **RPD** Limit 1000 880.8 88 70 - 1309 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 936.6 94 mg/Kg 70 - 13020 C10-C28)

LCSD LCSD

Surrogate %Recovery Qualifier Limits 70 - 130 1-Chlorooctane 77 79 70 - 130 o-Terphenyl

Lab Sample ID: 890-4507-A-9-C MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 51243

Prep Type: Total/NA

Prep Batch: 51185

Sample Sample MS MS Spike Added Analyte Result Qualifier Result Qualifier Unit D %Rec Limits Gasoline Range Organics <50.0 U 997 1061 mg/Kg 105 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 997 903.2 mg/Kg 86 70 - 130 C10-C28)

MS MS %Recovery Qualifier Surrogate Limits 70 - 130 1-Chlorooctane 77 o-Terphenyl 71 70 - 130

Lab Sample ID: 890-4507-A-9-D MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Solid**

Analysis Batch: 51243

Prep Type: Total/NA

Prep Batch: 51185

Sample Sample MSD MSD RPD Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit U 1000 1069 105 Gasoline Range Organics <50.0 70 - 130 20 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 1000 936.2 mg/Kg 89 70 - 130 20 C10-C28)

MSD MSD %Recovery Qualifier Surrogate Limits 1-Chlorooctane 78 70 - 130 73 70 - 130 o-Terphenyl

QC Sample Results

Job ID: 890-4504-1 Client: Ensolum Project/Site: BEU 156 Fire

SDG: 03C1558194

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-51314/1-A

Lab Sample ID: LCS 880-51314/2-A

Matrix: Solid

Analysis Batch: 51407

Client Sample ID: Method Blank **Prep Type: Soluble**

мв мв Dil Fac Analyte Result Qualifier RL Unit D Prepared Analyzed Chloride <5.00 U 5.00 mg/Kg 04/17/23 16:29

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Prep Type: Soluble

Analysis Batch: 51407

Matrix: Solid

Spike LCS LCS %Rec Added %Rec Analyte Result Qualifier Unit D Limits Chloride 250 234.3 mg/Kg 94 90 - 110

Lab Sample ID: LCSD 880-51314/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid Prep Type: Soluble

Analysis Batch: 51407

LCSD LCSD %Rec RPD Spike Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 241.5 mg/Kg 90 - 110

Lab Sample ID: 880-27147-A-1-C MS Client Sample ID: Matrix Spike **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 51407

Spike MS MS Sample Sample %Rec Analyte Result Qualifier Added Result Qualifier %Rec Unit Limits 252 Chloride 142 F1 354.7 F1 85 90 - 110 mg/Kg

Lab Sample ID: 880-27147-A-1-D MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 51407

Sample Sample Spike MSD MSD %Rec RPD Added Analyte Result Qualifier Result Qualifier Unit %Rec Limits RPD Limit Chloride 142 F1 252 363.2 F1 mg/Kg 88 90 - 110 20

QC Association Summary

 Client: Ensolum
 Job ID: 890-4504-1

 Project/Site: BEU 156 Fire
 SDG: 03C1558194

GC VOA

Analysis Batch: 51138

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4504-1	FS01	Total/NA	Solid	8021B	51145
MB 880-51145/5-A	Method Blank	Total/NA	Solid	8021B	51145
LCS 880-51145/1-A	Lab Control Sample	Total/NA	Solid	8021B	51145
LCSD 880-51145/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	51145
880-27162-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	51145
880-27162-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	51145

Prep Batch: 51145

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4504-1	FS01	Total/NA	Solid	5035	
MB 880-51145/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-51145/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-51145/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-27162-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
880-27162-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 51250

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4504-1	FS01	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 51185

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4504-1	FS01	Total/NA	Solid	8015NM Prep	
MB 880-51185/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-51185/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-51185/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4507-A-9-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-4507-A-9-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 51243

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4504-1	FS01	Total/NA	Solid	8015B NM	51185
MB 880-51185/1-A	Method Blank	Total/NA	Solid	8015B NM	51185
LCS 880-51185/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	51185
LCSD 880-51185/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	51185
890-4507-A-9-C MS	Matrix Spike	Total/NA	Solid	8015B NM	51185
890-4507-A-9-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	51185

Analysis Batch: 51303

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4504-1	FS01	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 51314

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4504-1	FS01	Soluble	Solid	DI Leach	
MB 880-51314/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-51314/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-51314/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

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Page 12 of 20

QC Association Summary

 Client: Ensolum
 Job ID: 890-4504-1

 Project/Site: BEU 156 Fire
 SDG: 03C1558194

HPLC/IC (Continued)

Leach Batch: 51314 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27147-A-1-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-27147-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 51407

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4504-1	FS01	Soluble	Solid	300.0	51314
MB 880-51314/1-A	Method Blank	Soluble	Solid	300.0	51314
LCS 880-51314/2-A	Lab Control Sample	Soluble	Solid	300.0	51314
LCSD 880-51314/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	51314
880-27147-A-1-C MS	Matrix Spike	Soluble	Solid	300.0	51314
880-27147-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	51314

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Lab Chronicle

 Client: Ensolum
 Job ID: 890-4504-1

 Project/Site: BEU 156 Fire
 SDG: 03C1558194

Client Sample ID: FS01

1 Lab Sample ID: 890-4504-1

Matrix: Solid

Date Collected: 04/12/23 12:20 Date Received: 04/12/23 14:11

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	51145	04/14/23 09:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51138	04/14/23 20:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51250	04/16/23 10:56	AJ	EET MID
Total/NA	Analysis	8015 NM		1			51303	04/17/23 09:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	51185	04/14/23 12:00	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51243	04/15/23 17:53	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	51314	04/17/23 12:16	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	51407	04/17/23 17:01	SMC	EET MID

Laboratory References:

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

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Accreditation/Certification Summary

 Client: Ensolum
 Job ID: 890-4504-1

 Project/Site: BEU 156 Fire
 SDG: 03C1558194

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Pr	ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-22-25	06-30-23
The following analytes	are included in this report, bu	It the laboratory is not certifi	ed by the governing authority. This list ma	av include analytes for
the agency does not of	fer certification.	•	, , ,	.,
the agency does not of Analysis Method	fer certification . Prep Method	Matrix	Analyte	-,
0 ,		Matrix Solid	Analyte Total TPH	

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Method Summary

Client: Ensolum Job ID: 890-4504-1 Project/Site: BEU 156 Fire SDG: 03C1558194

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum

Project/Site: BEU 156 Fire

Job ID: 890-4504-1

SDG: 03C1558194

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4504-1	FS01	Solid	04/12/23 12:20	04/12/23 14:11	0.5'

eurofins

Xenco

Environment Testing

City, State ZIP:

3122 National Parks Hwy Carlsbad, NM 88220

City, State ZIP:

Carlsbad, NM 88220

Company Name:

Ben Belill Ensolum, LLC

Bill to: (if different)

Garrett Green

Company Name

XTO Energy 3104 E. Green St 2

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Chain of Custody TX (281) 240-4200, Dallas, TX (214) 902-

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

Work Order No:

www.xenco.com Page of
Work Order Comments
rogram: UST/PST ☐ PRP☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV☐
Deliverables: EDD ADaPT Other:

