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

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	nAPP2333240255
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

			Resp	onsible I alt	· y		
Responsible	Party XTC) Energy		OGRID	5380		
Contact Nam				Contact T	Contact Telephone 575-200-0729		
Contact emai	il garrett.gre	en@exxonmobil.c	om	Incident #	# (assigned by OCD)		
			reet, Carlsbad, Nev	w Mexico, 88220)		
			Location	of Release S	Source		
Latitude 32.	412360		(NAD 83 in dec	Longitude imal degrees to 5 deci			
Site Name Big Eddy Unit 156 CS					e Compressor Station		
Date Release				API# (if ap			
Unit Letter	Section	Township	Range	Cou	unty		
D	11	22S	28E	Edo	Eddy		
Surface Owner				Volume of	f Release fic justification for the volumes provided below)		
Crude Oil		Volume Release	ed (bbls)		Volume Recovered (bbls)		
× Produced	Water	Volume Release	ed (bbls) 4.55		Volume Recovered (bbls) 4.55		
		in the produced	tion of total dissolv water >10,000 mg		, , = =		
Condensa		Volume Release			Volume Recovered (bbls)		
☐ Natural G	as	Volume Release	ed (Mcf)		Volume Recovered (Mcf)		
Other (de Pegasus 805 U	*	Volume/Weight 4.55	Released (provide	e units)	ts) Volume/Weight Recovered (provide units) 4.55		
Cause of Rele	fluids w	vere recovere. A 4 ed and determined	18-hour advance lii	ner inspetion notic	, releasing fluids into lined impermeable containment. A ice was sent to NMOCD District 2. Liner was visually A third-party contractor has been retained for remediation		

Received by OCD: 2/15/2024 4:07:12 PM Form C-141 State of New Mexico Page 2 Oil Conservation Division

73	-		0 4	•
Page	-7	O	r I	112
I uge	4	v		\boldsymbol{v}

Incident ID	nAPP2333240255
District RP	
Facility ID	
Application ID	

Was this a major	If YES, for what reason(s) does the respon	nsible party consider this a major release?
release as defined by 19.15.29.7(A) NMAC?	N/A	
☐ Yes 🗷 No		
If YES, was immediate no N/A	otice given to the OCD? By whom? To wl	nom? When and by what means (phone, email, etc)?
	Initial R	esponse
The responsible j	party must undertake the following actions immediate	y unless they could create a safety hazard that would result in injury
The source of the rele	ease has been stopped.	
	s been secured to protect human health and	the environment.
Released materials ha	ave been contained via the use of berms or o	likes, absorbent pads, or other containment devices.
➤ All free liquids and re	ecoverable materials have been removed an	d managed appropriately.
If all the actions described	d above have <u>not</u> been undertaken, explain	why:
NA		
has begun, please attach	a narrative of actions to date. If remedial	emediation immediately after discovery of a release. If remediation efforts have been successfully completed or if the release occurred blease attach all information needed for closure evaluation.
regulations all operators are public health or the environr failed to adequately investig	required to report and/or file certain release notinent. The acceptance of a C-141 report by the Cate and remediate contamination that pose a three	best of my knowledge and understand that pursuant to OCD rules and fications and perform corrective actions for releases which may endanger DCD does not relieve the operator of liability should their operations have at to groundwater, surface water, human health or the environment. In responsibility for compliance with any other federal, state, or local laws
Printed Name: Garrett G	reen	Title: Environmental Coordinator
Signature:	M Sun	Date:
email: garrett.green@exx	conmobil.com	Telephone: 575-200-0729
OCD Only		
Received by:		Date:

Location:	BEU 156 Compressor Station		
Spill Date:	11/17/2023		
	Area 1		
Approximate A	rea =	51.09	cu.ft.
	VOLUME OF LEAK		
Total Oil =		4.55	bbls
Total Produced	Water =	4.55	bbls
	TOTAL VOLUME OF LEAK		
Total Oil =		4.55	bbls
Total Produced	l Water =	4.55	bbls
	TOTAL VOLUME RECOVERED		
Total Oil =		4.55	bbls
Total Produced	l Water =	4.55	bbls



February 15, 2024

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

Re: Closure Request
Big Eddy Unit 156 CS
Incident Number NAPP2333240255

Eddy County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum) on behalf of XTO Energy, Inc. (XTO), has prepared this *Closure Request* to document site assessment and soil sampling activities performed at the Big Eddy Unit 156 Compressor Station (CS; Site). The purpose of the site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil resulting from a release, which occurred within a lined containment, of produced water and a base oil with additives, specifically Mobil Pegasus 805. Based on field observations, field screening activities, and laboratory analytical results, XTO is submitting this *Closure Request* and requesting closure for Incident Number NAPP2333240255.

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°, -104.06451°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On November 17, 2023, the electric sump pump running to the tanks malfunctioned, causing a release of approximately 4.55 barrels (bbls) of produced water and 4.55 bbls of Mobil Pegasus 805, a base oil with additives, into a lined tank battery containment. A vacuum truck was immediately dispatched to the Site to recover the free-standing fluids and all released fluids were recovered. A 48-hour advance notice of liner inspection was provided via email to the New Mexico Oil Conservation Division (NMOCD) District II office. A liner integrity inspection was conducted by XTO personnel following the fluid recovery and upon inspection, it was determined that the liner was not operating as designed. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on November 28, 2023, and the release was assigned Incident Number NAPP2333240255.

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 discussed below.

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 were permitted through the New Mexico Office of the State Engineer (OSE file number C-3533, POD-1 through POD-

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

XTO Energy, Inc Closure Request Big Eddy Unit 156 CS



4) and were 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. 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 *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 A of the approved *Closure Request Report* for Incident Number nMLB1135446814.

The closest continuously flowing or significant watercourse to the Site is a freshwater emergent wetland, located approximately 765 feet northwest of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (medium potential karst designation area). Site receptors are identified on Figure 1.

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

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

Because the release included Mobil Pegasus 805, a base oil with additives, the Safety Data Sheet (SDS) was reviewed to determine what additional constituents of concern (COCs), if any, should be assessed. According to the SDS, the Mobil Pegasus 805 includes hydro-treated petroleum distillates and hydrogen phosphorodithioates, which can be detected through analysis of TPH. As such, no additional COCs were assessed for this release. The SDS for Mobil Pegasus 805 is provided in Appendix B.

SITE ASSESSMENT AND DELINEATION ACTIVITIES

Between January 10, and January 24, 2024, site assessment and delineation activities were conducted to evaluate the release extent based on information provided on the Form C-141 and visual observations. Ensolum personnel collected four delineation soil samples (SS01 through SS04) around the lined containment from a depth of approximately 0.5 feet bgs to confirm the release did not extend outside of the containment. Ensolum personnel advanced one borehole (BH01) via hand-auger at the location of the tear in the liner identified during the liner integrity inspection. Two discrete delineation soil samples were collected from the borehole at depths of approximately 0.5 feet and 1-foot bgs. The soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. Field screening results and observations from the borehole were documented on a lithologic/soil sampling log, which is included as Appendix C. The borehole was backfilled with the soil removed and XTO repaired the tear in the liner. The delineation soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation was conducted during the Site visit. A photographic log is included in Appendix D.

XTO Energy, Inc Closure Request Big Eddy Unit 156 CS



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

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for all delineation soil samples indicated that all COC concentrations were compliant with the Closure Criteria and the reclamation requirement. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Appendix E.

CLOSURE REQUEST

Following the failed liner integrity inspection at the Site, Ensolum personnel advanced one borehole (BH01) at the location of the tear in the liner to assess for the presence or absence of impacted soil resulting from the November 17, 2023, produced water and Mobil Pegasus 805 release within a lined containment. The release was contained laterally by the lined containment as indicated by delineation soil sample results from SS01 through SS04 and all released fluids were recovered during initial response activities. The tear in the liner was subsequently repaired.

Based on delineation sample results, no remediation is necessary because no impacted soil as defined by Table I and no waste-containing soil as defined by the reclamation requirement was identified directly beneath the tear in the liner, as such XTO respectfully requests closure for Incident Number NAPP2333240255. During pad abandonment, XTO will complete activities to revegetate the area and will submit a revegetation report.

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

Sincerely,

Ensolum, LLC

Mariaha O'Dell

Mariaha O'Dell Staff Geologist

> Garrett Green, XTO Tommee Lambert, XTO Bureau of Land Management

Appendices:

CC:

Figure 1 Site Receptor Map

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

Principal

ashley L. ager

XTO Energy, Inc Closure Request Big Eddy Unit 156 CS



Figure 2 Delineation Soil Sample Locations
Table 1 Soil Sample Analytical Results

Appendix A Well Record and Log

Appendix B Mobil Pegasus 805 Safety Data Sheet

Appendix C Lithologic Soil Sampling Logs

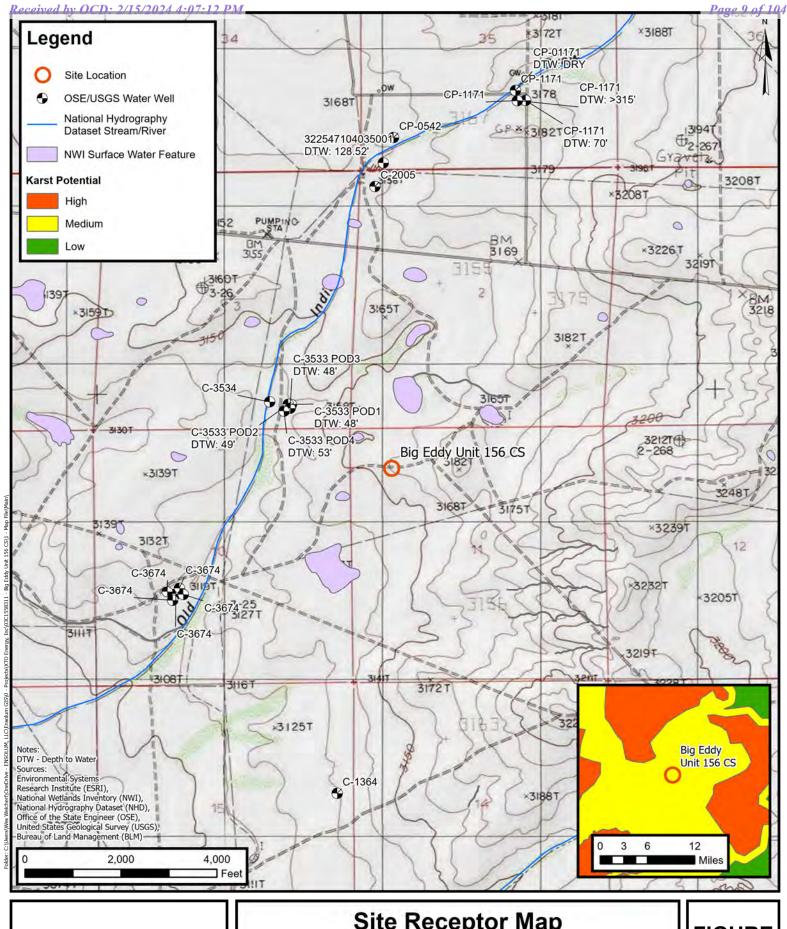
Appendix D Photographic Log

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

Appendix F NMOCD Notifications



FIGURES

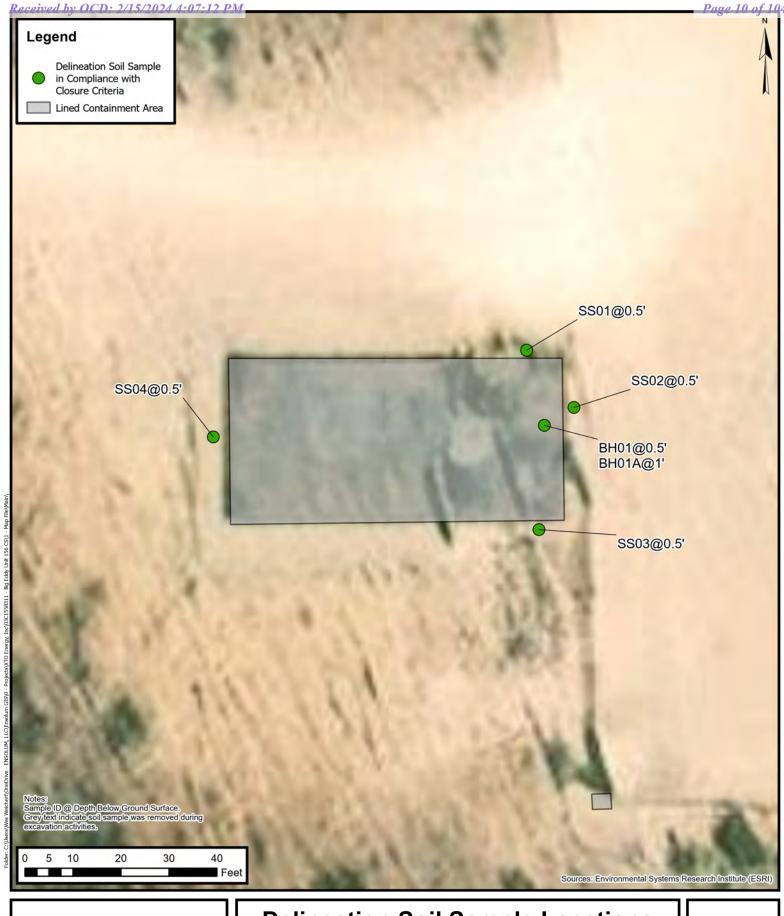




Site Receptor Map

XTO Energy, Inc Big Eddy Unit 156 CS Incident Number: nAPP2333240255 Unit D, Sec 11, T22S, R28E Eddy Co, New Mexico, United States **FIGURE**

Released to Imaging: 2/16/2024 10:25:51 AM





Delineation Soil Sample Locations XTO Energy, Inc Big Eddy Unit 156 CS Incident Number: nAPP2333240255

Unit D, Sec 11, T22S, R28E Eddy Co, New Mexico, United States **FIGURE** 2



TABLES



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

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I CI	osure Criteria (l	NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	10,000
	Delineation Soil Samples									
SS01	01/10/2024	0.5	<0.00199	<0.00398	<50.3	76.4	<50.3	76.4	76.4	11.4
SS02	01/10/2024	0.5	<0.00198	<0.00397	<49.8	<49.8	<49.8	<49.8	<49.8	25.9
SS03	01/10/2024	0.5	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	<4.98
SS04	01/10/2024	0.5	<0.00200	<0.00400	<50.4	<50.4	<50.4	<50.4	<50.4	8.23
BH01	01/24/2024	0.5	<0.00201	<0.00402	<50.3	56.1	<50.3	56.1	56.1	181
BH01A	01/24/2024	1	<0.00200	<0.00401	<50.3	67.3	<50.3	67.3	67.3	83.1

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

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

requirement where applicable.