Phone: 989-8	989-854-0852		Email: G	arrett.Green(2)EXX	OMMO	OII.CO	JIII, GIII	Email: Garrett Green@ExxonMobil.com, dilikalibiov@elisoidili.com		
Project Name:	BEU 156 Fire	ге	Turn Around	ound					ANALYSIS REQUEST	Pro	Preservative Codes
Project Number:	03C1558194		Routine [Rush	Code					None: NO	IO DI Water: H ₂ O
Project Location:	Eddy County, NM		Due Date:						-	Cool: Cool	
Sampler's Name:	Dmitry Nikanorov		TAT starts the day received by	ay received by						HCL: HC	
PO#:			the lab, if received by 4:30pm	ed by 4:30pm	rs					H ₂ S0 ₄ : H ₂	H ₂ NaOH: Na
SAMPLE RECEIPT	Temp Blank:	Yes No	Wet Ice:	Wes No	nete	0)				H₃PO₄: HP	품
Samples Received Intact:	Yes No	Thermometer ID:	9	N-08-1	aran	300.				NaHSO,	NaHSO ₄ : NABIS
	NA STATE OF THE PROPERTY OF TH	Correction Factor:	or:	E.0.	Pa	PA: :			890-4504 Chain of Control		Na ₂ S ₂ O ₃ : NaSO ₃
	NO NA	Temperature Reading	eading:	2.5		(EI			A COOL		Zn Acetate+NaOH: Zn
Total Containers:		Corrected Temperature:	perature:	3.8		IDES	15)	3021		NaOH+	NaOH+Ascorbic Acid: SAPC
Sample Identification	ion Matrix	Date Sampled	Time D	Depth Grab/	# of Cont	CHLOR	TPH (80	BTEX (8		Sa	Sample Comments
FS01	S	4/12/2023	12:20 0.5	5' Comp	_	×	×	×		2	INCIDENT #: nAPP2306844555
										Cost	Cost Center: 1138471001
Total 200.7 / 6010	200.8 / 6020:	8RCRA		13PPM Texas 11	Al Sb	As	Ва	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	I Sn ∪ V Zn
Me	tal(s) to be analy:	zed	TCLP / SPLP 6010: 8RCRA	6010: 8RC		Sb A	s Ba	Be C	Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se	Ni Se Ag TI U Hg: 1631/245.1/7470/747	7470 / 7471
Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors.	nt and relinquishment o	of samples constitut	tes a valid purcha	se order from cli	ent con	npany t	o Euro	fins Xeno		It assigns standard terms and conditions to due to circumstances beyond the control	
Eurofins Xenco. A minimum ch	harge of \$85.00 will be	applied to each pro	ject and a charge	of \$5 for each s	ample s	ubmitte	d to Eu	urofins X	of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously regulated.	orced unless previously negonalied.	
Relinquished by: (Signature)	nature)	Received I	Received by: (Signature)	e)		Date	Date/Time	9	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Janing.	D	- frem	26 C	d	4/12/23	2/2	23	14/1/2			
	0					1					

Revised Date 08/25/2020 Rev 2020 2

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-4504-1 SDG Number: 03C1558194

Login Number: 4504 List Source: Eurofins Carlsbad

List Number: 1

Creator: Stutzman, Amanda

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

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-4504-1 SDG Number: 03C1558194

List Source: Eurofins Midland

Login Number: 4504 List Number: 2 List Creation: 04/14/23 10:11 AM Creator: Rodriguez, Leticia

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	



APPENDIX D

NMOCD Notifications

Collins, Melanie

From: Green, Garrett J

Sent: Saturday, March 4, 2023 1:13 PM

To: Enviro, OCD, EMNRD; Bratcher, Michael, EMNRD; Harimon, Jocelyn, EMNRD; Hamlet,

Robert, EMNRD

Cc: DelawareSpills /SM

Subject: XTO 24 Hour Notification - BEU 156

All,

This is notification of a fire that occurred yesterday at the BEU 156 near the GPS coordinates given below. No injuries were reported and the fire extinguished itself. Details will be provided with a form C-141. Please contact us with any questions or concerns.

GPS: 32.412365,-104.064009

Thank you,

Garrett Green

Environmental Coordinator
Delaware Business Unit
(575) 200-0729
Garrett.Green@ExxonMobil.com

XTO Energy, Inc.

3104 E. Greene Street | Carlsbad, NM 88220 | M: (575)200-0729

From: <u>Green, Garrett J</u>

To: Enviro, OCD, EMNRD; Bratcher, Michael, EMNRD; Hamlet, Robert, EMNRD; Harimon, Jocelyn, EMNRD

Cc: <u>DelawareSpills /SM; Tacoma Morrissey</u>

Subject: XTO - Sampling Notification (Week of 4/10/23 - 4/14/23)

Date: Thursday, April 6, 2023 10:35:58 AM

[**EXTERNAL EMAIL**]

All,

XTO plans to complete final sampling activities at the sites listed below for the week of April 10, 2023.

Wednesday

- PLU CVX JV 018H / NAB1705937661
- JRU 17 CTB/ nAPP2226628060
- BEU 156 Fire / nAPP2304448906

Thursday

- PLU CVX JV 018H / NAB1705937661
- JRU 17 CTB/ nAPP2226628060
- PLU 387H / NMAP1823448856

Friday

- PLU 387H / NMAP1823448856

Thank you,

Garrett Green

Environmental Coordinator
Delaware Business Unit
(575) 200-0729

Garrett.Green@ExxonMobil.com

XTO Energy, Inc.

3104 E. Greene Street | Carlsbad, NM 88220 | M: (575)200-0729



APPENDIX B

Photographic Log



Photographic Log

XTO Energy, Inc.
Big Eddy Unit 156
Incident Number NAPP2306844555



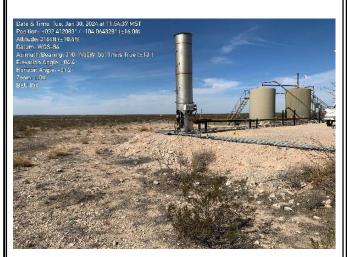


Photograph: 1 Date: 1/30/2024 Description: Site conditions during sampling activities

View: Southwest

Photograph: 2 Date: 1/30/2024 Description: Site conditions during sampling activities

View: Southeast





Photograph: 3 Date: 1/30/2024 Description: Site conditions during sampling activities

View: Northwest

Photograph: 4 Date: 1/30/2024
Description: Site conditions during sampling activities

View: Southeast



APPENDIX C

Laboratory Analytical Reports & Chain of Custody Documentation

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill

Ensolum

601 N. Marienfeld St.

Suite 400

Midland, Texas 79701

Generated 2/23/2024 5:36:46 PM Revision 1

JOB DESCRIPTION

BEU 156 FIRE 03C1558194

JOB NUMBER

890-6069-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

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

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

Authorization

Generated 2/23/2024 5:36:46 PM Revision 1

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

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

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Client: Ensolum

Project/Site: BEU 156 FIRE

Laboratory Job ID: 890-6069-1

SDG: 03C1558194

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Qualifier Description

Definitions/Glossary

Client: Ensolum Job ID: 890-6069-1 Project/Site: BEU 156 FIRE

SDG: 03C1558194

Qualifiers

GC VC	Α
Qualifie	r

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

GC Semi VOA

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

HPLC/IC

Quaimer	Quaimer Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

DLC

Giossary	
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

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

Decision Level Concentration (Radiochemistry)

MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit

ND Not Detected a	at the reporting lin	mit (or MDL or EDL if shown)
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NEG	Negative / Absent
POS	Positive / Present
POL	Practical Quantitation

PQL Practical Qua	antitation Limit
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PRES	Presumptive
QC	Quality Control

RPD	Relative Percent Difference, a measure of the relative difference between two poin	ıts
-----	------------------------------------------------------------------------------------	-----

TEF Toxicity Equivalent Factor (Dioxin) TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum Job ID: 890-6069-1

Project: BEU 156 FIRE

Job ID: 890-6069-1 Eurofins Carlsbad

Job Narrative 890-6069-1

REVISION

The report being provided is a revision of the original report sent on 2/12/2024. The report (revision 1) is being revised due to Per client email, requesting chlorde re run.

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 1/30/2024 12:41 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.6°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SW 01 (890-6069-1), SS 05 (890-6069-2), SS 06 (890-6069-3), SS 07 (890-6069-4) and SS 08 (890-6069-5).

GC VOA

Method 8021B: The matrix spike (MS) recoveries for preparation batch 880-72744 and 880-72744 and analytical batch 880-72754 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-72602 and analytical batch 880-72754 was outside the upper control limits.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-72754 recovered under the lower control limit for o-Xylene. The samples associated with this CCV were ran within 12 hours of passing CCV; therefore, the data have been reported.

Method 8021B: Surrogate recovery for the following sample was outside control limits: SS 08 (890-6069-5). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-72744 and analytical batch 880-72754 was outside the upper control limits.

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

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-72344 and analytical batch 880-72614 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: SS 05 (890-6069-2) and SS 08 (890-6069-5). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-72344 and analytical batch 880-72614 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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Case Narrative

Client: Ensolum

Job ID: 890-6069-1

Project: BEU 156 FIRE

Job ID: 890-6069-1 (Continued)

Eurofins Carlsbad

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

HPLC/IC

Method 300_ORGFM_28D - Soluble: The matrix spike (MS) recoveries for preparation batch 880-73369 and analytical batch 880-73374 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

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Job ID: 890-6069-1

Client: Ensolum Project/Site: BEU 156 FIRE SDG: 03C1558194

Da Date Received: 01/30/24 12:41

Sample Depth: 0 - 0.5

Client Sample ID: SW 01	Lab Sample ID: 890-6069-1
Date Collected: 01/30/24 10:15	Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/09/24 11:55	02/10/24 20:10	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/09/24 11:55	02/10/24 20:10	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/09/24 11:55	02/10/24 20:10	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		02/09/24 11:55	02/10/24 20:10	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/09/24 11:55	02/10/24 20:10	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		02/09/24 11:55	02/10/24 20:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130			02/09/24 11:55	02/10/24 20:10	1
1,4-Difluorobenzene (Surr)	101		70 - 130			02/09/24 11:55	02/10/24 20:10	1

Method: TAL SOP Total BTEX - Total BTEX Calculation									
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Total BTEX	<0.00399	U	0.00399	mg/Kg			02/10/24 20:10	1

Method: SW846 8015 NM - Dies	el Range (Organics (D	RO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1	mg/Kg			02/08/24 16:53	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1	mg/Kg		02/05/24 10:17	02/08/24 16:53	1	
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1	mg/Kg		02/05/24 10:17	02/08/24 16:53	1	
Oll Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg		02/05/24 10:17	02/08/24 16:53	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1-Chlorooctane	100		70 - 130			02/05/24 10:17	02/08/24 16:53		

Method: EPA 300.0 - Anions, I	on Chromatography - S	Soluble					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	69.2	4 96	ma/Ka			02/05/24 00:51	1

70 - 130

Lab Sample ID: 890-6069-2 Client Sample ID: SS 05 Date Collected: 01/30/24 10:45 **Matrix: Solid**

Date Received: 01/30/24 12:41

Sample Depth: 0.5

o-Terphenyl

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		02/09/24 11:55	02/10/24 20:31	1
Toluene	<0.00201	U	0.00201	mg/Kg		02/09/24 11:55	02/10/24 20:31	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		02/09/24 11:55	02/10/24 20:31	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		02/09/24 11:55	02/10/24 20:31	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		02/09/24 11:55	02/10/24 20:31	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		02/09/24 11:55	02/10/24 20:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			02/09/24 11:55	02/10/24 20:31	1

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02/05/24 10:17 02/08/24 16:53

Job ID: 890-6069-1 SDG: 03C1558194

Client Sample ID: SS 05 Lab Sample ID: 890-6069-2

Date Collected: 01/30/24 10:45 **Matrix: Solid** Date Received: 01/30/24 12:41

Sample Depth: 0.5

Client: Ensolum

Project/Site: BEU 156 FIRE

) (Continued)

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	102	70 - 130	02/09/24 11:55	02/10/24 20:31	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			02/10/24 20:31	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5	mg/Kg			02/08/24 17:15	1

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

method: Offo-to-to-to-to-	ricoci italige	, Organico	(Dito) (GG)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5	mg/Kg		02/05/24 10:17	02/08/24 17:15	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5	mg/Kg		02/05/24 10:17	02/08/24 17:15	1
Oll Range Organics (Over C28-C36)	<50.5	U	50.5	mg/Kg		02/05/24 10:17	02/08/24 17:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	68	S1-	70 - 130	02/05/24 10:17	02/08/24 17:15	1
o-Terphenyl	66	S1-	70 - 130	02/05/24 10:17	02/08/24 17:15	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	88.4	5.01	mg/Kg	_		02/05/24 01:06	1

Lab Sample ID: 890-6069-3 Client Sample ID: SS 06 Matrix: Solid

Date Collected: 01/30/24 10:50 Date Received: 01/30/24 12:41

Sample Depth: 0.5

Mothod: CIMOAC 9024D	Volatila Organia	c Compounds	(CC)

Method: 5W846 8U21B - VC	Diatile Organic	Compound	as (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/09/24 11:55	02/10/24 20:51	1
Toluene	< 0.00200	U	0.00200	mg/Kg		02/09/24 11:55	02/10/24 20:51	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/09/24 11:55	02/10/24 20:51	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		02/09/24 11:55	02/10/24 20:51	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/09/24 11:55	02/10/24 20:51	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		02/09/24 11:55	02/10/24 20:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130			02/09/24 11:55	02/10/24 20:51	1
1,4-Difluorobenzene (Surr)	100		70 - 130			02/09/24 11:55	02/10/24 20:51	1

4-DIOIIIOIIUOIODEIIZEIIE (SUII)	107	10 - 130	02/09/24 11.33 02/10/24 20.31	ı
1,4-Difluorobenzene (Surr)	100	70 - 130	02/09/24 11:55 02/10/24 20:51	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			02/10/24 20:51	1

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

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8 U	49.8	mg/Kg			02/08/24 17:37	1

Job ID: 890-6069-1 SDG: 03C1558194

Project/Site: BEU 156 FIRE **Client Sample ID: SS 06**

Lab Sample ID: 890-6069-3

Date Collected: 01/30/24 10:50 Date Received: 01/30/24 12:41

Matrix: Solid

Sample Depth: 0.5

Client: Ensolum

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		02/05/24 10:17	02/08/24 17:37	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		02/05/24 10:17	02/08/24 17:37	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		02/05/24 10:17	02/08/24 17:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130			02/05/24 10:17	02/08/24 17:37	1
o-Terphenyl	82		70 - 130			02/05/24 10:17	02/08/24 17:37	1
Method: EPA 300.0 - Anions,	Ion Chroma	tography -	Soluble					
•	Danult	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	Result	Qualifier	KL	Ollit		riepaieu	Allalyzeu	Diriac

Lab Sample ID: 890-6069-4 Client Sample ID: SS 07 Date Collected: 01/30/24 10:55

Matrix: Solid

Date Received: 01/30/24 12:41

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		02/09/24 11:55	02/10/24 23:43	1
Toluene	< 0.00199	U	0.00199	mg/Kg		02/09/24 11:55	02/10/24 23:43	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		02/09/24 11:55	02/10/24 23:43	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		02/09/24 11:55	02/10/24 23:43	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		02/09/24 11:55	02/10/24 23:43	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		02/09/24 11:55	02/10/24 23:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130			02/09/24 11:55	02/10/24 23:43	1
1,4-Difluorobenzene (Surr)	115		70 - 130			02/09/24 11:55	02/10/24 23:43	1
Method: TAL SOP Total BT	EX - Total BTE	X Calculat	ion					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			02/10/24 23:43	1
Method: SW846 8015 NM -	Diesel Range	Organics (DRO) (GC)					

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6	mg/Kg			02/08/24 17:59	1
Method: SW846 8015B NM - D	iesel Range	organics	(DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6	mg/Kg		02/05/24 10:17	02/08/24 17:59	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6	mg/Kg		02/05/24 10:17	02/08/24 17:59	1
Oll Range Organics (Over C28-C36)	<49.6	U	49.6	mg/Kg		02/05/24 10:17	02/08/24 17:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130			02/05/24 10:17	02/08/24 17:59	1
o-Terphenyl	87		70 - 130			02/05/24 10:17	02/08/24 17:59	1

Job ID: 890-6069-1

Client: Ensolum
Project/Site: BEU 156 FIRE

SDG: 03C1558194

Client Sample ID: SS 07

Lab Sample ID: 890-6069-4

Date Collected: 01/30/24 10:55
Date Received: 01/30/24 12:41

Matrix: Solid

Sample Depth: 0.5

Method: EPA 300.0 - Anions, Id	on Chromat	ography -	Soluble					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	214		5.00	mg/Kg			02/05/24 01:16	1

Client Sample ID: SS 08 Lab Sample ID: 890-6069-5

Date Collected: 01/30/24 11:00 Matrix: Solid

Date Received: 01/30/24 12:41

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		02/09/24 11:55	02/11/24 00:03	1
Toluene	<0.00199	U	0.00199	mg/Kg		02/09/24 11:55	02/11/24 00:03	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		02/09/24 11:55	02/11/24 00:03	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		02/09/24 11:55	02/11/24 00:03	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		02/09/24 11:55	02/11/24 00:03	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		02/09/24 11:55	02/11/24 00:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	65	S1-	70 - 130			02/09/24 11:55	02/11/24 00:03	1
1,4-Difluorobenzene (Surr)	118		70 - 130			02/09/24 11:55	02/11/24 00:03	1