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

NMAC: New Mexico Administrative Code

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 web	site: http://www.ose.state.nm.us/	2-30950 \$
Purpose:	☐ Pollution Control And / Or Recovery	☐ Geo-Thermal	•
	☐ Construction Site De-Watering	Other (Describe):	
☐ Monitoring	☐ Mineral De-Watering		
A separate permit wi	Il be required to apply water to beneficial use.		
□ Temporary Requestration □ Temporary Requestration	est - Requested Start Date: 2/1/12	Requested End Date: :	3/1/12
Plugging Plan of Ope	erations Submitted? X Yes No		ST RC
			ATE ISWE
1. APPLICANT(S)			NGINEE
Name: T any Savois	Bopco L. P.	Name: U.S. Dept. of Int	CIOB- BLM
Contact or Agent:	check here if Agent	Contact or Agent: cl	neckulaere if Agent 🗌
Contact : Tony	Savose	James A. Amo	ِي آي
Mailing Address: 522	W. Mermod, Suite 704		Greene Street
City: Carlsbad		City: Carlsbad	7
State: NM	Zip Code: 88220	 	Code: 88220-6292
Phone: 432-556-873		Phone:	l Home ☐ Cell
Phone (Work): 575-8	187-7329	Phone (Work) 575 - 234	1-5909
E-mail (optional): tas	savoie@basspet.com	E-mail (optional): Jamos Bbl	•

+ FE :01 A :01 831 \(\text{101} \)

ROSWELL, NEW MEXICO

F	OR	OSE	INT	ΈRI	NAL	USE

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

File Number: C-3533 Trn Number: Y95091

Trans Description (optional): EXPL

Sub-Basin: CPCW/LOG Due Date: 62/28/2013

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

Location Required: Coordin (Lat/Long - WGS84)	ate location must be	e 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		JTM (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" Nh/Sh/SECE (action of Tox R2BE
SITE A TMW-2	<u> </u>		N 22* 24' E7 95" W 404* 4' 4E 20"
POD2			NWSWSESE Section 03 T.225 R.28E N 32* 24' 57.85" W 104* 4' 15.38" NWSWSESE Section 3 T. 225 R.28E NWSWSESE Section 3 T. 225 R.28E NWSWSESE, Section 3 T. 225 R.28E N 32* 24' 57.07" W 104* 4' 14.92" NWSWSESE, Section 3 T. 225 N 32* 24'56.48" W 104*4' 16.43" O THE T-225
SITE A TMW-3			N 32* 24' 57.07" W 104* 4' 14.92"
			1. 2. OF 2 Section 02 - 1 D VICOF
SITE A TMW-5			N 32* 24'56.48" W 104*4' 16.43" O THE T-225
			SESESWSE, Section 03, D FR K-28E
		<u></u>	
NOTE: If more well location Additional well descriptions			WR-08 (Attachment 1 – POD Descriptions) If yes, how many
Other description relating well	l to common landman	ks, streets, or other:	U.L P Section 3, Twns. 22S, Range 28E
	- "		
Well is on land owned by: Bin			
		Il needs to be des	cribed, provide attachment. Attached? 🛭 Yes 🔲 No
Well Information: NOTE: If r	nore than one (1) we	·· ·· · · · · · · · · · · · · · · · ·	cribed, provide attachment. Attached? Yes No Outside diameter of well casing (inches): 2.00
Well Information: NOTE: If r	nore than one (1) we	C	
Well Information: NOTE: If r If yes, how many 4 Approximate depth of well (fe Driller Name: Straub 3. ADDITIONAL STATEMENTS	et): 55.00	s	Outside diameter of well casing (inches): 2.00 Priller License Number: WD 1478
Well Information: NOTE: If r If yes, how many 4 Approximate depth of well (fee Driller Name: Straub 3. ADDITIONAL STATEMENTS The bore holes at the Site & was encountered at a depth ft of 2" screen and a mesh fit developed over a period of a TMW-5 started out at approx	et): 55.00 S OR EXPLANATION were drilled on 1/12/ of approximately 55 lter sock. The NMOO bout 2 weeks. The v imately 2 ft. of water	S 12 as veritcal delir ft. below ground a D was notified of ovater elevation dro	Outside diameter of well casing (inches): 2.00
Well Information: NOTE: If r If yes, how many 4 Approximate depth of well (fee Driller Name: Straub 3. ADDITIONAL STATEMENTS The bore holes at the Site of 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 agreed with our conclusion for the started out of the started out	et): 55.00 S OR EXPLANATION were drilled on 1/12/ of approximately 55 lter sock. The NMOO bout 2 weeks. The v imately 2 ft. of water	S 12 as veritcal delir ft. below ground s D was notified of o vater elevation dro r column and now intered at 55 ft. was	outside diameter of well casing (inches): 2.00 oriller License Number: WD 1478 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
Well Information: NOTE: If real fyes, how many 4 Approximate depth of well (feed Driller Name: Straub) 3. ADDITIONAL STATEMENTS The bore holes at the Site of was encountered at a depth fit of 2" screen and a mesh fit developed over a period of a TMW-5 started out at approximate agreed with our conclusion for the started out at approximate agreed with our conclusion for the started out at approximate agreed with our conclusion for the started out at approximate agreed with our conclusion for the started out at approximate agreed with our conclusion for the started out at approximate agreed with our conclusion for the started out at approximate agreed with our conclusion for the started out at a	et): 55.00 SOR EXPLANATION were drilled on 1/12/ of approximately 55/ lter sock. The NMOC about 2 weeks. The v imately 2 ft. of water that the water encount	S 12 as veritcal delir ft. below ground s D was notified of evater elevation dro r column and now intered at 55 ft. was	outside diameter of well casing (inches): 2.00 oriller License Number: WD 1478 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

FOR OSE INTERNAL USE

File Number: C-3533 Trn Number: 495091
Page 2 of 3

Application for Permit, Form wr-07

	the information has been included and/		rrwell type. Please check the appropriate
Exploratory: Include a description of any proposed pump test, if applicable. Monitoring: Include the reason for the monitoring well, and, The duration of the planned monitoring.	Pollution Control and/or Recovery: Include a plan for pollution control/recovery, that includes the following: A description of the need for the pollution control or recovery operation The estimated maximum period of time for completion of the operation. The annual diversion amount. The annual consumptive use amount. The maximum amount of water to be diverted and injected for the duration of the operation. The method and place of discharge The method of measurement of water produced and discharged. The source of water to be injected. The method of measurement of water injected. The characteristics of the aquifer. The method of determining the resulting annual consumptive use of water and depletion from any related stream system. Proof of any permit required from the New Mexico Environment Department An access agreement if the applicant is not the owner of the land of which the pollution plume control or recovery well is to be located.	De-Watering:	Mine De-Watering: Include a plan for pollution control/recovery, that includes the following: A description of the need for mine dewatering. The estimated maximum period of time for completion of the operation. The source(s) of the water to be diverted. The geohydrologic characteristics of the aquifer(s). The maximum amount of water to be diverted per annum. The maximum amount of water to be diverted for the duration of the operation. The quality of the water. The method of measurement of water diverted. The recharge of water to the aquifer. Description of the estimated area of hydrologic effect of the project. An estimation of the effects on surface water rights and underground water rights from the mine dewatering project. A description of the methods employed to estimate effects on surface water rights and underground water rights. Information on existing wells, rivers, springs, and wetlands within the area of hydrologic effect.
		ACKNOWLEDGEMENT	11 /110 110
I, We (name of a	applicant(s)), John A. "Tony" Savoie	Print Name(s)	A. Amos (BLM. CFO)
affirm that the fo	regoing statements are true to the best	of (my, our) knowledge and belief.	
Applicant Signal		Applicant Signature ON OF THE STATE ENGINEER	2-10:12 ROSV 1 2017
		This application is:	7. EE
	XX approve	d ☐ partially approved ☐	denied B 20
provided it is no Mexico nor det	ot exercised to the detriment of any other rimental to the public welfare and furthe	ers having existing rights, and is not c r subject to the <u>attached</u> conditions of	ontrary to the conservation of water in New fapproval.
Witness my han	d and seal this 16th day of Febr	ruary 2012 .	for the State Engineer, XXF
Scott A.	Verhines; P.E.	, State Engineer	<u> </u>
- D711	Din 3	Pill Duomli	
Signature Signature	July July 1	Bill Duemli Print	ng
Title: Carlsb	ad Basin Supervisor		
Print			
		OSE INTERNAL USE	Application for Permit, Form wr-07
	File I	Number: <i>C-353</i> 3	Trn Number: 495091

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NEW MEXICO STATE ENGINEER OFFICE PERMIT TO EXPLORE

SPECIFIC CONDITIONS OF APPROVAL

- 1A 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

page: 1

aav c

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

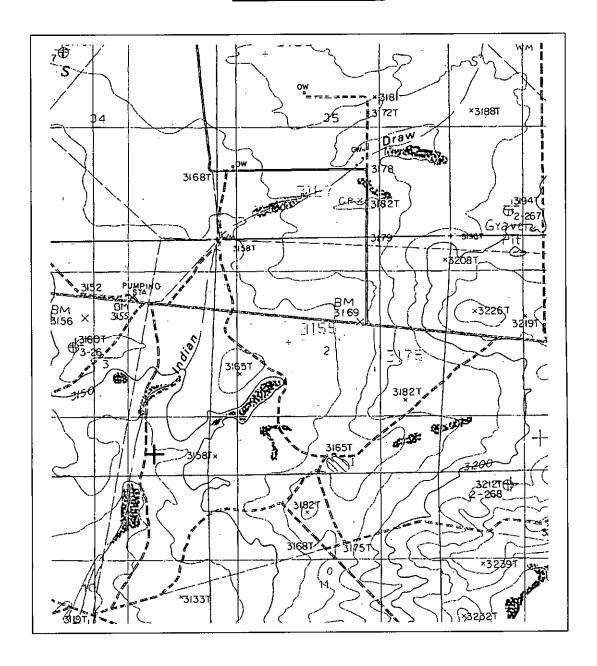
 NAD 1983(92) (Survey Feet)
 N: 515,193
 E: 622,372

 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:

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

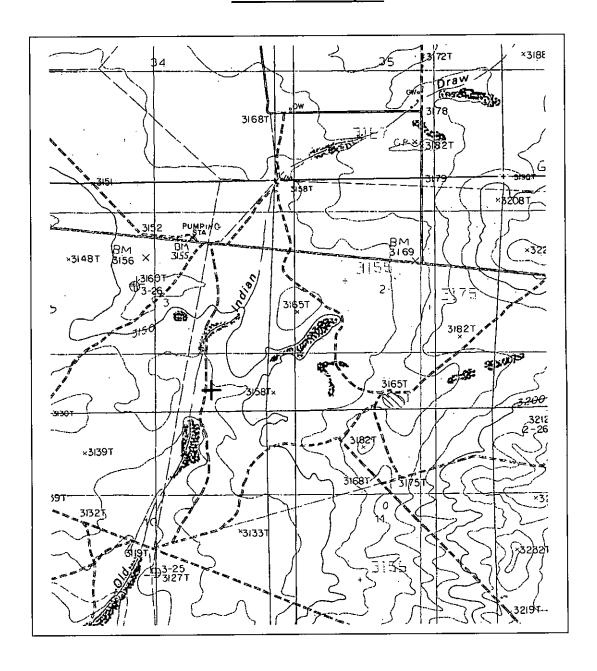
 NAD 1983(92) (Survey Feet)
 N: 515,197
 E: 622,307

 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

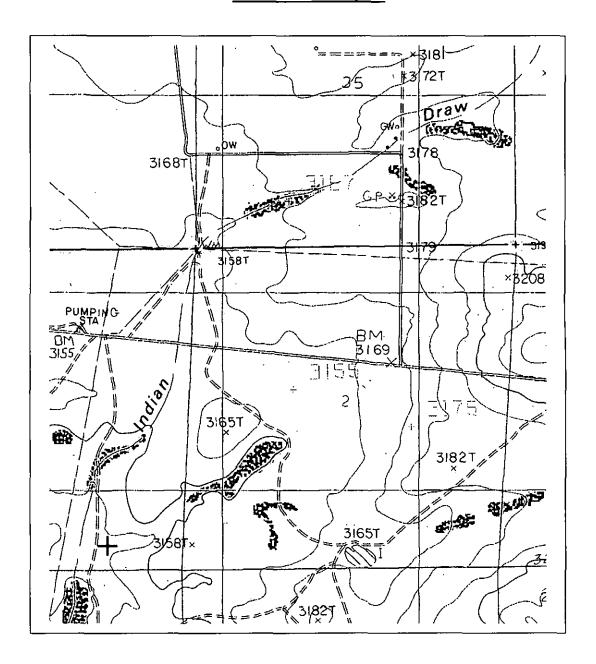
 NAD 1983(92) (Survey Feet)
 N: 515,118
 E: 622,347

 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

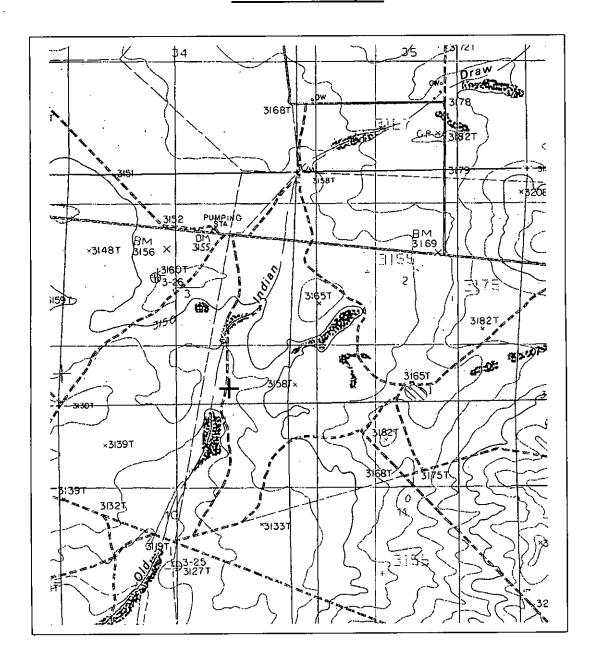
 NAD 1983(92) (Survey Feet)
 N: 515,058
 E: 622,218