Method: IAL SUP Total BTEX	- lotal BIE	x Calculat	ion					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg	_		02/11/24 00:03	1
_								

Method: SW846 8015 NM - Die	sel Range (Organics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6	mg/Kg			02/08/24 18:21	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6	mg/Kg		02/05/24 10:17	02/08/24 18:21	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6	mg/Kg		02/05/24 10:17	02/08/24 18:21	1
Oll Range Organics (Over C28-C36)	<49.6	U	49.6	mg/Kg		02/05/24 10:17	02/08/24 18:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	62	S1-	70 - 130			02/05/24 10:17	02/08/24 18:21	1
o-Terphenyl	58	S1-	70 - 130			02/05/24 10:17	02/08/24 18:21	1

Method: EPA 300.0 - Anions, I	on Chromatograp	hy - Soluble					
Analyte	Result Qualific	er RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	230	4.95	mg/Kg			02/05/24 01:21	1

Surrogate Summary

 Client: Ensolum
 Job ID: 890-6069-1

 Project/Site: BEU 156 FIRE
 SDG: 03C1558194

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

_			Per	cent Surrogate Red
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-6069-1	SW 01	109	101	
890-6069-2	SS 05	114	102	
890-6069-3	SS 06	107	100	
890-6069-4	SS 07	102	115	
890-6069-5	SS 08	65 S1-	118	
890-6070-A-1-E MS	Matrix Spike	102	107	
890-6070-A-1-F MSD	Matrix Spike Duplicate	98	107	
LCS 880-72744/1-A	Lab Control Sample	91	104	
LCSD 880-72744/2-A	Lab Control Sample Dup	91	104	
MB 880-72602/5-A	Method Blank	131 S1+	135 S1+	
MB 880-72744/5-A	Method Blank	129	147 S1+	
Surrogate Legend BFB = 4-Bromofluorobe	enzene (Surr)			

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

			Percent	Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-6069-1	SW 01	100	98	
890-6069-2	SS 05	68 S1-	66 S1-	
890-6069-3	SS 06	80	82	
890-6069-4	SS 07	83	87	
890-6069-5	SS 08	62 S1-	58 S1-	
890-6087-A-1-E MS	Matrix Spike	89	88	
890-6087-A-1-F MSD	Matrix Spike Duplicate	87	85	
LCS 880-72344/2-A	Lab Control Sample	99	104	
LCSD 880-72344/3-A	Lab Control Sample Dup	95	100	
MB 880-72344/1-A	Method Blank	145 S1+	168 S1+	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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Job ID: 890-6069-1 Client: Ensolum Project/Site: BEU 156 FIRE SDG: 03C1558194

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-72602/5-A

Matrix: Solid

Matrix: Solid

Analysis Batch: 72754

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 72602

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/07/24 16:55	02/10/24 04:16	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/07/24 16:55	02/10/24 04:16	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/07/24 16:55	02/10/24 04:16	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		02/07/24 16:55	02/10/24 04:16	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/07/24 16:55	02/10/24 04:16	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/07/24 16:55	02/10/24 04:16	1

MB MB

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130
1,4-Difluorobenzene (Surr)	135	S1+	70 - 130

02/07/24 16:55 02/10/24 04:16 02/07/24 16:55 02/10/24 04:16

Analyzed

Prepared

Lab Sample ID: MB 880-72744/5-A **Client Sample ID: Method Blank**

> **Prep Type: Total/NA** Prep Batch: 72744

Analysis Batch: 72754

MR MR

	IVID	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/09/24 11:55	02/10/24 15:52	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/09/24 11:55	02/10/24 15:52	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/09/24 11:55	02/10/24 15:52	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		02/09/24 11:55	02/10/24 15:52	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/09/24 11:55	02/10/24 15:52	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/09/24 11:55	02/10/24 15:52	1

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129	70 - 130	02/09/24 11:55	02/10/24 15:52	1
1,4-Difluorobenzene (Surr)	147 S1+	70 - 130	02/09/24 11:55	02/10/24 15:52	1

Lab Sample ID: LCS 880-72744/1-A

Matrix: Solid

Analysis Batch: 72754

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 72744

Spike	LCS	LCS				%Rec	
Added	Result	Qualifier	Unit	D	%Rec	Limits	
0.100	0.09301		mg/Kg		93	70 - 130	
0.100	0.09073		mg/Kg		91	70 - 130	
0.100	0.07919		mg/Kg		79	70 - 130	
0.200	0.1829		mg/Kg		91	70 - 130	
0.100	0.08163		mg/Kg		82	70 - 130	
	0.100 0.100 0.100 0.200	Added Result 0.100 0.09301 0.100 0.09073 0.100 0.07919 0.200 0.1829	Added Result Qualifier 0.100 0.09301 0.100 0.09073 0.100 0.07919 0.200 0.1829	Added Result Qualifier Unit 0.100 0.09301 mg/Kg 0.100 0.09073 mg/Kg 0.100 0.07919 mg/Kg 0.200 0.1829 mg/Kg	Added Result Qualifier Unit D 0.100 0.09301 mg/Kg 0.100 0.09073 mg/Kg 0.100 0.07919 mg/Kg 0.200 0.1829 mg/Kg	Added Result Qualifier Unit D %Rec 0.100 0.09301 mg/Kg 93 0.100 0.09073 mg/Kg 91 0.100 0.07919 mg/Kg 79 0.200 0.1829 mg/Kg 91	Added Result Qualifier Unit D %Rec Limits 0.100 0.09301 mg/Kg 93 70 - 130 0.100 0.09073 mg/Kg 91 70 - 130 0.100 0.07919 mg/Kg 79 70 - 130 0.200 0.1829 mg/Kg 91 70 - 130

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	91	70 - 130
1,4-Difluorobenzene (Surr)	104	70 - 130

Lab Sample ID: LCSD 880-72744/2-A

Matrix: Solid

Analyte Benzene

Analysis Batch: 72754

	Pre					Prep Ty	rep Type: Total/NA			
						Prep E	atch:	72744		
Spike	LCSD	LCSD				%Rec		RPD		
Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit		
0.100	0.09990		ma/Ka		100	70 - 130	7	35		

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Dil Fac

QC Sample Results

Client: Ensolum Job ID: 890-6069-1 Project/Site: BEU 156 FIRE SDG: 03C1558194

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

Lab Sample ID: LCSD 880-72744/2-A

Matrix: Solid

Analysis Batch: 72754

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 72744

LCSD LCSD **RPD** Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Toluene 0 100 0.09304 mg/Kg 93 70 - 130 3 35 Ethylbenzene 0.100 0.07982 mg/Kg 80 70 - 130 35 0.200 0.1903 95 70 - 130 35 m-Xylene & p-Xylene mg/Kg 4 0.100 87 35 o-Xylene 0.08694 mg/Kg 70 - 130

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	91		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: 890-6070-A-1-E MS **Client Sample ID: Matrix Spike**

Matrix: Solid

Analysis Batch: 72754

Prep Type: Total/NA

Prep Batch: 72744

Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier D %Rec Limits Analyte Unit Benzene <0.00200 U F1 0.0996 0.05147 F1 52 70 - 130 mg/Kg Toluene <0.00200 U F2 F1 0.0996 0.03423 F1 mg/Kg 34 70 - 130 Ethylbenzene <0.00200 UF1 0.0996 0.02831 F1 mq/Kq 28 70 - 130 0.199 0.07212 F1 36 70 - 130 m-Xylene & p-Xylene <0.00399 U F1 mg/Kg o-Xylene <0.00200 UF1 0.0996 0.03375 F1 mg/Kg 34 70 - 130

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	102	70 - 130
1,4-Difluorobenzene (Surr)	107	70 - 130

Lab Sample ID: 890-6070-A-1-F MSD

Matrix: Solid

Analysis Batch: 72754

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 72744

Spike MSD MSD %Rec **RPD** Sample Sample Result Qualifier Analyte Added Result Qualifier Unit D %Rec Limits **RPD** Limit Benzene <0.00200 U F1 0.0990 0.06780 F1 mg/Kg 68 70 - 130 27 35 Toluene <0.00200 U F2 F1 0.0990 0.05148 F2 F1 mg/Kg 52 70 - 130 40 35 Ethylbenzene <0.00200 UF1 0.0990 0.03587 F1 mg/Kg 36 70 - 130 24 35 0.198 0.08732 F1 70 - 130 35 m-Xylene & p-Xylene <0.00399 UF1 mg/Kg 44 19 70 - 130 o-Xylene <0.00200 UF1 0.0990 0.03805 F1 38 12 35 mq/Kq

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

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

Lab Sample ID: MB 880-72344/1-A

Matrix: Solid

Analysis Batch: 72614

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

Prep Batch: 72344

MB MB Result Qualifier RL Unit Analyte Prepared Analyzed Dil Fac Gasoline Range Organics <50.0 U 50.0 mg/Kg 02/05/24 10:17 02/08/24 07:47

(GRO)-C6-C10

QC Sample Results

Client: Ensolum Job ID: 890-6069-1 Project/Site: BEU 156 FIRE SDG: 03C1558194

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

168 S1+

Lab Sample ID: MB 880-72344/1-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA Prep Batch: 72344

Analysis Batch: 72614

o-Terphenyl

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/05/24 10:17	02/08/24 07:47	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/05/24 10:17	02/08/24 07:47	1
	МВ	MB						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	145	S1+	70 - 130			02/05/24 10:17	02/08/24 07:47	1

Lab Sample ID: LCS 880-72344/2-A **Client Sample ID: Lab Control Sample Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 72614** Prep Batch: 72344 LCS LCS Spike %Rec

70 - 130

Added Result Qualifier Limits Analyte Unit %Rec Gasoline Range Organics 1000 946.1 mg/Kg 95 70 - 130 (GRO)-C6-C10 mg/Kg Diesel Range Organics (Over 1000 919.5 92 70 - 130 C10-C28)

LCS LCS Surrogate %Recovery Qualifier Limits 70 - 130 1-Chlorooctane 99 70 - 130 o-Terphenyl 104

Lab Sample ID: LCSD 880-72344/3-A Client Sample ID: Lab Control Sample Dup Matrix: Solid Prep Type: Total/NA

Analysis Batch: 72614

Prep Batch: 72344 Spike LCSD LCSD %Rec **RPD Analyte** Added Result Qualifier Unit D %Rec Limits RPD Limit Gasoline Range Organics 1000 813.5 mg/Kg 81 70 - 130 15 20 (GRO)-C6-C10 70 - 130 Diesel Range Organics (Over 1000 883.9 mg/Kg 88 4 20 C10-C28)

LCSD LCSD %Recovery Qualifier Surrogate Limits 1-Chlorooctane 95 70 - 130 o-Terphenyl 100 70 - 130

Lab Sample ID: 890-6087-A-1-E MS **Client Sample ID: Matrix Spike Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 72614 Prep Batch: 72344

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	1010	1052		mg/Kg		100	70 - 130	
Diesel Range Organics (Over C10-C28)	<49.8	U F1	1010	693.6	F1	mg/Kg		66	70 - 130	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	89		70 - 130
o-Terphenyl	88		70 - 130

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02/05/24 10:17 02/08/24 07:47

2/23/2024 (Rev. 1)

Client: Ensolum Job ID: 890-6069-1 Project/Site: BEU 156 FIRE SDG: 03C1558194

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

Client Sample ID: Matrix Spike Duplicate Lab Sample ID: 890-6087-A-1-F MSD

Matrix: Solid

Prep Type: Total/NA **Analysis Batch: 72614** Prep Batch: 72344

Sample Sample Spike MSD MSD %Rec **RPD** Result Qualifier Result Qualifier Added %Rec Limits RPD Limit Analyte Unit Gasoline Range Organics <49.8 U 1010 1089 mg/Kg 104 70 - 130 3 20 (GRO)-C6-C10 Diesel Range Organics (Over 1010 674.4 F1 64 <49.8 UF1 mg/Kg 70 - 1303 20

C10-C28)

MSD MSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 70 - 130 87 85 70 - 130 o-Terphenyl

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-72012/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 72286

MB MB Result Qualifier RL Unit Analyte Prepared Analyzed Dil Fac 5.00 Chloride <5.00 U mg/Kg 02/05/24 00:36

Lab Sample ID: LCS 880-72012/2-A **Client Sample ID: Lab Control Sample Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 72286

Spike LCS LCS %Rec Analyte Added Result Qualifier Limits Unit D %Rec Chloride 250 244.5 98 90 - 110 mg/Kg

Lab Sample ID: LCSD 880-72012/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 72286

LCSD LCSD RPD Spike %Rec **Analyte** Added Result Qualifier Unit D %Rec Limits **RPD** Limit Chloride 250 245.1 mg/Kg 98 90 - 110 0

Lab Sample ID: 890-6069-1 MS Client Sample ID: SW 01

Matrix: Solid

Analysis Batch: 72286

MS MS Sample Sample Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chloride 69.2 248 292.7 mg/Kg 90 - 110

Lab Sample ID: 890-6069-1 MSD Client Sample ID: SW 01 **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 72286

MSD MSD %Rec **RPD** Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit 248 69.2 292.3 90 90 - 110 Chloride mg/Kg 0

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Prep Type: Soluble

QC Sample Results

Client: Ensolum Job ID: 890-6069-1 Project/Site: BEU 156 FIRE SDG: 03C1558194

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 880-73369/1-A

Lab Sample ID: LCS 880-73369/2-A

Client Sample ID: Method Blank

Prep Type: Soluble

Analysis Batch: 73374

Matrix: Solid

Matrix: Solid

MB MB

Analyte Result Qualifier RL Unit D Analyzed Dil Fac Prepared 5.00 02/16/24 13:08 Chloride <5.00 U mg/Kg

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Prep Type: Soluble

Analysis Batch: 73374

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits Chloride 250 90 - 110 234.9 mg/Kg 94

Lab Sample ID: LCSD 880-73369/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid**

Prep Type: Soluble

Client Sample ID: Matrix Spike Duplicate

Analysis Batch: 73374

Spike LCSD LCSD %Rec RPD Added Result Qualifier Limits **RPD** Limit **Analyte** Unit %Rec Chloride 250 236.1 94 90 - 110 20 mg/Kg

Lab Sample ID: 880-39509-A-2-B MS **Client Sample ID: Matrix Spike Matrix: Solid Prep Type: Soluble**

Analysis Batch: 73374

Spike MS MS %Rec Sample Sample Added Analyte Result Qualifier Result Qualifier Unit %Rec Limits Chloride 702 F1 251 923.3 F1 mg/Kg 88 90 - 110

Lab Sample ID: 880-39509-A-2-C MSD

Matrix: Solid

Analysis Batch: 73374

MSD MSD RPD Sample Sample Spike %Rec Analyte Result Qualifier Added Unit Limits Result Qualifier %Rec **RPD** Limit Chloride 702 F1 251 928.9 91 20 mg/Kg 90 - 110

QC Association Summary

Client: Ensolum

Project/Site: BEU 156 FIRE

Job ID: 890-6069-1 SDG: 03C1558194

GC VOA

Prep Batch: 72602

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-72602/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 72744

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6069-1	SW 01	Total/NA	Solid	5035	
890-6069-2	SS 05	Total/NA	Solid	5035	
890-6069-3	SS 06	Total/NA	Solid	5035	
890-6069-4	SS 07	Total/NA	Solid	5035	
890-6069-5	SS 08	Total/NA	Solid	5035	
MB 880-72744/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-72744/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-72744/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-6070-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
890-6070-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 72754

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6069-1	SW 01	Total/NA	Solid	8021B	72744
890-6069-2	SS 05	Total/NA	Solid	8021B	72744
890-6069-3	SS 06	Total/NA	Solid	8021B	72744
890-6069-4	SS 07	Total/NA	Solid	8021B	72744
890-6069-5	SS 08	Total/NA	Solid	8021B	72744
MB 880-72602/5-A	Method Blank	Total/NA	Solid	8021B	72602
MB 880-72744/5-A	Method Blank	Total/NA	Solid	8021B	72744
LCS 880-72744/1-A	Lab Control Sample	Total/NA	Solid	8021B	72744
LCSD 880-72744/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	72744
890-6070-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	72744
890-6070-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	72744