 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

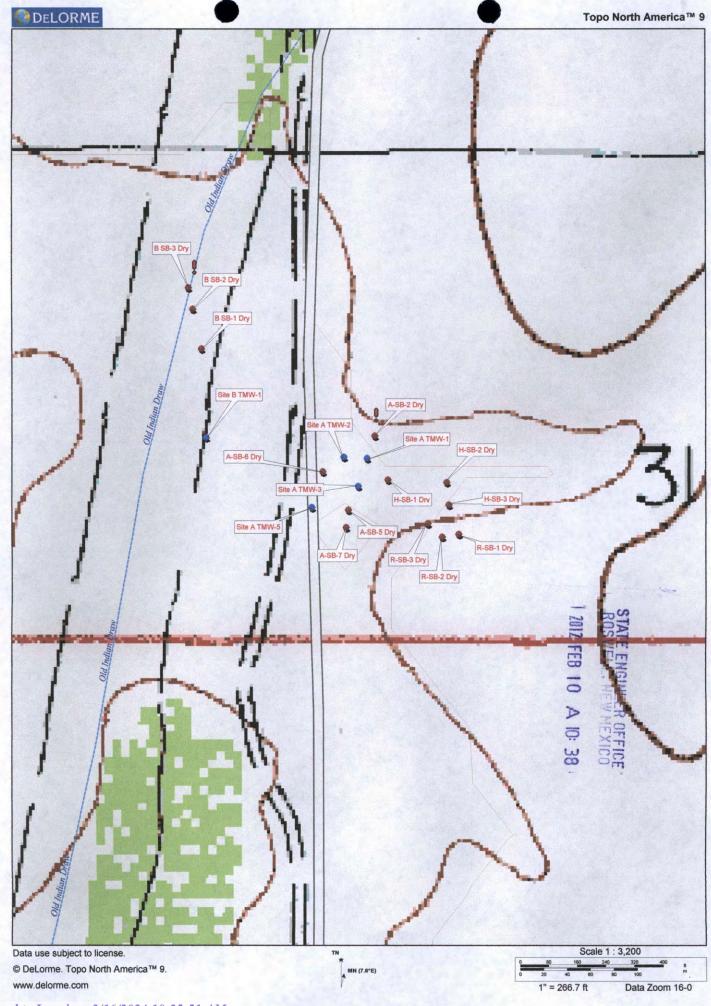
Locator Tool Report





GW Basin: Carlsbad

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



BOPCO L.P. BASS 3 FEDERAL #4 PROJECT

Site	Soil Bore	Temp. Well	Total Depth ft.	Water Column ft.	Status
Α	SB-1	TMW-1	55.48	5.58	Temporary well, pending plugging.
Α	SB-2		55	Dry	Bore was plugged with bentonite.
Α	SB-3	TMW-2	54.95	4.6	Temporary well, pending plugging.
Α	SB-4	TMW-3	54.95	5.5	Temporary well, pending plugging.
Α	SB-5		55	Dry	Originally set as TMW-4 "dry Hole" plugged with bentonite
Α	SB-6		55	Dry	Bore was plugged with bentonite.
Α	SB-7		55	Dry	Bore was plugged with bentonite.
Α	SB-8	TMW-5	54.95	0.25	Temporary well, pending plugging.
В	SB-1		40	Dry	Bore was plugged with bentonite
В	SB-2		60	Dry	Bore was plugged with bentonite
В	SB-3		110	Dry	Bore was plugged with bentonite
В	SB-4	TMW-1	147.86	42.27	Temporary well, pending permanent completion.
Site	Soil Bore	Lat Degrees	Long. Degrees		Degrees, Minutes, Seconds
Α	SB-1	32.41606	104.07073		N32* 24' 57.81" W 104* 4' 14.63"
Α	SB-2	32.41623	104.07066		N32* 24' 58.42" W 104* 4' 14.37"
Α	SB-3	32.41607	104.07094		N32* 24' 57.85" W 104* 4' 15.38"
Α	SB-4	32.41585	104.07081		N32* 24' 57.07" W 104* 4' 14.92"
Α	SB-5	32.41567	104.0709		N32* 24' 56.42" W 104* 4' 15.24"
Α	SB-6	32.41596	104.07113		N32* 24' 57.45" W 104* 4' 16.06"
Α	SB-7	32.41554	104.07092		N32* 24' 55.94" W 104* 4' 15.31"
Α	SB-8	32.41569	104.07123		N32* 24' 56.48" W 104* 4 16 43'834 7107
В	SB-1	32.41688	104.07223		N32* 25' 0.80" W 104* 4' 20.02"
В	SB-2	32.41719	104.07231		N32* 25' 1.88" W 104* 4' 20 32" 1 3 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5
В	SB-3	32.41735	104.07235		N32* 25' 2.47" W 104* 4' 20.45"
	SB-4	32.416216	104.072189		N32* 24' 58.38" W 104* 4' 19.89"

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

Mobil Pegasus 805 Safety Data Sheet



Revision Date: 26 Nov 2019

Page 1 of 11

SAFETY DATA SHEET

SECTION 1

PRODUCT AND COMPANY IDENTIFICATION

PRODUCT

Product Name: MOBIL PEGASUS 805
Product Description: Base Oil and Additives

Product Code: 201525106010, 602466-00, 97D936

Intended Use: Natural gas engine oil

COMPANY IDENTIFICATION

Supplier: EXXON MOBIL CORPORATION

22777 Springwoods Village Parkway

Spring, TX 77389 USA

24 Hour Health Emergency 609-737-4411

Transportation Emergency Phone 800-424-9300 or 703-527-3887 CHEMTREC

Product Technical Information 800-662-4525

MSDS Internet Address www.exxon.com, www.mobil.com

SECTION 2

HAZARDS IDENTIFICATION

This material is not hazardous according to regulatory guidelines (see (M)SDS Section 15).

Other hazard information:

HAZARD NOT OTHERWISE CLASSIFIED (HNOC): None as defined under 29 CFR 1910.1200.

PHYSICAL / CHEMICAL HAZARDS

No significant hazards.

HEALTH HAZARDS

High-pressure injection under skin may cause serious damage. Excessive exposure may result in eye, skin, or respiratory irritation.

ENVIRONMENTAL HAZARDS

No significant hazards.

NFPA Hazard ID: Health: 0 Flammability: 1 Reactivity: 0 HMIS Hazard ID: Health: 0 Flammability: 1 Reactivity: 0



Revision Date: 26 Nov 2019

Page 2 of 11

NOTE: This material should not be used for any other purpose than the intended use in Section 1 without expert advice. Health studies have shown that chemical exposure may cause potential human health risks which may vary from person to person.

SECTION 3

COMPOSITION / INFORMATION ON INGREDIENTS

This material is defined as a mixture.

Hazardous Substance(s) or Complex Substance(s) required for disclosure

Name	CAS#		GHS Hazard Codes
		Concentration*	
2,5-FURANDIONE, DIHYDRO-, POLYBUTENYL DERIVS. REACTION PRODUCTS WITH TETRAETHYLENEPENTAMINE	68583-75-5	1 - < 5%	H413
2-PENTANOL, 4-METHYL-, HYDROGEN PHOSPHORODITHIOATE, ZINC SALT	2215-35-2	0.1 - < 1%	H303, H315, H318, H401, H411
BENZENE PROPANOIC ACID, 3,5-BIS(1,1- DIMETHYLETHYL)-4-HYDROXY-, C7-9 BRANCHED ALKYL ESTERS	125643-61-0	1 - < 5%	H413
BENZENE SULFONIC ACIDS, C10-16 ALKYL DERIVS., CA SALTS	68584-23-6	0.1 - < 1%	H317
BENZENESULFONIC ACID, MONO-C16-24-ALKYL DERIVS. CALCIUM SALTS	70024-69-0	0.1 - < 1%	H317
SULFONIC ACIDS, PETROLEUM, CALCIUM SALTS	61789-86-4	0.1 - < 1%	H317

^{*} All concentrations are percent by weight unless material is a gas. Gas concentrations are in percent by volume.

As per paragraph (i) of 29 CFR 1910.1200, formulation is considered a trade secret and specific chemical identity and exact percentage (concentration) of composition may have been withheld. Specific chemical identity and exact percentage composition will be provided to health professionals, employees, or designated representatives in accordance with applicable provisions of paragraph (i).

SECTION 4

FIRST AID MEASURES

INHALATION

Remove from further exposure. adequate respiratory protection. immediate medical assistance. mouth-to-mouth resuscitation.

For those providing assistance, avoid exposure to yourself or others. Use If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek If breathing has stopped, assist ventilation with a mechanical device or use

SKIN CONTACT

Wash contact areas with soap and water. If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician as a surgical emergency. Even though initial symptoms from high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury.

EYE CONTACT

Flush thoroughly with water. If irritation occurs, get medical assistance.

INGESTION

First aid is normally not required. Seek medical attention if discomfort occurs.



Revision Date: 26 Nov 2019

Page 3 of 11

SECTION 5

FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA

Appropriate Extinguishing Media: Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish flames

Inappropriate Extinguishing Media: Straight Streams of Water

FIRE FIGHTING

Fire Fighting Instructions: Evacuate area. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply. Firefighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA). Use water spray to cool fire exposed surfaces and to protect personnel.

Hazardous Combustion Products: Aldehydes, Incomplete combustion products, Oxides of carbon, Smoke, Fume, Sulfur oxides

FLAMMABILITY PROPERTIES

Flash Point [Method]: >245°C (473°F) [ASTM D-92]

Flammable Limits (Approximate volume % in air): LEL: 0.9 UEL: 7.0

Autoignition Temperature: N/D

SECTION 6

ACCIDENTAL RELEASE MEASURES

NOTIFICATION PROCEDURES

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations. US regulations require reporting releases of this material to the environment which exceed the applicable reportable quantity or oil spills which could reach any waterway including intermittent dry creeks. The National Response Center can be reached at (800)424-8802.

PROTECTIVE MEASURES

Avoid contact with spilled material. See Section 5 for fire fighting information. See the Hazard Identification Section for Significant Hazards. See Section 4 for First Aid Advice. See Section 8 for advice on the minimum requirements for personal protective equipment. Additional protective measures may be necessary, depending on the specific circumstances and/or the expert judgment of the emergency responders.

For emergency responders: Respiratory protection: respiratory protection will be necessary only in special cases, e.g., formation of mists. Half-face or full-face respirator with filter(s) for dust/organic vapor or Self Contained Breathing Apparatus (SCBA) can be used depending on the size of spill and potential level of exposure. If the exposure cannot be completely characterized or an oxygen deficient atmosphere is possible or anticipated, SCBA is recommended. Work gloves that are resistant to hydrocarbons are recommended. Gloves made of polyvinyl acetate (PVA) are not water-resistant and are not suitable for emergency use. Chemical goggles are recommended if splashes or contact with eyes is possible. Small spills: normal antistatic work clothes are usually adequate. Large spills: full body suit of chemical resistant, antistatic material is recommended.



Revision Date: 26 Nov 2019

Page 4 of 11

SPILL MANAGEMENT

Land Spill: Stop leak if you can do it without risk. Recover by pumping or with suitable absorbent.

Water Spill: Stop leak if you can do it without risk. Confine the spill immediately with booms. Warn other shipping. Remove from the surface by skimming or with suitable absorbents. Seek the advice of a specialist before using dispersants.

Water spill and land spill recommendations are based on the most likely spill scenario for this material; however, geographic conditions, wind, temperature, (and in the case of a water spill) wave and current direction and speed may greatly influence the appropriate action to be taken. For this reason, local experts should be consulted. Note: Local regulations may prescribe or limit action to be taken.

ENVIRONMENTAL PRECAUTIONS

Large Spills: Dike far ahead of liquid spill for later recovery and disposal. Prevent entry into waterways, sewers, basements or confined areas.

SECTION 7

HANDLING AND STORAGE

HANDLING

Prevent small spills and leakage to avoid slip hazard. Material can accumulate static charges which may cause an electrical spark (ignition source). When the material is handled in bulk, an electrical spark could ignite any flammable vapors from liquids or residues that may be present (e.g., during switch-loading operations). Use proper bonding and/or ground procedures. However, bonding and grounds may not eliminate the hazard from static accumulation. Consult local applicable standards for guidance. Additional references include American Petroleum Institute 2003 (Protection Against Ignitions Arising out of Static, Lightning and Stray Currents) or National Fire Protection Agency 77 (Recommended Practice on Static Electricity) or CENELEC CLC/TR 50404 (Electrostatics - Code of practice for the avoidance of hazards due to static electricity).

Static Accumulator: This material is a static accumulator.

STORAGE

The type of container used to store the material may affect static accumulation and dissipation. Do not store in open or unlabelled containers.

SECTION 8

EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits/standards for materials that can be formed when handling this product: When mists/aerosols can occur the following are recommended: 5 mg/m³ - ACGIH TLV (inhalable fraction), 5 mg/m³ - OSHA PEL.

NOTE: Limits/standards shown for guidance only. Follow applicable regulations.

No biological limits allocated.

ENGINEERING CONTROLS



Control measures to consider:

Revision Date: 26 Nov 2019

Page 5 of 11

The level of protection and types of controls necessary will vary depending upon potential exposure conditions.

No special requirements under ordinary conditions of use and with adequate ventilation.

PERSONAL PROTECTION

Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation. Information on the selection of protective equipment for use with this material, as provided below, is based upon intended, normal usage.

Respiratory Protection: If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate. Respirator selection, use, and maintenance must be in accordance with regulatory requirements, if applicable. Types of respirators to be considered for this material include:

No special requirements under ordinary conditions of use and with adequate ventilation.

For high airborne concentrations, use an approved supplied-air respirator, operated in positive pressure mode. Supplied air respirators with an escape bottle may be appropriate when oxygen levels are inadequate, gas/vapor warning properties are poor, or if air purifying filter capacity/rating may be exceeded.

Hand Protection: Any specific glove information provided is based on published literature and glove manufacturer data. Glove suitability and breakthrough time will differ depending on the specific use conditions. Contact the glove manufacturer for specific advice on glove selection and breakthrough times for your use conditions. Inspect and replace worn or damaged gloves. The types of gloves to be considered for this material include:

No protection is ordinarily required under normal conditions of use.

Eye Protection: If contact is likely, safety glasses with side shields are recommended.