Analysis Batch: 72862

Lab Sample ID 890-6069-1	Client Sample ID SW 01	Prep Type Total/NA	Matrix Solid	Method Total BTEX	Prep Batch
890-6069-2	SS 05	Total/NA	Solid	Total BTEX	
890-6069-3	SS 06	Total/NA	Solid	Total BTEX	
890-6069-4	SS 07	Total/NA	Solid	Total BTEX	
890-6069-5	SS 08	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 72344

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6069-1	SW 01	Total/NA	Solid	8015NM Prep	
890-6069-2	SS 05	Total/NA	Solid	8015NM Prep	
890-6069-3	SS 06	Total/NA	Solid	8015NM Prep	
890-6069-4	SS 07	Total/NA	Solid	8015NM Prep	
890-6069-5	SS 08	Total/NA	Solid	8015NM Prep	
MB 880-72344/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-72344/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-72344/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-6087-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-6087-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

QC Association Summary

Job ID: 890-6069-1 Client: Ensolum Project/Site: BEU 156 FIRE SDG: 03C1558194

GC Semi VOA

Analysis Batch: 72614

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6069-1	SW 01	Total/NA	Solid	8015B NM	72344
890-6069-2	SS 05	Total/NA	Solid	8015B NM	72344
890-6069-3	SS 06	Total/NA	Solid	8015B NM	72344
890-6069-4	SS 07	Total/NA	Solid	8015B NM	72344
890-6069-5	SS 08	Total/NA	Solid	8015B NM	72344
MB 880-72344/1-A	Method Blank	Total/NA	Solid	8015B NM	72344
LCS 880-72344/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	72344
LCSD 880-72344/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	72344
890-6087-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	72344
890-6087-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	72344

Analysis Batch: 72773

Lab Sample ID 890-6069-1	Client Sample ID SW 01	Prep Type Total/NA	Matrix Solid	Method 8015 NM	Prep Batch
890-6069-2	SS 05	Total/NA	Solid	8015 NM	
890-6069-3	SS 06	Total/NA	Solid	8015 NM	
890-6069-4	SS 07	Total/NA	Solid	8015 NM	
890-6069-5	SS 08	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 72012

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6069-1	SW 01	Soluble	Solid	DI Leach	
890-6069-2	SS 05	Soluble	Solid	DI Leach	
890-6069-3	SS 06	Soluble	Solid	DI Leach	
890-6069-4	SS 07	Soluble	Solid	DI Leach	
890-6069-5	SS 08	Soluble	Solid	DI Leach	
MB 880-72012/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-72012/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-72012/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-6069-1 MS	SW 01	Soluble	Solid	DI Leach	
890-6069-1 MSD	SW 01	Soluble	Solid	DI Leach	

Analysis Batch: 72286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6069-1	SW 01	Soluble	Solid	300.0	72012
890-6069-2	SS 05	Soluble	Solid	300.0	72012
890-6069-3	SS 06	Soluble	Solid	300.0	72012
890-6069-4	SS 07	Soluble	Solid	300.0	72012
890-6069-5	SS 08	Soluble	Solid	300.0	72012
MB 880-72012/1-A	Method Blank	Soluble	Solid	300.0	72012
LCS 880-72012/2-A	Lab Control Sample	Soluble	Solid	300.0	72012
LCSD 880-72012/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	72012
890-6069-1 MS	SW 01	Soluble	Solid	300.0	72012
890-6069-1 MSD	SW 01	Soluble	Solid	300.0	72012

Leach Batch: 73369

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-73369/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-73369/2-A	Lab Control Sample	Soluble	Solid	DI Leach	

QC Association Summary

 Client: Ensolum
 Job ID: 890-6069-1

 Project/Site: BEU 156 FIRE
 SDG: 03C1558194

HPLC/IC (Continued)

Leach Batch: 73369 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-73369/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-39509-A-2-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-39509-A-2-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 73374

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-73369/1-A	Method Blank	Soluble	Solid	300.0	73369
LCS 880-73369/2-A	Lab Control Sample	Soluble	Solid	300.0	73369
LCSD 880-73369/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	73369
880-39509-A-2-B MS	Matrix Spike	Soluble	Solid	300.0	73369
880-39509-A-2-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	73369

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Client Sample ID: SW 01

Project/Site: BEU 156 FIRE

Client: Ensolum

Date Collected: 01/30/24 10:15 Date Received: 01/30/24 12:41

Lab Sample ID: 890-6069-1

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	72744	02/09/24 11:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72754	02/10/24 20:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72862	02/10/24 20:10	SM	EET MID
Total/NA	Analysis	8015 NM		1			72773	02/08/24 16:53	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	72344	02/05/24 10:17	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72614	02/08/24 16:53	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	72012	01/31/24 10:17	SMC	EET MID
Soluble	Analysis	300.0		1	0 mL	1.0 mL	72286	02/05/24 00:51	CH	EET MID

Client Sample ID: SS 05 Lab Sample ID: 890-6069-2 Date Collected: 01/30/24 10:45

Date Received: 01/30/24 12:41

Matrix: Solid

Batch Batch Dil Initial Final Batch Prepared Method **Prep Type** Type Run **Factor Amount** Amount Number or Analyzed **Analyst** Lab Total/NA 5035 72744 02/09/24 11:55 MNR EET MID Prep 4.97 g 5 mL 8021B Total/NA 5 mL 72754 **EET MID** Analysis 5 mL 02/10/24 20:31 MNR 1 Total/NA Total BTEX Analysis 72862 02/10/24 20:31 SM **EET MID** 1 Total/NA 8015 NM **EET MID** Analysis 1 72773 02/08/24 17:15 SM Total/NA Prep 8015NM Prep 9.91 g 10 mL 72344 02/05/24 10:17 TKC **EET MID** Total/NA 8015B NM 72614 02/08/24 17:15 SM Analysis 1 uL 1 uL **EET MID** Soluble 72012 01/31/24 10:17 SMC Leach DI Leach 4.99 g 50 mL **EET MID** 300.0 02/05/24 01:06 CH Soluble Analysis 1 0 mL 1.0 mL 72286 **EET MID**

Client Sample ID: SS 06 Lab Sample ID: 890-6069-3 Date Collected: 01/30/24 10:50 Matrix: Solid

Date Received: 01/30/24 12:41

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035	_		4.99 g	5 mL	72744	02/09/24 11:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72754	02/10/24 20:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72862	02/10/24 20:51	SM	EET MID
Total/NA	Analysis	8015 NM		1			72773	02/08/24 17:37	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	72344	02/05/24 10:17	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72614	02/08/24 17:37	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	72012	01/31/24 10:17	SMC	EET MID
Soluble	Analysis	300.0		1	0 mL	1.0 mL	72286	02/05/24 01:11	CH	EET MID

Client Sample ID: SS 07 Lab Sample ID: 890-6069-4 Date Collected: 01/30/24 10:55 Matrix: Solid

Date Received: 01/30/24 12:41

	Batch	Batch	_	Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	72744	02/09/24 11:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72754	02/10/24 23:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72862	02/10/24 23:43	SM	EET MID

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Lab Chronicle

 Client: Ensolum
 Job ID: 890-6069-1

 Project/Site: BEU 156 FIRE
 SDG: 03C1558194

Client Sample ID: SS 07

Date Collected: 01/30/24 10:55 Date Received: 01/30/24 12:41 Lab Sample ID: 890-6069-4

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			72773	02/08/24 17:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	72344	02/05/24 10:17	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72614	02/08/24 17:59	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	72012	01/31/24 10:17	SMC	EET MID
Soluble	Analysis	300.0		1	0 mL	1.0 mL	72286	02/05/24 01:16	CH	EET MID

Client Sample ID: SS 08

Date Collected: 01/30/24 11:00

Lab Sample ID: 890-6069-5

Matrix: Solid

Date Collected: 01/30/24 11:00 Date Received: 01/30/24 12:41

Prep Type	Batch	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
	Type		_ Kuii	Factor						_
Total/NA	Prep	5035			5.03 g	5 mL	72744	02/09/24 11:55	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72754	02/11/24 00:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72862	02/11/24 00:03	SM	EET MID
Total/NA	Analysis	8015 NM		1			72773	02/08/24 18:21	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	72344	02/05/24 10:17	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72614	02/08/24 18:21	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	72012	01/31/24 10:17	SMC	EET MID
Soluble	Analysis	300.0		1	0 mL	1.0 mL	72286	02/05/24 01:21	CH	EET MID