Skin and Body Protection: Any specific clothing information provided is based on published literature or manufacturer data. The types of clothing to be considered for this material include:

No skin protection is ordinarily required under normal conditions of use. In accordance with good industrial hygiene practices, precautions should be taken to avoid skin contact.

Specific Hygiene Measures: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.

ENVIRONMENTAL CONTROLS

Comply with applicable environmental regulations limiting discharge to air, water and soil. Protect the environment by applying appropriate control measures to prevent or limit emissions.

SECTION 9

PHYSICAL AND CHEMICAL PROPERTIES

Note: Physical and chemical properties are provided for safety, health and environmental considerations only and may not fully represent product specifications. Contact the Supplier for additional information.

GENERAL INFORMATION



Revision Date: 26 Nov 2019

Page 6 of 11

Physical State: Liquid

Color: Amber
Odor: Characteristic
Odor Threshold: N/D

IMPORTANT HEALTH, SAFETY, AND ENVIRONMENTAL INFORMATION

Relative Density (at 15.6 °C): 0.89 Flammability (Solid, Gas): N/A

Flash Point [Method]: >245°C (473°F) [ASTM D-92]

Flammable Limits (Approximate volume % in air): LEL: 0.9 UEL: 7.0

Autoignition Temperature: N/D

Boiling Point / Range: > 288°C (550°F)

Decomposition Temperature: N/D **Vapor Density (Air = 1):** > 2 at 101 kPa

Vapor Pressure: < 0.013 kPa (0.1 mm Hg) at 20 °C Evaporation Rate (n-butyl acetate = 1): N/D

pH: N/A

Log Pow (n-Octanol/Water Partition Coefficient): > 3.5

Solubility in Water: Negligible

Viscosity: 130 cSt (130 mm2/sec) at 40 °C | 13.5 cSt (13.5 mm2/sec) at 100°C [ASTM D 445]

Oxidizing Properties: See Hazards Identification Section.

OTHER INFORMATION

Freezing Point: N/D Melting Point: N/A

Pour Point: -12°C (10°F)

DMSO Extract (mineral oil only), IP-346: < 3 %wt

SECTION 10 STABILITY AND REACTIVITY

REACTIVITY: See sub-sections below.

STABILITY: Material is stable under normal conditions.

CONDITIONS TO AVOID: Excessive heat. High energy sources of ignition.

MATERIALS TO AVOID: Strong oxidizers

HAZARDOUS DECOMPOSITION PRODUCTS: Material does not decompose at ambient temperatures.

POSSIBILITY OF HAZARDOUS REACTIONS: Hazardous polymerization will not occur.

SECTION 11 TOXICOLOGICAL INFORMATION

INFORMATION ON TOXICOLOGICAL EFFECTS

Hazard Class	Conclusion / Remarks			
Inhalation				
Acute Toxicity: No end point data for material.	Minimally Toxic. Based on assessment of the components.			
Irritation: No end point data for material.	Negligible hazard at ambient/normal handling temperatures.			



Revision Date: 26 Nov 2019

Page 7 of 11

Ingestion	
Acute Toxicity: No end point data for	Minimally Toxic. Based on assessment of the components.
material.	
Skin	
Acute Toxicity: No end point data for	Minimally Toxic. Based on assessment of the components.
material.	
Skin Corrosion/Irritation: No end point data	Negligible irritation to skin at ambient temperatures. Based on
for material.	assessment of the components.
Eye	
Serious Eye Damage/Irritation: No end point	May cause mild, short-lasting discomfort to eyes. Based on
data for material.	assessment of the components.
Sensitization	
Respiratory Sensitization: No end point data	Not expected to be a respiratory sensitizer.
for material.	
Skin Sensitization: No end point data for	Not expected to be a skin sensitizer. Based on assessment of the
material.	components.
Aspiration: Data available.	Not expected to be an aspiration hazard. Based on physico-
	chemical properties of the material.
Germ Cell Mutagenicity: No end point data	Not expected to be a germ cell mutagen. Based on assessment of
for material.	the components.
Carcinogenicity: No end point data for	Not expected to cause cancer. Based on assessment of the
material.	components.
Reproductive Toxicity: No end point data	Not expected to be a reproductive toxicant. Based on assessment
for material.	of the components.
Lactation: No end point data for material.	Not expected to cause harm to breast-fed children.
Specific Target Organ Toxicity (STOT)	
Single Exposure: No end point data for	Not expected to cause organ damage from a single exposure.
material.	
Repeated Exposure: No end point data for	Not expected to cause organ damage from prolonged or repeated
material.	exposure. Based on assessment of the components.

TOXICITY FOR SUBSTANCES

NAME	ACUTE TOXICITY
2-PENTANOL, 4-METHYL-, HYDROGEN	Oral Lethality: LD50 2230 mg/kg (Rat)
PHOSPHORODITHIOATE, ZINC SALT	

OTHER INFORMATION

For the product itself:

Component concentrations in this formulation would not be expected to cause skin sensitization, based on tests of the components, this formulation, or similar formulations.

Contains:

Base oil severely refined: Not carcinogenic in animal studies. Representative material passes IP-346, Modified Ames test, and/or other screening tests. Dermal and inhalation studies showed minimal effects; lung non-specific infiltration of immune cells, oil deposition and minimal granuloma formation. Not sensitizing in test animals.

Sulfonates: This product contains sulfonates which have been reported to cause skin sensitization.

The following ingredients are cited on the lists below: None.



Revision Date: 26 Nov 2019

Page 8 of 11

-- REGULATORY LISTS SEARCHED--

1 = NTP CARC 3 = IARC 1 5 = IARC 2B 2 = NTP SUS 4 = IARC 2A 6 = OSHA CARC

SECTION 12

ECOLOGICAL INFORMATION

The information given is based on data for the material, components of the material, or for similar materials, through the application of bridging principals.

ECOTOXICITY

Material -- Not expected to be harmful to aquatic organisms.

MOBILITY

Base oil component -- Low solubility and floats and is expected to migrate from water to the land. Expected to partition to sediment and wastewater solids.

PERSISTENCE AND DEGRADABILITY

Biodegradation:

Base oil component -- Expected to be inherently biodegradable

BIOACCUMULATION POTENTIAL

Base oil component -- Has the potential to bioaccumulate, however metabolism or physical properties may reduce the bioconcentration or limit bioavailability.

SECTION 13

DISPOSAL CONSIDERATIONS

Disposal recommendations based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.

DISPOSAL RECOMMENDATIONS

Product is suitable for burning in an enclosed controlled burner for fuel value or disposal by supervised incineration at very high temperatures to prevent formation of undesirable combustion products. Protect the environment. Dispose of used oil at designated sites. Minimize skin contact. Do not mix used oils with solvents, brake fluids or coolants.

REGULATORY DISPOSAL INFORMATION

RCRA Information: The unused product, in our opinion, is not specifically listed by the EPA as a hazardous waste (40 CFR, Part 261D), nor is it formulated to contain materials which are listed as hazardous wastes. It does not exhibit the hazardous characteristics of ignitability, corrositivity or reactivity and is not formulated with contaminants as determined by the Toxicity Characteristic Leaching Procedure (TCLP). However, used product may be regulated.



Revision Date: 26 Nov 2019

Page 9 of 11

Empty Container Warning Empty Container Warning (where applicable): Empty containers may contain residue and can be dangerous. Do not attempt to refill or clean containers without proper instructions. Empty drums should be completely drained and safely stored until appropriately reconditioned or disposed. Empty containers should be taken for recycling, recovery, or disposal through suitably qualified or licensed contractor and in accordance with governmental regulations. DO NOT PRESSURISE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.

SECTION 14 TRANSPORT INFORMATION

LAND (DOT): Not Regulated for Land Transport

LAND (TDG): Not Regulated for Land Transport

SEA (IMDG): Not Regulated for Sea Transport according to IMDG-Code

Marine Pollutant: No

AIR (IATA): Not Regulated for Air Transport

SECTION 15 REGULATORY INFORMATION

OSHA HAZARD COMMUNICATION STANDARD: This material is not considered hazardous in accordance with OSHA HazCom 2012, 29 CFR 1910.1200.

Listed or exempt from listing/notification on the following chemical inventories: AICS, DSL, ENCS, ISHL, KECI, PICCS, TCSI, TSCA

Special Cases:

Inventory	Status
IECSC	Restrictions Apply

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302

SARA (311/312) REPORTABLE GHS HAZARD CLASSES: None.

SARA (313) TOXIC RELEASE INVENTORY: This material contains no chemicals subject to the supplier notification requirements of the SARA 313 Toxic Release Program.

The following ingredients are cited on the lists below:



Revision Date: 26 Nov 2019

Page 10 of 11

Chemical Name	CAS Number	List Citations	
2-PENTANOL, 4-METHYL-, HYDROGEN PHOSPHORODITHIOATE, ZINC SALT	2215-35-2	15	
SEVERELY HYDROTREATED HEAVY PARAFFINIC DISTILLATE	64742-54-7	17, 18, 19	

-- REGULATORY LISTS SEARCHED--

1 = ACGIH ALL	6 = TSCA 5a2	11 = CA P65 REPRO	16 = MN RTK
2 = ACGIH A1	7 = TSCA 5e	12 = CA RTK	17 = NJ RTK
3 = ACGIH A2	8 = TSCA 6	13 = IL RTK	18 = PA RTK
4 = OSHA Z	9 = TSCA 12b	14 = LA RTK	19 = RI RTK
5 = TSCA 4	10 = CA P65 CARC	15 = MI 293	

Code key: CARC=Carcinogen; REPRO=Reproductive

SECTION 16	OTHER INFORMATION

N/D = Not determined, N/A = Not applicable

KEY TO THE H-CODES CONTAINED IN SECTION 3 OF THIS DOCUMENT (for information only):

H303: May be harmful if swallowed; Acute Tox Oral, Cat 5

H315: Causes skin irritation; Skin Corr/Irritation, Cat 2

H317: May cause allergic skin reaction; Skin Sensitization, Cat 1

H318: Causes serious eye damage; Serious Eye Damage/Irr, Cat 1

H401: Toxic to aquatic life; Acute Env Tox, Cat 2

H411: Toxic to aquatic life with long lasting effects; Chronic Env Tox, Cat 2

H413: May cause long lasting harmful effects to aquatic life; Chronic Env Tox, Cat 4

THIS SAFETY DATA SHEET CONTAINS THE FOLLOWING REVISIONS:

Composition: Component Table information was modified.

Section 09: Vapor Pressure information was added.

Section 11 Acute Toxicity data - Header information was added.

Section 11 Substance Name - Header information was added.

Section 11 Substance Toxicity table - Header information was added.

Section 11 Substance Toxicology table information was added.

Section 12: information was modified.

Section 15: List Citations Table information was modified.

Section 15: National Chemical Inventory Listing information was modified.

Section 16: HCode Key information was modified.

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Revision Date: 26 Nov 2019

Page 11 of 11

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Internal Use Only

MHC: 0B, 0B, 0, 0, 0, 0 PPEC: A

DGN: 2007675XUS (1015410)

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APPENDIX C

Lithologic Soil Sampling Logs

								Camarda Namas, BUO1	Date: 1/24/2024
		ΙE	R	1 S O) L [U M		Sample Name: BH01 Site Name: Big Eddy Unit 156 CS	Date: 1/24/2024
				mental, Engir				Incident Number: NAPP2333240255	
		Hyd	lrog	eologic Consu	ultants			Job Number: 03C1558311	
							Mothod: Hand Augar		
Coordinates: 32.412354, -104.064453						Logged By: MR Hole Diameter: 3.5"	Method: Hand Auger Total Depth: 1'		
Coordinates: 32.412354, -104.064453 Comments: Field screening conducted with HACH Chloride Test Strips and PID for							<u> </u>		
1:4 dilution factor of soil to distilled water.							emorace and vapor, respectively. em	onde test performed with	
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Des	
M	<168	5.2	N Z	BH01 BH01A	0.5 _ - - 1 _	0.5	CCHE	0-1' CALICHE, dark brown, sog gravel, poorly sorted, coar sub-rounded grains, no sta	se to medium grained,
	7100	5.9	2	ВПОТА		±P		Total Depth @ 1 foot bgs, aug	ger refusal.



APPENDIX D

Photographic Log



Photographic Log

XTO Energy Big Eddy Unit 156 CS Incident Number NAPP2333240255





Photograph: 1 Date: 11/17/2023

Description: Site conditions following the release.

View: Southwest

Photograph: 2 Date: 1/10/2024 Description: Site assessment, liner condition.

View: Southeast



Photograph: 3 Date: 1/10/2024 Description: Site assessment, liner tear location.

View: South



Photograph: 4 Date: 1/24/2024

Description: Delineation activities, BH01.

View: East



Photographic Log

XTO Energy Big Eddy Unit 156 CS Incident Number NAPP2333240255



Photograph: 1 Date:1/24/2024 Description: Delineation activities, BH01 backfilled.

View: Southeast



Photograph: 2 Date:1/30/2024

Description: BH01 liner patch.

View: East



APPENDIX E

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 1/18/2024 10:48:31 AM

JOB DESCRIPTION

BIG EDDY UNIT 156 CS 03C1558311

JOB NUMBER

890-5946-1

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 1/18/2024 10:48:31 AM

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

Companies

Client: Ensolum
Project/Site: BIG EDDY UNIT 156 CS
Laboratory Job ID: 890-5946-1
SDG: 03C1558311

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
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	24

1

5

7

0

10

11

13

14

Definitions/Glossary

Job ID: 890-5946-1 Client: Ensolum Project/Site: BIG EDDY UNIT 156 CS

SDG: 03C1558311

Qualifiers

GC VOA

Qualifier **Qualifier Description** LCS and/or LCSD is outside acceptance 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, high biased. 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: 890-5946-1

Project: BIG EDDY UNIT 156 CS

Eurofins Carlsbad Job ID: 890-5946-1

Job Narrative 890-5946-1

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

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the
- 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 1/10/2024 2:53 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 -0.4°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SS 01 (890-5946-1), SS 02 (890-5946-2), SS 03 (890-5946-3) and SS 04 (890-5946-4).