Laboratory References:

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

Eurofins Carlsbad

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Accreditation/Certification Summary

 Client: Ensolum
 Job ID: 890-6069-1

 Project/Site: BEU 156 FIRE
 SDG: 03C1558194

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Progra	am	Identification Number	Expiration Date
Texas	NELA	ס	T104704400-23-26	06-30-24
I he tollowing analyte	s are included in this reno	rt hut the laboratory is r	not certified by the governing authori	ity. This list may includ
,	•	•	not certified by the governing authori	ity. This list may includ
for which the agency	does not offer certification		, , ,	ity. This list may includ
for which the agency Analysis Method	•	Matrix	Analyte	ity. This list may includ
for which the agency	does not offer certification		, , ,	ity. This list may includ

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Method Summary

Client: Ensolum

Project/Site: BEU 156 FIRE

Job ID: 890-6069-1 SDG: 03C1558194

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

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Sample Summary

Client: Ensolum

Project/Site: BEU 156 FIRE

Job ID: 890-6069-1

SDG: 03C1558194

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-6069-1	SW 01	Solid	01/30/24 10:15	01/30/24 12:41	0 - 0.5
890-6069-2	SS 05	Solid	01/30/24 10:45	01/30/24 12:41	0.5
890-6069-3	SS 06	Solid	01/30/24 10:50	01/30/24 12:41	0.5
890-6069-4	SS 07	Solid	01/30/24 10:55	01/30/24 12:41	0.5
890-6069-5	SS 08	Solid	01/30/24 11:00	01/30/24 12:41	0.5

Project Manager Ben Benil		eurofins E	nviron	Environment Testing	ting	Σ	Houston, TX	hain X (281) 24 432) 704-5	of C 0-4200, Dal 440, San Ar	Chain of Custody Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Ideand TX (432) 704-5440 San Anthonic TX (210)		Another Control	3	
own Page ownfields RRC S ownfields RRC S PST/UST TRRP Other: Preservative of None: NO DI V Cool: Cool None: NO DI V Cool: Cool None: NO DI V HySO4: HP NaHSO4: NABIS NaS-S-O3: NASO3 Zn Acetates-NaOH: Zr NaOH+Ascorbic Acid Sample Comm Incident ID: nAPP23068446 Cost Center: AFE: AS TII Sn U V Zn V255.1/7470 / 7471		*	enco				EL Paso, T	X (915) 585	-3443, Lubb	ock. TX (806) 794-1296		DIO VIOA	NO.	
PST/UST TRRP SPT/UST TRRP SPO4: HP NAHSO4: NASO3 Zh. Acetale±NAOH: Zh. Acetale±NAOH							Hobbs, NN	(575) 392-	7550, Carlst	ad, NM (575) 988-3199	909			-
PST/UST TRRP Descryative None: NO DIV Cool: Cool Met HCL: HC HNN H2S04: H2 NaCA+ASCOPIC Acid NACA+ASCOPIC Acid NACA+ASCOPIC Acid NACA+ASCOPIC Acid NACA+ASCOPIC Acid NACA+ASCOPIC Acid Sample Comm Incident ID: nAPP23068445 Cost Center: 113847100 AFE: Assumption of the Naca Naca Naca Naca Naca Naca Naca Nac		Belill				Bill to: (if dif	ferent)	Garrett	Green				rder Comment	
PST/UST TRRP DIVER: Preservative (None: NO DIV Cool: Cool Met H2,804: H2 NaHSO4: NASO3 Zn Acetate±NAOH: Zr NACHTASCOTDIC Acid Comm NaPP2306844; NAOH+Ascordic Acid Sample Comm NaPP2306844; NAOH+Ascordic Acid Sample Comm NaPP2306844; Cost Center: 113847100 AFE: As Sr TI Sn U V Zn V Zn V		olum				Company P	lame:	XTO En	ergy		Program	: UST/PST PRP	Brownfields	RRC Superfund
PST/UST TRRP Other: Preservative of None: NO DI V Cool: Cool Med HCL: HC HNA H2SQ4: H2 NadHSQ4: NABIS Na2S2O3: NASO3, Zn Acetate+NaOH: Zr NaOH+Ascorbic Acid Sample Comm Incident ID: Incident ID:	100	2 National	Parks H	wy		Address:		3104 E.	Green St.		State of	Project:		anning Towns
Preservative None: NO DIV None: NO DIV Cool: Cool Met HCL: HC HNN H ₂ S0 ₄ : H ₂ NaCl H ₃ PO ₄ : HP NaHSO ₄ : NaSO ₃ Zn Acetate±NaOH: Zr NaOH+Ascorbic Acid: Sample Comm Incident ID: nAPP2306844 Cost Center: 113847100 AFE: As Sr TI Sn U V Zn		Isbad, NM	88220			City, State	ZIP:	Carlsba	d, NM 8823	0.	Reportin	g: Level II Level III	□ PST/UST	
Preservatii None: NO Cooi: Cooi H ₂ So ₄ : H ₂ H ₃ PO ₄ : HP NaHSO ₄ : NASO ₃ Zn Acetate±NaOH NaOH+Ascorbic A Sample Co Incident ID: nAPP23006 Cost Center: 113847: AFE:		-887-2946			Email:	Garrett.Gr	een@Ex	xonMobil	.com		Deliveral	oles: EDD	ADaPT C	
None: NO Cool: Cool HCL: HC H ₂ SO ₄ : H ₂ H ₃ PO ₄ : HP NaHSO ₄ : NABIS NaPS ₂ O ₃ : NASO ₃ Zn Acetate+NaOH NaOH+Ascorbic A Sample Co Incident ID: nAPP23066 AFE: 113847' AFE: AFE:	Project Name:	BEU	156 FIF	₹E	Tur	Around 1				ANALYS	IS REQUEST		Pres	ervative Codes
Coot Cool HCL: HC H ₂ SO ₄ : H ₂ H ₃ PO ₄ : HP NaHSO ₄ : NaSO ₃ Zn Acetale+NaOH NaOH+Ascorbic A Sample Co Incident ID: nAPP23066 AFE: AFE: AFE: AFE: A8 Sr TI Sn U V	Project Number:	030	155819	4	✓ Routine		Pres						None: NO	DI Water: H-O
HCL.: HC H ₂ SQ ₄ : H ₂ H ₃ PQ ₄ : HP NaHSO ₄ : NaSO ₃ Zn Acetate+NaOH NaOH+Ascorbic A Sample Co Incident ID: nAPP23066 Cost Center: 113847: AFE:	Project Location:				Due Date:								Joog Joog	MoOH: Mo
H-SO4: H2 NaHSO4: HP NaHSO4: NASO3 Zn Acetate+NaOH NaOH+Ascorbic A Sample Co Incident ID: nAPP2308i Cost Center: 113847 AFE: AFE: AFE: A25.1/7470 / 74	Sampler's Name:	Connc	or Whitn	nan	TAT starts th	e day received	d by						HCL: HC	HNO.: HN
H ₃ PO ₄ : HP NaHSO ₄ : NABIS Na ₂ S ₂ O ₃ : NaSO ₃ Zn Acetate±NaOH NaOH+Ascorbic A Sample Co Incident ID: nAPP2308i Cost Center: 113847: AFE: Na Sr TI Sn U V	PO#.				the lab, if rec	Served by 4:30	-						H ₂ S0 ₄ : H ₂	NaOH: Na
	SAMPLE RECEIPT	Temp.B		(Yes)No	Wet loe:	- 1		(0.					H,PO,: HP	
	Samples Received Intact:	2	200	Thermometer		THIND	0	0008				I	NaHSO.: N	ABIS
2 2	Cooler Custody Seals:	Yes No	W	Correction Fac	ctor.	らら	34	: : A					Na.S.O.	PSO-
a	Sample Custody Seals:	Yes No.	NA	Temperature I	Reading:	00		43)					Zn Acetate	+NaOH: Zn
a	Total Containers:			Sorrected Ten	nperature:	2							NaOH+Asc	orbic Acid: SAPC
AFE: AFE: AFE: AFE: A8 Sr / 245.1	Sample Identificat		Matrix	Date	Time	100	ab/ # of	רסצו						
Inciden Cost Cc AFE: AFE: Na Sr TI	Chial		1	Sampled	Sampled		mp Cont	- сн	+				Samp	ole Comments
AFE: AFE: Na Sr TI	2000		N-	1/30/24	5/2/		+		-				Incident ID);
AFE: AFE: Na Sr TI	2500		+		C 601	+	5						nAi	PP2306844555
AFE: AFE: AFE: AFE: Aa Sr TI \$	9055				10.50	5.								
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Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr TI 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 TI U Hg: 1631 / 245 / 17470 / 7471														
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			1										i	
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/245.1/7470/	Total 200.7 / 6010	200.8 / 60	:020:			W Texas 1	1 AI Sk	As Ba	Be B Co	Ca Cr Co Cu Fe	Pb Mg Mn M	Ni K Se Ag SiO	2 Na Sr TI Sn	U V Zn
	Circle Metrod(s) and Met	rai(s) to be	analyze	D	TCLP / SP	LP 6010: £	RCRA	Sb As B	a Be Cd	Cr Co Cu Pb Mr	Mo Ni Se Ag	TI U Hg: 16	31/245.1/747	-
	Relinquished by: (Sign	nature)	C	Received	by: (Signatu	re)		Date/Tim	9	Relinquished by: (5	Signature)	Received by: (Sign	nature)	Date/Time
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Relinquished by: (Signature) Received by: (Signature) Date/Time Relinquished by: (Signature) Date/Time	3								4					
ure)	2								φ					