GC VOA

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-71001 and analytical batch 880-71037 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: The surrogate recovery for the blank associated with preparation batch 880-70792 and analytical batch 880-70811 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (880-37809-A-21-D), (880-37809-A-21-E MS) and (880-37809-A-21-F MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-70792 and analytical batch 880-70811 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

HPLC/IC

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

Client: Ensolum Job ID: 890-5946-1
Project/Site: BIG EDDY UNIT 156 CS SDG: 03C1558311

Client Sample ID: SS 01 Lab Sample ID: 890-5946-1

Date Collected: 01/10/24 13:20 Matrix: Solid
Date Received: 01/10/24 14:53

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/16/24 13:33	01/17/24 13:00	1
Toluene	< 0.00199	U	0.00199	mg/Kg		01/16/24 13:33	01/17/24 13:00	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		01/16/24 13:33	01/17/24 13:00	1
m-Xylene & p-Xylene	<0.00398	U *+	0.00398	mg/Kg		01/16/24 13:33	01/17/24 13:00	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		01/16/24 13:33	01/17/24 13:00	1
Xylenes, Total	<0.00398	U *+	0.00398	mg/Kg		01/16/24 13:33	01/17/24 13:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130			01/16/24 13:33	01/17/24 13:00	1
1,4-Difluorobenzene (Surr)	75		70 - 130			01/16/24 13:33	01/17/24 13:00	1
Method: TAL SOP Total BTEX -	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			01/17/24 13:00	1
Method: SW846 8015 NM - Diese				Unit	n	Prenared	Analyzed	Dil Fac
				Unit	n	Propared	Analyzad	Dil Fac
Analyte		Qualifier	RL 50.3	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 01/14/24 17:07	Dil Fac
Analyte Total TPH	Result 76.4	Qualifier	50.3		<u>D</u>	Prepared		Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die	Result 76.4 sel Range Orga	Qualifier nics (DRO)	RL 50.3	mg/Kg			01/14/24 17:07	1
Analyte Total TPH Method: SW846 8015B NM - Die: Analyte	Result 76.4 sel Range Orga Result	Qualifier nics (DRO) Qualifier	RL 50.3 (GC)	mg/Kg	<u>D</u>	Prepared	01/14/24 17:07 Analyzed	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics	Result 76.4 sel Range Orga	Qualifier nics (DRO) Qualifier	RL 50.3	mg/Kg			01/14/24 17:07	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics (GRO)-C6-C10	Result 76.4 sel Range Orga Result	Qualifier nics (DRO) Qualifier	RL 50.3 (GC)	mg/Kg		Prepared	01/14/24 17:07 Analyzed	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics	Result 76.4 sel Range Orga Result < 50.3	Qualifier nics (DRO) Qualifier	(GC) RL 50.3	mg/Kg Unit mg/Kg		Prepared 01/12/24 17:11	01/14/24 17:07 Analyzed 01/14/24 17:07	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result 76.4 sel Range Orga Result < 50.3	Qualifier nics (DRO) Qualifier U	(GC) RL 50.3	mg/Kg Unit mg/Kg		Prepared 01/12/24 17:11	01/14/24 17:07 Analyzed 01/14/24 17:07	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result	Qualifier nics (DRO) Qualifier U	RL 50.3 (GC) RL 50.3 50.3	mg/Kg Unit mg/Kg mg/Kg		Prepared 01/12/24 17:11 01/12/24 17:11	01/14/24 17:07 Analyzed 01/14/24 17:07 01/14/24 17:07	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Diesel Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result 76.4	Qualifier nics (DRO) Qualifier U	RL 50.3 (GC) RL 50.3 50.3 50.3	mg/Kg Unit mg/Kg mg/Kg		Prepared 01/12/24 17:11 01/12/24 17:11 01/12/24 17:11	01/14/24 17:07 Analyzed 01/14/24 17:07 01/14/24 17:07 01/14/24 17:07	Dil Fac 1 1 Dil Fac Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result 76.4	Qualifier nics (DRO) Qualifier U	RL 50.3 (GC) RL 50.3 50.3 50.3 <i>Limits</i>	mg/Kg Unit mg/Kg mg/Kg		Prepared 01/12/24 17:11 01/12/24 17:11 01/12/24 17:11 Prepared	Analyzed 01/14/24 17:07 Analyzed 01/14/24 17:07 01/14/24 17:07 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result	Qualifier nics (DRO) Qualifier U Qualifier	RL 50.3 (GC) RL 50.3 50.3 50.3 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 01/12/24 17:11 01/12/24 17:11 01/12/24 17:11 Prepared 01/12/24 17:11	01/14/24 17:07 Analyzed 01/14/24 17:07 01/14/24 17:07 01/14/24 17:07 Analyzed 01/14/24 17:07	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Diesel 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 nics (DRO) Qualifier U Qualifier	RL 50.3 (GC) RL 50.3 50.3 50.3 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 01/12/24 17:11 01/12/24 17:11 01/12/24 17:11 Prepared 01/12/24 17:11	01/14/24 17:07 Analyzed 01/14/24 17:07 01/14/24 17:07 01/14/24 17:07 Analyzed 01/14/24 17:07	·

Client Sample ID: SS 02 Lab Sample ID: 890-5946-2

Date Collected: 01/10/24 13:25 Date Received: 01/10/24 14:53

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		01/16/24 13:33	01/17/24 13:20	1
Toluene	<0.00198	U	0.00198	mg/Kg		01/16/24 13:33	01/17/24 13:20	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		01/16/24 13:33	01/17/24 13:20	1
m-Xylene & p-Xylene	<0.00397	U *+	0.00397	mg/Kg		01/16/24 13:33	01/17/24 13:20	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		01/16/24 13:33	01/17/24 13:20	1
Xylenes, Total	<0.00397	U *+	0.00397	mg/Kg		01/16/24 13:33	01/17/24 13:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130			01/16/24 13:33	01/17/24 13:20	1

Eurofins Carlsbad

Matrix: Solid

2

3

4

6

8

10

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. .

Job ID: 890-5946-1

Client: Ensolum Project/Site: BIG EDDY UNIT 156 CS SDG: 03C1558311

Client Sample ID: SS 02 Lab Sample ID: 890-5946-2

Date Collected: 01/10/24 13:25 **Matrix: Solid** Date Received: 01/10/24 14:53

Sample Depth: 0.5'

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

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1.4-Difluorobenzene (Surr)	85	70 - 130	01/16/24 13:33	01/17/24 13:20	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397 U	0.00397	ma/Ka			01/17/24 13:20	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	ma/Ka			01/14/24 17:29	1	

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

		(,	(/					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		01/12/24 17:11	01/14/24 17:29	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		01/12/24 17:11	01/14/24 17:29	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		01/12/24 17:11	01/14/24 17:29	1
Surrogato	% Pocovory	Qualifier	Limite			Propared	Analyzod	Dil Eac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	106	70 - 130	01/12/24 17:11	01/14/24 17:29	1
o-Terphenyl	85	70 - 130	01/12/24 17:11	01/14/24 17:29	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	25.9		5.00	mg/Kg			01/13/24 06:27	1

Client Sample ID: SS 03 Lab Sample ID: 890-5946-3

Date Collected: 01/10/24 13:30 Date Received: 01/10/24 14:53

Sample Depth: 0.5'

Markland, CIMO 40 00	21B - Volatile Organic	O
IVIATOON' SVVXAN XII	21B - Volatile Circanic	L.Omnollings (Lat.)

Welliou. Syvo46 60216 - Voial	ne Organic Comp	ounus (GC))					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/16/24 13:33	01/17/24 13:41	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/16/24 13:33	01/17/24 13:41	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/16/24 13:33	01/17/24 13:41	1
m-Xylene & p-Xylene	<0.00399	U *+	0.00399	mg/Kg		01/16/24 13:33	01/17/24 13:41	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/16/24 13:33	01/17/24 13:41	1
Xylenes, Total	<0.00399	U *+	0.00399	mg/Kg		01/16/24 13:33	01/17/24 13:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130			01/16/24 13:33	01/17/24 13:41	1

4-bromondobenzene (Sun)	07	10 - 130	01/10/24 13.33	01/11/24 13.41	1
1,4-Difluorobenzene (Surr)	82	70 - 130	01/16/24 13:33	01/17/24 13:41	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			01/17/24 13:41	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			01/14/24 17:51	1

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Matrix: Solid

Job ID: 890-5946-1

Client: Ensolum Project/Site: BIG EDDY UNIT 156 CS SDG: 03C1558311

Lab Sample ID: 890-5946-3

Client Sample ID: SS 03 Date Collected: 01/10/24 13:30 Date Received: 01/10/24 14:53

Matrix: Solid

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		01/12/24 17:11	01/14/24 17:51	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		01/12/24 17:11	01/14/24 17:51	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/12/24 17:11	01/14/24 17:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130			01/12/24 17:11	01/14/24 17:51	1
o-Terphenyl	81		70 - 130			01/12/24 17:11	01/14/24 17:51	1
- Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
Welliou. EPA 300.0 - Allions, ion								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: SS 04 Lab Sample ID: 890-5946-4 Date Collected: 01/10/24 13:35

Date Received: 01/10/24 14:53

Matrix: Solid

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/16/24 13:33	01/17/24 14:01	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/16/24 13:33	01/17/24 14:01	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/16/24 13:33	01/17/24 14:01	1
m-Xylene & p-Xylene	<0.00400	U *+	0.00400	mg/Kg		01/16/24 13:33	01/17/24 14:01	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/16/24 13:33	01/17/24 14:01	1
Xylenes, Total	<0.00400	U *+	0.00400	mg/Kg		01/16/24 13:33	01/17/24 14:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130			01/16/24 13:33	01/17/24 14:01	1
1,4-Difluorobenzene (Surr)	77		70 - 130			01/16/24 13:33	01/17/24 14:01	1
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			01/17/24 14:01	1
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4	mg/Kg			01/14/24 18:12	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4	mg/Kg		01/12/24 17:11	01/14/24 18:12	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4	mg/Kg		01/12/24 17:11	01/14/24 18:12	1
OII Range Organics (Over C28-C36)	<50.4	U	50.4	mg/Kg		01/12/24 17:11	01/14/24 18:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130			01/12/24 17:11	01/14/24 18:12	1

Client Sample Results

Client: Ensolum Job ID: 890-5946-1 Project/Site: BIG EDDY UNIT 156 CS SDG: 03C1558311

Lab Sample ID: 890-5946-4 Client Sample ID: SS 04 Matrix: Solid

Date Collected: 01/10/24 13:35 Date Received: 01/10/24 14:53

Sample Depth: 0.5'

Method: EPA 300.0 - Anions, Ion CI	hromatograp	hy - Soluble	Э					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.23		5.05	mg/Kg			01/13/24 06:33	1

DFBZ = 1,4-Difluorobenzene (Surr)

Surrogate Summary

Client: Ensolum Job ID: 890-5946-1 Project/Site: BIG EDDY UNIT 156 CS SDG: 03C1558311

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		DED4	DED74	Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-5945-A-1-C MS	Matrix Spike	118	117	
890-5945-A-1-D MSD	Matrix Spike Duplicate	113	105	
890-5946-1	SS 01	85	75	
890-5946-2	SS 02	85	85	
890-5946-3	SS 03	87	82	
890-5946-4	SS 04	85	77	
LCS 880-71001/1-A	Lab Control Sample	110	113	
LCSD 880-71001/2-A	Lab Control Sample Dup	115	94	
MB 880-71001/5-A	Method Blank	71	89	
Surrogate Legend				

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limit
		1CO1	OTPH1	
ab Sample ID	Client Sample ID	(70-130)	(70-130)	
30-37809-A-21-E MS	Matrix Spike	158 S1+	117	
30-37809-A-21-F MSD	Matrix Spike Duplicate	158 S1+	118	
90-5946-1	SS 01	115	93	
0-5946-2	SS 02	106	85	
90-5946-3	SS 03	100	81	
0-5946-4	SS 04	112	90	
CS 880-70792/2-A	Lab Control Sample	88	90	
CSD 880-70792/3-A	Lab Control Sample Dup	99	104	
B 880-70792/1-A	Method Blank	170 S1+	172 S1+	

1CO = 1-Chlorooctane OTPH = o-Terphenyl

Client: Ensolum Job ID: 890-5946-1 Project/Site: BIG EDDY UNIT 156 CS SDG: 03C1558311

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-71001/5-A

Analysis Batch: 71037

Matrix: Solid

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 71001

	IVID	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/16/24 13:33	01/17/24 11:16	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/16/24 13:33	01/17/24 11:16	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/16/24 13:33	01/17/24 11:16	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/16/24 13:33	01/17/24 11:16	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/16/24 13:33	01/17/24 11:16	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/16/24 13:33	01/17/24 11:16	1

MB MB

MD MD

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	71		70 - 130	01/16/24 13:33	01/17/24 11:16	1
1,4-Difluorobenzene (Surr)	89		70 - 130	01/16/24 13:33	01/17/24 11:16	1

Lab Sample ID: LCS 880-71001/1-A **Client Sample ID: Lab Control Sample**

Matrix: Solid

Analysis Batch: 71037

Prep Type: Total/NA Prep Batch: 71001

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.1294 mg/Kg 129 70 - 130 Toluene 0.100 0.1127 mg/Kg 113 70 - 130 0.100 Ethylbenzene 0.1239 mg/Kg 124 70 - 130 0.200 135 70 - 130 m-Xylene & p-Xylene 0.2698 *+ mg/Kg 0.100 70 - 130 o-Xylene 0.1268 mg/Kg 127

LCS LCS

Surrogate	%Recovery Qualifie	er Limits
4-Bromofluorobenzene (Surr)	110	70 - 130
1,4-Difluorobenzene (Surr)	113	70 - 130

Lab Sample ID: LCSD 880-71001/2-A

Matrix: Solid

Analysis Batch: 71037

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 71001

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1281		mg/Kg		128	70 - 130	1	35
Toluene	0.100	0.1178		mg/Kg		118	70 - 130	4	35
Ethylbenzene	0.100	0.1260		mg/Kg		126	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.2731	*+	mg/Kg		137	70 - 130	1	35
o-Xylene	0.100	0.1285		mg/Kg		129	70 - 130	1	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1.4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: 890-5945-A-1-C MS

Matrix: Solid

Analysis Batch: 71037

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

Prep Batch: 71001

_	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00198		0.100	0.1220		mg/Kg		114	70 - 130	
Toluene	<0.00198		0.100	0.1055		mg/Kg		73	70 - 130	

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Page 11 of 25

1/18/2024

Prep Type: Total/NA

Job ID: 890-5946-1 Client: Ensolum Project/Site: BIG EDDY UNIT 156 CS SDG: 03C1558311

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

Client Sample ID: Matrix Spike Lab Sample ID: 890-5945-A-1-C MS

Matrix: Solid

Analysis Batch: 71037 Prep Batch: 71001 Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits

<0.00198 0.100 0.1207 104 70 - 130 Ethylbenzene mg/Kg m-Xylene & p-Xylene < 0.00396 0.201 0.2560 mg/Kg 99 70 - 130 <0.00198 0.100 0.1198 89 o-Xylene mg/Kg 70 - 130MS MS

Surrogate %Recovery Qualifier Limits 70 - 130 4-Bromofluorobenzene (Surr) 118 1,4-Difluorobenzene (Surr) 70 - 130 117

Lab Sample ID: 890-5945-A-1-D MSD Client Sample ID: Matrix Spike Duplicate Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 71037

Prep Batch: 71001 Sample Sample Spike MSD MSD RPD Result Qualifier Limit babbA Result Qualifier %Rec Limits RPD Analyte Unit Benzene <0.00198 U 0.101 0.1143 mg/Kg 113 70 - 130 7 35 Toluene <0.00198 0.101 0.1019 mg/Kg 101 70 - 130 3 35 <0.00198 0.101 0.1098 109 70 - 130 35 Ethylbenzene U mg/Kg 9 m-Xylene & p-Xylene <0.00396 U*+ 0.202 0.2321 mq/Kq 115 70 - 130 10 35 0.101 o-Xylene <0.00198 U 0.1097 mg/Kg 109 70 - 130

MSD MSD

Qualifier Limits Surrogate %Recovery 4-Bromofluorobenzene (Surr) 113 70 - 130 1,4-Difluorobenzene (Surr) 105 70 - 130

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

Lab Sample ID: MB 880-70792/1-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 70811

мв мв Result Qualifier RL Unit D Dil Fac Analyte Prepared Analyzed <50.0 U 50.0 01/12/24 17:11 01/14/24 09:00 Gasoline Range Organics mg/Kg (GRO)-C6-C10 01/14/24 09:00 Diesel Range Organics (Over <50.0 U 50.0 01/12/24 17:11 mg/Kg C10-C28) OII Range Organics (Over C28-C36) <50.0 U 50.0 01/12/24 17:11 01/14/24 09:00 mg/Kg

MB MB

%Recovery Qualifier Limits Prepared Dil Fac Surrogate Analyzed 1-Chlorooctane 170 S1+ 70 - 130 01/12/24 17:11 01/14/24 09:00 172 S1+ 70 - 130 01/12/24 17:11 01/14/24 09:00 o-Terphenyl

Lab Sample ID: LCS 880-70792/2-A

Matrix: Solid

Analysis Batch: /0811								Prep Batch: /U/92		
	Spike	LCS	LCS				%Rec			
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits			
Gasoline Range Organics	1000	1087		mg/Kg		109	70 - 130		_	
(GRO)-C6-C10										
Diesel Range Organics (Over	1000	929.5		mg/Kg		93	70 - 130			
C10-C28)										

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Client Sample ID: Lab Control Sample

Prep Batch: 70792

Prep Type: Total/NA

Job ID: 890-5946-1

SDG: 03C1558311

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

Lab Sample ID: LCS 880-70792/2-A

Lab Sample ID: LCSD 880-70792/3-A

Lab Sample ID: 880-37809-A-21-E MS

Project/Site: BIG EDDY UNIT 156 CS

Matrix: Solid

Client: Ensolum

Analysis Batch: 70811

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 70792

LCS LCS

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 88 70 - 130 o-Terphenyl 90 70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Batch: 70792

Matrix: Solid Prep Type: Total/NA Analysis Batch: 70811

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit 1000 1046 105 70 - 13020 Gasoline Range Organics mg/Kg 4 (GRO)-C6-C10 Diesel Range Organics (Over 1000 904.7 90 mg/Kg 70 - 1303 20 C10-C28)

LCSD LCSD

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

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 70792

Spike MS MS Sample Sample Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits Gasoline Range Organics <49.9 U F1 1010 1410 F1 mg/Kg 136 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <49.9 UF1 1010 1452 F1 mg/Kg 139 70 - 130

C10-C28)

Matrix: Solid

Analysis Batch: 70811

MS MS %Recovery Qualifier Surrogate Limits S1+ 70 - 130 1-Chlorooctane 158 70 - 130 o-Terphenyl 117

Lab Sample ID: 880-37809-A-21-F MSD Client Sample ID: Matrix Spike Duplicate Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 70811 Prep Batch: 70792 Sample Sample MSD MSD RPD Spike %Rec

Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Gasoline Range Organics U F1 1010 1373 F1 <49.9 132 70 - 130 20 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <49.9 UF1 1010 1493 F1 mg/Kg 143 70 - 130 3 20

C10-C28)

MSD MSD %Recovery Qualifier Surrogate Limits 1-Chlorooctane 158 S1+ 70 - 130 118 70 - 130 o-Terphenyl

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Client Sample ID: Matrix Spike

Client Sample ID: Matrix Spike Duplicate

QC Sample Results

Client: Ensolum Job ID: 890-5946-1
Project/Site: BIG EDDY UNIT 156 CS SDG: 03C1558311

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-70717/1-A

Matrix: Solid

Analysis Batch: 70796

MB MB

 Analyte
 Result Chloride
 Qualifier S.00
 RL Unit Median
 Unit Median
 D Median
 Prepared Manalyzed Median
 Dil Fac Dil Fac Median

 Chloride
 <5.00</td>
 U
 5.00
 mg/Kg
 01/13/24 04:04
 1

Lab Sample ID: LCS 880-70717/2-A

Matrix: Solid

Analysis Batch: 70796

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 251.9 mg/Kg 101 90 - 110

Lab Sample ID: LCSD 880-70717/3-A

Matrix: Solid

Analysis Batch: 70796

LCSD LCSD %Rec RPD Spike Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 255.1 mg/Kg 102 90 - 110

Lab Sample ID: 890-5944-A-2-B MS

Matrix: Solid

Analysis Batch: 70796

MS MS Sample Sample Spike %Rec Analyte Result Qualifier Added Qualifier %Rec Result Unit Limits 296.2 Chloride 35.5 250 104 90 - 110 mg/Kg

Lab Sample ID: 890-5944-A-2-C MSD

Matrix: Solid

Analysis Batch: 70796

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit 250 Chloride 35.5 296.9 mg/Kg 105 90 - 110 0 20

QC Association Summary

Client: Ensolum
Project/Site: BIG EDDY UNIT 156 CS

Job ID: 890-5946-1 SDG: 03C1558311

GC VOA

Prep Batch: 71001

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5946-1	SS 01	Total/NA	Solid	5035	
890-5946-2	SS 02	Total/NA	Solid	5035	
890-5946-3	SS 03	Total/NA	Solid	5035	
890-5946-4	SS 04	Total/NA	Solid	5035	
MB 880-71001/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-71001/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-71001/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-5945-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
890-5945-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 71037

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5946-1	SS 01	Total/NA	Solid	8021B	71001
890-5946-2	SS 02	Total/NA	Solid	8021B	71001
890-5946-3	SS 03	Total/NA	Solid	8021B	71001
890-5946-4	SS 04	Total/NA	Solid	8021B	71001
MB 880-71001/5-A	Method Blank	Total/NA	Solid	8021B	71001
LCS 880-71001/1-A	Lab Control Sample	Total/NA	Solid	8021B	71001
LCSD 880-71001/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	71001
890-5945-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	71001
890-5945-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	71001

Analysis Batch: 71101

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep Batch
890-5946-1	SS 01	Total/NA	Solid	Total BTEX
890-5946-2	SS 02	Total/NA	Solid	Total BTEX
890-5946-3	SS 03	Total/NA	Solid	Total BTEX
890-5946-4	SS 04	Total/NA	Solid	Total BTEX

GC Semi VOA

Prep Batch: 70792

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5946-1	SS 01	Total/NA	Solid	8015NM Prep	
890-5946-2	SS 02	Total/NA	Solid	8015NM Prep	
890-5946-3	SS 03	Total/NA	Solid	8015NM Prep	
890-5946-4	SS 04	Total/NA	Solid	8015NM Prep	
MB 880-70792/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-70792/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-70792/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-37809-A-21-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-37809-A-21-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 70811

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5946-1	SS 01	Total/NA	Solid	8015B NM	70792
890-5946-2	SS 02	Total/NA	Solid	8015B NM	70792
890-5946-3	SS 03	Total/NA	Solid	8015B NM	70792
890-5946-4	SS 04	Total/NA	Solid	8015B NM	70792
MB 880-70792/1-A	Method Blank	Total/NA	Solid	8015B NM	70792
LCS 880-70792/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	70792

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Page 15 of 25

QC Association Summary

Client: Ensolum Job ID: 890-5946-1 Project/Site: BIG EDDY UNIT 156 CS SDG: 03C1558311

GC Semi VOA (Continued)

Analysis Batch: 70811 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-70792/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	70792
880-37809-A-21-E MS	Matrix Spike	Total/NA	Solid	8015B NM	70792
880-37809-A-21-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	70792

Analysis Batch: 70917

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5946-1	SS 01	Total/NA	Solid	8015 NM	
890-5946-2	SS 02	Total/NA	Solid	8015 NM	
890-5946-3	SS 03	Total/NA	Solid	8015 NM	
890-5946-4	SS 04	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 70717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5946-1	SS 01	Soluble	Solid	DI Leach	
890-5946-2	SS 02	Soluble	Solid	DI Leach	
890-5946-3	SS 03	Soluble	Solid	DI Leach	
890-5946-4	SS 04	Soluble	Solid	DI Leach	
MB 880-70717/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-70717/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-70717/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-5944-A-2-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-5944-A-2-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 70796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5946-1	SS 01	Soluble	Solid	300.0	70717
890-5946-2	SS 02	Soluble	Solid	300.0	70717
890-5946-3	SS 03	Soluble	Solid	300.0	70717
890-5946-4	SS 04	Soluble	Solid	300.0	70717
MB 880-70717/1-A	Method Blank	Soluble	Solid	300.0	70717
LCS 880-70717/2-A	Lab Control Sample	Soluble	Solid	300.0	70717
LCSD 880-70717/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	70717
890-5944-A-2-B MS	Matrix Spike	Soluble	Solid	300.0	70717
890-5944-A-2-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	70717

Job ID: 890-5946-1

SDG: 03C1558311

Client: Ensolum
Project/Site: BIG EDDY UNIT 156 CS

Client Sample ID: SS 01 Lab Sample ID: 890-5946-1

Date Collected: 01/10/24 13:20

Date Received: 01/10/24 14:53

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			5.03 g	5 mL	71001	01/16/24 13:33	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71037	01/17/24 13:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71101	01/17/24 13:00	SM	EET MID
Total/NA	Analysis	8015 NM		1			70917	01/14/24 17:07	SM	EET MID
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	70792	01/12/24 17:11	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70811	01/14/24 17:07	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	70717	01/12/24 08:10	СН	EET MID
Soluble	Analysis	300.0		1			70796	01/13/24 06:22	CH	EET MID

Client Sample ID: SS 02 Lab Sample ID: 890-5946-2

Date Collected: 01/10/24 13:25

Date Received: 01/10/24 14:53

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			5.04 g	5 mL	71001	01/16/24 13:33	EL	EET MIC
Total/NA	Analysis	8021B		1	5 mL	5 mL	71037	01/17/24 13:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71101	01/17/24 13:20	SM	EET MID
Total/NA	Analysis	8015 NM		1			70917	01/14/24 17:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	70792	01/12/24 17:11	TKC	EET MIC
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70811	01/14/24 17:29	SM	EET MIC
Soluble	Leach	DI Leach			5 g	50 mL	70717	01/12/24 08:10	СН	EET MIC
Soluble	Analysis	300.0		1			70796	01/13/24 06:27	CH	EET MID

Client Sample ID: SS 03

Date Collected: 01/10/24 13:30

Lab Sample ID: 890-5946-3

Matrix: Solid

Date Received: 01/10/24 14:53

	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	71001	01/16/24 13:33	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71037	01/17/24 13:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71101	01/17/24 13:41	SM	EET MID
Total/NA	Analysis	8015 NM		1			70917	01/14/24 17:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	70792	01/12/24 17:11	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70811	01/14/24 17:51	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	70717	01/12/24 08:10	СН	EET MID
Soluble	Analysis	300.0		1			70796	01/13/24 06:38	CH	EET MID

Client Sample ID: SS 04 Lab Sample ID: 890-5946-4

Date Collected: 01/10/24 13:35 Date Received: 01/10/24 14:53

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	71001	01/16/24 13:33	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71037	01/17/24 14:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71101	01/17/24 14:01	SM	EET MID

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Matrix: Solid

Lab Chronicle

Client: Ensolum Job ID: 890-5946-1 Project/Site: BIG EDDY UNIT 156 CS SDG: 03C1558311

Client Sample ID: SS 04

Lab Sample ID: 890-5946-4 Date Collected: 01/10/24 13:35

Matrix: Solid

Date Received: 01/10/24 14:53

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			70917	01/14/24 18:12	SM	EET MID
Total/NA	Prep	8015NM Prep			9.93 g	10 mL	70792	01/12/24 17:11	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70811	01/14/24 18:12	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	70717	01/12/24 08:10	CH	EET MID
Soluble	Analysis	300.0		1			70796	01/13/24 06:33	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: BIG EDDY UNIT 156 CS
Job ID: 890-5946-1
SDG: 03C1558311

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	Р	T104704400-23-26	06-30-24
0 ,	are included in this report, bu	ut the laboratory is not certi	fied by the governing authority. This lis	t may include analytes
Analysis Method	Prep Method	Matrix	Analyte	
8015 NM		Solid	Total TPH	
Total BTEX		Solid	Total BTEX	

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EET MID

EET MID

SW846

ASTM

Method Summary

Client: Ensolum

Project/Site: BIG EDDY UNIT 156 CS

Job ID: 890-5946-1

SDG: 03C1558311

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

Protocol References:

8015NM Prep

DI Leach

ASTM = ASTM International

EPA = US Environmental Protection Agency

Microextraction

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Deionized Water Leaching 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: BIG EDDY UNIT 156 CS

Job ID: 890-5946-1

SDG: 03C1558311

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-5946-1	SS 01	Solid	01/10/24 13:20	01/10/24 14:53	0.5'
890-5946-2	SS 02	Solid	01/10/24 13:25	01/10/24 14:53	0.5'
890-5946-3	SS 03	Solid	01/10/24 13:30	01/10/24 14:53	0.5'
890-5946-4	SS 04	Solid	01/10/24 13:35	01/10/24 14:53	0.5'

Date/Time

Received by: (Signature)

Relinquished by: (Signature)

Date Time

ceived by: (Signature)

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Chain of Custody

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

Environment Testing

eurofins :

Xenco

Work Order No:

Project Manager:	Ben Beill	Bill to: (if different)	J	Garrett Green	Work Orde	Work Order Comments	
Company Name:	-	Company Name:	XT	XTO Energy	Program: UST/PST PRP	Brownfields ☐ RRC ☐ So	Superfund
Address:	3122 Not'l Parks Hwy	Address:	3104	3104 E Greene St	State of Project:		
City, State ZIP:		City, State ZIP:	Carisi	Carisbad NM 88220	Reporting: Level II Level III	PST/UST TRRP	Level IV
Phone:		Email: b	birelill@ensolum.com	um. wm	Deliverables: EDD /	ADaPT Other:	
Project Name:	BIG EDDY LINI T ISE CS	Turn Around		ANALYSIS REQUEST	ST	Preservative Codes	Se
er:	03C1558311 Reputine	Rush	Pres. Code			None: NO DI W	DI Water: H ₂ O
Project Location:	32.41236,704.064507 Due Date:	ite:				Cool: Cool	MeOH: Me
		TAT starts the day received by				HCL: HC	HNO 3: HN
PO #:		the lab, if received by 4.30pm				H₂SO ₄: H₂ NaOH: Na	: Na
SAMPLE RECEIPT	Jemp Blank: (Yes) No Wet Ice:	e: Yes No	eters	890-5946 Chain of Custody	of Custody	H ₃ PO ₄ : HP	Ì
Samples Received Intact:	7	Comin			-	NaHSO 4: NABIS	
Cooler Custody Seals:	Yes No N/A	-02				Na25203: NaSO 3	
Sample Custody Seals:	Yes No N/A					Zn Acetate+NaOH: Zn	
Total Containers:)	i.	x=	-		NaOH+Ascorbic Acid: SAPC	2
	0.00 P	Grab/	14	10			
Sample Identification	Matrix Sampled Si	Depth	C 8			Sample Comments	ts
SSO	S 11924 1330	S, 0.5	X X -			Incident #:	
2055		_				NAPP2333240865	365
\$503	1330	0					
ACIDA	1335	35 4	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			Cost Center:	
				- mag		PENDING.	
						mosperti @ensolum. w	Solum.
Total 200.7 / 6010	200.8 / 6020: 8RCR.	Texas 11	I Sb As Ba Be B	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K	¥		
Circle Method(s) a	Circle Method(s) and Metal(s) to be analyzed TCL	P / SPLP 6010 : 8RCF	A Sb As Ba Be C	TCLP/SPLP6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U	e Ag TI U Hg: 1631 / 245.1 / 7470	45.1 / 7470 / 7471	
Notice: Signature of this docur	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	se order from clent company t	o Eurofins Xenco, its affiliates	and subcontractors. It assigns standard term	s and conditions		
of service. Eurofins Xenco will	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	y responsibility for any losses or	expenses incurred by the clie	nt if such losses are due to circumstances bey	ond the control		
of Eurofins Xenco. A minimun	of Eurofins Xenco. Aminimum 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 regotiated.	of \$5 for each sample submitte	ed to Eurofins Xenco, but not	analyzed. These terms will be enforced unless	previously negotiated.		

1089 N Canal St. **Eurofins Carlsbad**

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Chain of Custody Record

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Environment Testing

State, Zip: TX, 79701 Project Name: BIG EDDY UNIT 156 CS Vote: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the aboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Environment Testing South Central LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC. SS 04 (890-5946-4) SS 03 (890-5946-3) SS 02 (890-5946-2) SS 01 (890-5946-1) Sample Identification - Client ID (Lab ID) Midland 432-704-5440(Tel) 1211 W Florida Ave Shipping/Receiving Carlsbad, NM 88220 Phone: 575-988-3199 Fax 575-988-3199 Eurofins Environment Testing South Centr Client Information (Sub Contract Lab) elinquished by: mpty Kit Relinquished by: Deliverable Requested I, II, III IV, Other (specify) ossible Hazard Identification elinquished by elinquished by Custody Seals Intact: Ϋ́es 8 Custody Seal No Project #: 89000093 Date/Time Date/Time Date/Time Primary Deliverable Rank. 2 Due Date Requested 1/16/2024 Phone TAT Requested (days): 1/10/24 1/10/24 1/10/24 1/10/24 Date Mountain 13 30 Mountain 13 25 Mountain 13 35 Mountain 13 20 G=grab) (C=comp, Sample Preservation Code: Company Company Matrix Solid Solid Solid Solid Lab PM. Kramer, Jessica Jessica Kramer@et.eurofinsus.com Time NELAP - Texas ccreditations Required (See note) Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For Mon Perform MS/MSD (Yes or No) Special Instructions/QC Requirements × 8015MOD_NM/8015NM_S_Prep (MOD) Full TPH Cooler Temperature(s) °C and Other Remarks × × × × × × × 8015MOD_Calc 300_ORGFM_28D/DI_LEACH Chloride × × × × × × × × 8021B/5035FP_Calc (MOD) BTEX Analysis Requested × × × × Total_BTEX_GCV State of Origin
New Mexico Carrier Tracking No(s) Date/Time Total Number of containers A - HCL B NaOH C - Zn Acetate D Nitric Acid E - NaHSO4 F MeOH G - Amchlor H Ascorbic Acid I Ice J DI Water K - EDTA L - EDA COC No: 890-2229 1 Preservation Codes: Page 1 of 1 390-5946-1 M - Hexane
N - None
O - As NaO2
P - Na2SO3
G - Na2SO3
R - Na2SO3
R - Na2SO3
T - TSP Dodecanydrate
U - Acetone
U - MCAA W - pH 4-5
Y - Trizma
Z other (sp Ver: 06/08/2021 other (specify)

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-5946-1 SDG Number: 03C1558311

Login Number: 5946 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	

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-5946-1

SDG Number: 03C1558311

Login Number: 5946
List Source: Eurofins Midland
List Number: 2
List Creation: 01/12/24 12:32 PM

Creator: Kramer, Jessica

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

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Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill Ensolum 601 N. Marienfeld St. Suite 400

Midland, Texas 79701

Generated 2/7/2024 3:19:50 PM

JOB DESCRIPTION

BIG EDDY UNIT 156 CS 03C1558311

JOB NUMBER

890-6024-1

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 2/7/2024 3:19:50 PM

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: BIG EDDY UNIT 156 CS
Laboratory Job ID: 890-6024-1
SDG: 03C1558311

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	8
QC Sample Results	9
QC Association Summary	13
Lab Chronicle	15
Certification Summary	16
Method Summary	17
Sample Summary	18
Chain of Custody	19
Receipt Checklists	21

9

5

7

9

10

12

13

Definitions/Glossary

Job ID: 890-6024-1 Client: Ensolum Project/Site: BIG EDDY UNIT 156 CS SDG: 03C1558311

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier **Qualifier Description** F1 MS and/or MSD recovery exceeds control limits. F2 MS/MSD RPD exceeds control limits Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

CNF

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

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

Decision Level Concentration (Radiochemistry) DLC

Contains No Free Liquid

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

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

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

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present PQL **Practical Quantitation Limit**

Presumptive **PRES** QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

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) TFO

TNTC Too Numerous To Count

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Case Narrative

Client: Ensolum Job ID: 890-6024-1

Project: BIG EDDY UNIT 156 CS

Job ID: 890-6024-1 Eurofins Carlsbad

Job Narrative 890-6024-1

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

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

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

Receipt

The samples were received on 1/24/2024 11:10 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.2°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: BH01 (890-6024-1) and BH01A (890-6024-2).

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-72108 and analytical batch 880-72370 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (890-6040-A-1-G MS). 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.

GC Semi VOA

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-71752 and analytical batch 880-72446 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

HPLC/IC

Released to Imaging: 2/16/2024 10:25:51 AM

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-71672 and analytical batch 880-71748 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

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Job ID: 890-6024-1

Client: Ensolum Project/Site: BIG EDDY UNIT 156 CS SDG: 03C1558311

Client Sample ID: BH01 Lab Sample ID: 890-6024-1 Matrix: Solid

Date Collected: 01/24/24 09:35 Date Received: 01/24/24 11:10

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		02/01/24 10:24	02/06/24 01:38	1
Toluene	< 0.00201	U	0.00201	mg/Kg		02/01/24 10:24	02/06/24 01:38	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		02/01/24 10:24	02/06/24 01:38	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		02/01/24 10:24	02/06/24 01:38	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		02/01/24 10:24	02/06/24 01:38	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		02/01/24 10:24	02/06/24 01:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130			02/01/24 10:24	02/06/24 01:38	1
1,4-Difluorobenzene (Surr)	116		70 - 130			02/01/24 10:24	02/06/24 01:38	1
Method: TAL SOP Total BTEX -	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			02/06/24 01:38	1
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)					
Method: SW846 8015 NM - Diese Analyte	Result	ics (DRO) (Qualifier	RL	Unit	D	Prepared	Analyzed	
Analyte		, ,,	•	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 02/07/24 03:04	Dil Fac
Analyte Total TPH	Result 56.1	Qualifier			<u>D</u>	Prepared		
Analyte Total TPH Method: SW846 8015B NM - Die	Result 56.1	Qualifier			<u>D</u>	Prepared Prepared		1
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics	Result 56.1	Qualifier nics (DRO) Qualifier	RL 50.3	mg/Kg			02/07/24 03:04	1
	Result 56.1 sel Range Orga	Qualifier nics (DRO) Qualifier	RL 50.3 (GC)	mg/Kg		Prepared	02/07/24 03:04 Analyzed	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result 56.1 Sel Range Orga Result < 50.3	Qualifier nics (DRO) Qualifier U	RL 50.3 (GC) RL 50.3	mg/Kg Unit mg/Kg		Prepared 01/27/24 21:45	02/07/24 03:04 Analyzed 02/07/24 03:04	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result 56.1 sel Range Orga Result < 50.3 56.1	Qualifier nics (DRO) Qualifier U	RL 50.3 (GC) RL 50.3 50.3	mg/Kg Unit mg/Kg mg/Kg		Prepared 01/27/24 21:45 01/27/24 21:45	02/07/24 03:04 Analyzed 02/07/24 03:04 02/07/24 03:04	1 Dil Fac 1 1
Analyte Total TPH Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result	Qualifier nics (DRO) Qualifier U	RL 50.3 (GC) RL 50.3 50.3 50.3	mg/Kg Unit mg/Kg mg/Kg		Prepared 01/27/24 21:45 01/27/24 21:45 01/27/24 21:45	02/07/24 03:04 Analyzed 02/07/24 03:04 02/07/24 03:04 02/07/24 03:04	Dil Fac 1 1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result	Qualifier nics (DRO) Qualifier U	RL 50.3 (GC) RL 50.3 50.3 50.3 Limits	mg/Kg Unit mg/Kg mg/Kg		Prepared 01/27/24 21:45 01/27/24 21:45 01/27/24 21:45 Prepared	02/07/24 03:04 Analyzed 02/07/24 03:04 02/07/24 03:04 02/07/24 03:04 Analyzed	1 Dil Fac 1 1 1 Dil Fac 2 1
Analyte Total TPH Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result	Qualifier nics (DRO) Qualifier U	RL 50.3 (GC) RL 50.3 50.3 50.3 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 01/27/24 21:45 01/27/24 21:45 01/27/24 21:45 Prepared 01/27/24 21:45	02/07/24 03:04 Analyzed 02/07/24 03:04 02/07/24 03:04 02/07/24 03:04 Analyzed 02/07/24 03:04	1 Dil Fac 1 1
Analyte Total TPH Method: SW846 8015B NM - Die: 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 nics (DRO) Qualifier U	RL 50.3 (GC) RL 50.3 50.3 50.3 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 01/27/24 21:45 01/27/24 21:45 01/27/24 21:45 Prepared 01/27/24 21:45	02/07/24 03:04 Analyzed 02/07/24 03:04 02/07/24 03:04 02/07/24 03:04 Analyzed 02/07/24 03:04	1 1 1 Dil Fac 1

Client Sample ID: BH01A Lab Sample ID: 890-6024-2

Date Collected: 01/24/24 09:40 Date Received: 01/24/24 11:10

Sample Depth: 1'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/01/24 10:24	02/06/24 02:05	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/01/24 10:24	02/06/24 02:05	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/01/24 10:24	02/06/24 02:05	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		02/01/24 10:24	02/06/24 02:05	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/01/24 10:24	02/06/24 02:05	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		02/01/24 10:24	02/06/24 02:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			02/01/24 10:24	02/06/24 02:05	

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Matrix: Solid

Client Sample Results

Client: Ensolum Job ID: 890-6024-1 Project/Site: BIG EDDY UNIT 156 CS SDG: 03C1558311

Client Sample ID: BH01A Lab Sample ID: 890-6024-2

Date Collected: 01/24/24 09:40 Date Received: 01/24/24 11:10

Result Qualifier

83.1

Matrix: Solid

Sample Depth: 1'

Analyte

Chloride

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	106		70 - 130			02/01/24 10:24	02/06/24 02:05	1
Method: TAL SOP Total BTEX - T	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			02/06/24 02:05	
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	67.3		50.3	mg/Kg			02/07/24 03:25	
Method: SW846 8015B NM - Dies	Result	Qualifier	RL	Unit	<u>D</u>	Prepared 04/07/04 04 45	Analyzed	Dil Fac
Analyte Gasoline Range Organics		Qualifier		Unit mg/Kg	<u>D</u>	Prepared 01/27/24 21:45	Analyzed 02/07/24 03:25	Dil Fac
Analyte	Result	Qualifier	RL		<u>D</u>			Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.3	Qualifier	RL 50.3	mg/Kg	<u>D</u>	01/27/24 21:45	02/07/24 03:25	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10	Result <50.3	Qualifier U	RL 50.3	mg/Kg	<u> </u>	01/27/24 21:45	02/07/24 03:25	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.3 67.3	Qualifier U	RL 50.3	mg/Kg	<u>D</u>	01/27/24 21:45 01/27/24 21:45	02/07/24 03:25	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <50.3 67.3 <50.3	Qualifier U	RL 50.3 50.3 50.3	mg/Kg	<u>D</u>	01/27/24 21:45 01/27/24 21:45 01/27/24 21:45	02/07/24 03:25 02/07/24 03:25 02/07/24 03:25	