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-6069-1

SDG Number: 03C1558194

Login Number: 6069 List Source: Eurofins Carlsbad

List Number: 1

Creator: Bruns, Shannon

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

Eurofins Carlsbad

Released to Imaging: 2/18/2025 10:17:24 AM

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Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-6069-1 SDG Number: 03C1558194

Login Number: 6069 **List Source: Eurofins Midland** List Creation: 02/01/24 11:02 AM List Number: 2

Creator: Rodriguez, Leticia

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	N/A	

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<6mm (1/4").

Sante Fe Main Office Phone: (505) 476-3441 General Information

Phone: (505) 629-6116
Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS

Action 431331

QUESTIONS

ı	Operator:	OGRID:
ı	XTO ENERGY, INC	5380
ı	6401 Holiday Hill Road	Action Number:
ı	Midland, TX 79707	431331
ı		Action Type:
ı		[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2306844555
Incident Name	NAPP2306844555 BIG EDDY UNIT 156 @ 0
Incident Type	Fire
Incident Status	Remediation Closure Report Received
Incident Facility	[fAPP2126343561] BIG EDDY UNIT 156

Location of Release Source	
Please answer all the questions in this group.	
Site Name	BIG EDDY UNIT 156
Date Release Discovered	03/03/2023
Surface Owner	Federal

Incident Details	
lease answer all the questions in this group.	
Incident Type	Fire
Did this release result in a fire or is the result of a fire	Yes
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Other Other (Specify) Crude Oil Released: 0 BBL Recovered: 0 BBL Lost: 0 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	Not answered.
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Fluid built up and exited line, then ignited due to combustor flame. Fire extinguished itself and no injuries were reported. A third-party contractor has been retained for remediation purposes.

Operator:

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

XTO ENERGY, INC

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

QUESTIONS, Page 2

Action 431331

QUESTIONS (continued)

OGRID:

6401 Holiday Hill Road Midland, TX 79707	Action Number: 431331
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)
QUESTIONS	
Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	More info needed to determine if this will be treated as a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (2) an unauthorized release of a volume that: (a) results in a fire or is the result of a fire.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e.	e. gas only) are to be submitted on the C-129 form.
Initial Response The responsible party must undertake the following actions immediately unless they could create a s	afety hazard that would result in injury.
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.
	ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for releathe OCD does not relieve the operator of liability should their operations have failed to a	knowledge and understand that pursuant to OCD rules and regulations all operators are required ases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: Ashley Mcafee Email: ashley.a.mcafee@exxonmobil.com Date: 02/12/2025

Sante Fe Main Office Phone: (505) 476-3441 General Information

Phone: (505) 629-6116
Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS, Page 3

Action 431331

QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	431331
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Domodiation Dlan

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approva release discovery date.	l and beyond). This information must be provided to the appropriate district office no later than 90 days after the
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 51 and 75 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release ar	nd the following surface areas:
A continuously flowing watercourse or any other significant watercourse	Between 500 and 1000 (ft.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 500 and 1000 (ft.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be pr	rovided to the appropriate district office no later than 90 days after the release discovery date.
Requesting a remediation plan approval with this submission	Yes
ttach a comprehensive report demonstrating the lateral and vertical extents of soil con	tamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.
Have the lateral and vertical extents of contamination been fully delineated	d Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for ea	ch, in milligrams per kilograms.)
Chloride (EPA 300.0 or SM4500 Cl B)	230
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	50
GRO+DRO (EPA SW-846 Method 8015M)	50
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes which includes the anticipated timelines for beginning and completing the remediation.	completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,
On what estimated date will the remediation commence	04/03/2023
On what date will (or did) the final sampling or liner inspection occur	01/30/2024
On what date will (or was) the remediation complete(d)	01/30/2024
What is the estimated surface area (in square feet) that will be reclaimed	140
What is the estimated volume (in cubic yards) that will be reclaimed	3
What is the estimated volume (in cubic yards) that will be reclaimed What is the estimated surface area (in square feet) that will be remediate	

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

General Information Phone: (505) 629-6116

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

QUESTIONS, Page 4

Action 431331

QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	431331
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	HALFWAY DISPOSAL AND LANDFILL [FEEM0112334510]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
D 0 1 " D (40 45 00 44 NAAO 1 " " 1 1 1 1 " " 1 1 1 1 1 1 1 1 1 1	T

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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

I hereby agree and sign off to the above statement Name: Ashley Mcafee Email: ashley.a.mcafee@exxonmobil.com Date: 02/12/2025

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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

QUESTIONS, Page 5

Action 431331

QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	431331
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

Sante Fe Main Office Phone: (505) 476-3441 General Information

Phone: (505) 629-6116
Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS, Page 6

Action 431331

QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	431331
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Closure Request

Requesting a remediation closure approval with this submission

Sampling Event Information		
Last sampling notification (C-141N) recorded	308022	
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	01/30/2024	
What was the (estimated) number of samples that were to be gathered	8	
What was the sampling surface area in square feet	1600	

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Have the lateral and vertical extents of contamination been fully delineated	Yes	
Was this release entirely contained within a lined containment area	No	
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes	
What was the total surface area (in square feet) remediated	area (in square feet) remediated 140	
What was the total volume (cubic yards) remediated	3	
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes	
What was the total surface area (in square feet) reclaimed	140	
What was the total volume (in cubic yards) reclaimed	3	
Summarize any additional remediation activities not included by answers (above)	Soil sampling activities were conducted at the Site to address the March 3, 2023, release of crude oil resulting in a fire. The fire extinguished itself and no injuries were reported. Laboratory analytical results from all confirmation soil samples collected from the final excavation extent indicated all COC concentrations were complaint with the most stringent Table I Closure Criteria. Additionally, the release was delineated laterally to the most stringent Table I Closure Criteria. Based on soil sample analytical results, no further remediation is required. The excavation was backfilled with material purchased locally and the surface recontoured to match pre-existing Site conditions. Excavation of impacted soil has mitigated impacts at the Site. Depth to groundwater has been estimated to be greater than 51 feet bgs and no other sensitive receptors were identified near the release extent. XTO believes these remedial actions are protective of human health, the environment, and groundwater.	

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

	Name: Ashley Mcafee
I hereby agree and sign off to the above statement	Email: ashley.a.mcafee@exxonmobil.com
	Date: 02/12/2025

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

QUESTIONS, Page 7

Action 431331

QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	431331
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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CONDITIONS

Action 431331

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	431331
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Crea	ted By	Condition	Condition Date
rha	mlet	We have received your Remediation Closure Report for Incident #NAPP2306844555 BIG EDDY UNIT 156, thank you. This Remediation Closure Report is approved.	2/18/2025