5.04

Unit

mg/Kg

D

Prepared

Analyzed

01/31/24 21:15

Dil Fac

Surrogate Summary

Client: Ensolum Job ID: 890-6024-1
Project/Site: BIG EDDY UNIT 156 CS SDG: 03C1558311

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-6024-1	BH01	86	116	
890-6024-2	BH01A	119	106	
890-6040-A-1-G MS	Matrix Spike	52 S1-	117	
890-6040-A-1-H MSD	Matrix Spike Duplicate	128	100	
LCS 880-72108/1-A	Lab Control Sample	99	85	
LCSD 880-72108/2-A	Lab Control Sample Dup	117	87	
MB 880-72108/5-A	Method Blank	77	89	

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

		1001	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-6014-A-1-E MS	Matrix Spike	95	90
890-6014-A-1-F MSD	Matrix Spike Duplicate	82	75
890-6024-1	BH01	89	88
890-6024-2	BH01A	82	84
LCS 880-71752/2-A	Lab Control Sample	85	105
LCSD 880-71752/3-A	Lab Control Sample Dup	103	116
MB 880-71752/1-A	Method Blank	116	119

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Eurofins Carlsbad

Job ID: 890-6024-1 Client: Ensolum Project/Site: BIG EDDY UNIT 156 CS SDG: 03C1558311

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-72108/5-A

Matrix: Solid

Analysis Batch: 72370

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 72108

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/01/24 10:24	02/05/24 16:00	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/01/24 10:24	02/05/24 16:00	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/01/24 10:24	02/05/24 16:00	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		02/01/24 10:24	02/05/24 16:00	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/01/24 10:24	02/05/24 16:00	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/01/24 10:24	02/05/24 16:00	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepare	ed Analy	yzed Dil Fac
4-Bromofluorobenzene (Surr)	77		70 - 130	02/01/24	10:24 02/05/24	4 16:00 1
1,4-Difluorobenzene (Surr)	89		70 - 130	02/01/24	10:24 02/05/24	4 16:00 1

Lab Sample ID: LCS 880-72108/1-A

Matrix: Solid

Analysis Batch: 72370

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 72108

Spike LCS LCS Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.08845 mg/Kg 88 70 - 130 Toluene 0.100 0.08737 mg/Kg 87 70 - 130 0.100 Ethylbenzene 0.1017 mg/Kg 102 70 - 130 0.200 0.2212 111 70 - 130 m-Xylene & p-Xylene mg/Kg 0.100 0.1001 70 - 130 o-Xylene mg/Kg 100

LCS LCS

Surrogate	%Recovery Quality	fier Limits
4-Bromofluorobenzene (Surr)	99	70 - 130
1,4-Difluorobenzene (Surr)	85	70 - 130

Lab Sample ID: LCSD 880-72108/2-A

Matrix: Solid

Analysis Batch: 72370

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 72108

LCSD LCSD RPD Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits Limit Benzene 0.100 0.08422 mg/Kg 84 70 - 130 5 35 Toluene 0.100 0.08745 mg/Kg 87 70 - 130 0 35 Ethylbenzene 0.100 0.09607 mg/Kg 96 70 - 130 6 35 0.200 m-Xylene & p-Xylene 0.2054 mg/Kg 103 70 - 130 35 0.100 0.1185 o-Xylene mg/Kg 118 70 - 130 35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	117		70 - 130
1.4-Difluorobenzene (Surr)	87		70 - 130

Lab Sample ID: 890-6040-A-1-G MS

Matrix: Solid

Analysis Batch: 72370

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

Prep Batch: 72108

		Sample	Sample	Spike	MS	MS				%Rec	
	Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
	Benzene	<0.00200	U F1	0.0996	<0.00199	U F1	mg/Kg	_	0	70 - 130	
١	Toluene	<0.00200	U F1	0.0996	<0.00199	U F1	mg/Kg		0	70 - 130	

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Prep Batch: 72108

Prep Type: Total/NA

Client Sample ID: Matrix Spike Duplicate

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 71752

QC Sample Results

Client: Ensolum Job ID: 890-6024-1 SDG: 03C1558311 Project/Site: BIG EDDY UNIT 156 CS

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

Lab Sample ID: 890-6040-A-1-G MS Client Sample ID: Matrix Spike Prep Type: Total/NA

Matrix: Solid Analysis Batch: 72370

	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Ethylbenzene	<0.00200	U F1	0.0996	<0.00199	U F1	mg/Kg	_	0	70 - 130
m-Xylene & p-Xylene	<0.00401	U F1	0.199	<0.00398	U F1	mg/Kg		0	70 - 130
o-Xylene	<0.00200	U F1	0.0996	<0.00199	U F1	mg/Kg		0	70 - 130

70 - 130

MS MS Surrogate %Recovery Qualifier Limits 70 - 130 4-Bromofluorobenzene (Surr) 52 S1-

117

Lab Sample ID: 890-6040-A-1-H MSD

Matrix: Solid

1,4-Difluorobenzene (Surr)

Analysis Batch: 72370 Prep Batch: 72							72108				
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U F1	0.0990	0.08288		mg/Kg		84	70 - 130	NC	35
Toluene	<0.00200	U F1	0.0990	0.07669		mg/Kg		77	70 - 130	NC	35
Ethylbenzene	<0.00200	U F1	0.0990	0.07929		mg/Kg		80	70 - 130	NC	35
m-Xylene & p-Xylene	<0.00401	U F1	0.198	0.1539		mg/Kg		78	70 - 130	NC	35
o-Xylene	<0.00200	U F1	0.0990	0.09176		mg/Kg		93	70 - 130	NC	35

MSD MSD Surrogate Qualifier Limits %Recovery 70 - 130 4-Bromofluorobenzene (Surr) 128 1,4-Difluorobenzene (Surr) 100 70 - 130

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

Lab Sample ID: MB 880-71752/1-A

Matrix: Solid

Analysis Batch: 72446

	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		01/27/24 21:45	02/06/24 18:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/27/24 21:45	02/06/24 18:36	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/27/24 21:45	02/06/24 18:36	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130	01/27/24 21:45	02/06/24 18:36	1
o-Terphenyl	119		70 - 130	01/27/24 21:45	02/06/24 18:36	1

Lab Sample ID: LCS 880-71752/2-A

Analysis Batch: 72446

Matrix: Solid

Allalysis Batch. 12440		
	Spike	L

Analysis Batch: 72446							Prep	Batch: 71752
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	917.7		mg/Kg		92	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	932.5		mg/Kg		93	70 - 130	
C10-C28)								

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Prep Type: Total/NA

Job ID: 890-6024-1 Client: Ensolum Project/Site: BIG EDDY UNIT 156 CS SDG: 03C1558311

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

LCS LCS

Lab Sample ID: LCS 880-71752/2-A **Client Sample ID: Lab Control Sample**

Matrix: Solid

Analysis Batch: 72446

Prep Type: Total/NA

Prep Batch: 71752

Prep Type: Total/NA

Prep Type: Total/NA

17

20

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 85 70 - 130 o-Terphenyl 105 70 - 130

Lab Sample ID: LCSD 880-71752/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 72446

Prep Type: Total/NA Prep Batch: 71752

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit 1000 961.9 96 70 - 1305 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 961.8 96 mg/Kg 70 - 1303 20

C10-C28)

LCSD LCSD Surrogate %Recovery Qualifier Limits 103 70 - 130 1-Chlorooctane 116 70 - 130 o-Terphenyl

Lab Sample ID: 890-6014-A-1-E MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 72446 Prep Batch: 71752 Sample Sample Spike MS MS

Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits Gasoline Range Organics <50.3 U F1 F2 1010 840.0 mg/Kg 79 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over 115 F1 1010 864.2 mg/Kg 74 70 - 130 C10-C28)

MS MS %Recovery Qualifier Surrogate Limits 70 - 130 1-Chlorooctane 95 o-Terphenyl 90 70 - 130

Lab Sample ID: 890-6014-A-1-F MSD Client Sample ID: Matrix Spike Duplicate

Analysis Batch: 72446

Prep Batch: 71752 Sample Sample MSD MSD RPD Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits **RPD** Limit U F1 F2 1010 681.4 F1 F2 63 Gasoline Range Organics <50.3 70 - 130 21 20 mg/Kg (GRO)-C6-C10

726.4 F1

mg/Kg

61

70 - 130

1010

Diesel Range Organics (Over

C10-C28)

Matrix: Solid

MSD MSD %Recovery Qualifier Surrogate Limits 82

1-Chlorooctane 70 - 130 75 70 - 130 o-Terphenyl

115 F1

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Job ID: 890-6024-1 Client: Ensolum Project/Site: BIG EDDY UNIT 156 CS

SDG: 03C1558311

Client Sample ID: Method Blank

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-71672/1-A

Matrix: Solid

Analysis Batch: 71748

Prep Type: Soluble

MB MB

Dil Fac Analyte Result Qualifier RL Unit D Prepared Analyzed Chloride <5.00 U 5.00 mg/Kg 01/31/24 20:45

Lab Sample ID: LCS 880-71672/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 71748

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 274.3 mg/Kg 110 90 - 110

Lab Sample ID: LCSD 880-71672/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 71748

LCSD LCSD %Rec RPD Spike Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 272.7 90 - 110 mg/Kg 109

Lab Sample ID: 890-6024-1 MS Client Sample ID: BH01 **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 71748

Spike MS MS %Rec Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits 481.8 F1 Chloride 181 F1 250 120 90 - 110 mg/Kg

Lab Sample ID: 890-6024-1 MSD

Matrix: Solid

Analysis Batch: 71748

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 181 F1 250 483.9 F1 mg/Kg 121 90 - 110 20

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Client Sample ID: BH01

Prep Type: Soluble

QC Association Summary

Client: Ensolum Job ID: 890-6024-1
Project/Site: BIG EDDY UNIT 156 CS SDG: 03C1558311

GC VOA

Prep Batch: 72108

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6024-1	BH01	Total/NA	Solid	5035	
890-6024-2	BH01A	Total/NA	Solid	5035	
MB 880-72108/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-72108/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-72108/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-6040-A-1-G MS	Matrix Spike	Total/NA	Solid	5035	
890-6040-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 72370

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6024-1	BH01	Total/NA	Solid	8021B	72108
890-6024-2	BH01A	Total/NA	Solid	8021B	72108
MB 880-72108/5-A	Method Blank	Total/NA	Solid	8021B	72108
LCS 880-72108/1-A	Lab Control Sample	Total/NA	Solid	8021B	72108
LCSD 880-72108/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	72108
890-6040-A-1-G MS	Matrix Spike	Total/NA	Solid	8021B	72108
890-6040-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	72108

Analysis Batch: 72528

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6024-1	BH01	Total/NA	Solid	Total BTEX	
890-6024-2	BH01A	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 71752

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6024-1	BH01	Total/NA	Solid	8015NM Prep	
890-6024-2	BH01A	Total/NA	Solid	8015NM Prep	
MB 880-71752/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-71752/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-71752/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-6014-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-6014-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 72446

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6024-1	BH01	Total/NA	Solid	8015B NM	71752
890-6024-2	BH01A	Total/NA	Solid	8015B NM	71752
MB 880-71752/1-A	Method Blank	Total/NA	Solid	8015B NM	71752
LCS 880-71752/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	71752
LCSD 880-71752/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	71752
890-6014-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	71752
890-6014-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	71752

Analysis Batch: 72594

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6024-1	BH01	Total/NA	Solid	8015 NM	
890-6024-2	BH01A	Total/NA	Solid	8015 NM	

Eurofins Carlsbad

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QC Association Summary

Client: Ensolum
Project/Site: BIG EDDY UNIT 156 CS
Job ID: 890-6024-1
SDG: 03C1558311

HPLC/IC

Leach Batch: 71672

Lab Sample ID 890-6024-1	Client Sample ID BH01	Prep Type Soluble	Matrix Solid	Method DI Leach	Prep Batch
890-6024-2	BH01A	Soluble	Solid	DI Leach	
MB 880-71672/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-71672/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-71672/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-6024-1 MS	BH01	Soluble	Solid	DI Leach	
890-6024-1 MSD	BH01	Soluble	Solid	DI Leach	

Analysis Batch: 71748

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6024-1	BH01	Soluble	Solid	300.0	71672
890-6024-2	BH01A	Soluble	Solid	300.0	71672
MB 880-71672/1-A	Method Blank	Soluble	Solid	300.0	71672
LCS 880-71672/2-A	Lab Control Sample	Soluble	Solid	300.0	71672
LCSD 880-71672/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	71672
890-6024-1 MS	BH01	Soluble	Solid	300.0	71672
890-6024-1 MSD	BH01	Soluble	Solid	300.0	71672

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Project/Site: BIG EDDY UNIT 156 CS

Job ID: 890-6024-1

SDG: 03C1558311

Client Sample ID: BH01

Client: Ensolum

Lab Sample ID: 890-6024-1

Matrix: Solid

Date Collected: 01/24/24 09:35 Date Received: 01/24/24 11:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	72108	02/01/24 10:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72370	02/06/24 01:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72528	02/06/24 01:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			72594	02/07/24 03:04	SM	EET MID
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	71752	01/27/24 21:45	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72446	02/07/24 03:04	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	71672	01/26/24 09:00	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	71748	01/31/24 21:00	CH	EET MID

Client Sample ID: BH01A Lab Sample ID: 890-6024-2

Date Collected: 01/24/24 09:40 Matrix: Solid Date Received: 01/24/24 11:10

	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	72108	02/01/24 10:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72370	02/06/24 02:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72528	02/06/24 02:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			72594	02/07/24 03:25	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	71752	01/27/24 21:45	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72446	02/07/24 03:25	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	71672	01/26/24 09:00	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	71748	01/31/24 21:15	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: BIG EDDY UNIT 156 CS
Job ID: 890-6024-1
SDG: 03C1558311

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	Р	T104704400-23-26	06-30-24
υ,	are included in this report, bu	it the laboratory is not certif	fied by the governing authority. This lis	t may include analytes
Analysis Method	Prep Method	Matrix	Analyte	
8015 NM		Solid	Total TPH	
Total BTEX		Solid	Total BTEX	

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Method Summary

Client: Ensolum Job ID: 890-6024-1 Project/Site: BIG EDDY UNIT 156 CS

SDG: 03C1558311

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

Eurofins Carlsbad

Sample Summary

Client: Ensolum

Project/Site: BIG EDDY UNIT 156 CS

Job ID: 890-6024-1

SDG: 03C1558311

0001000011	

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Dept
890-6024-1	BH01	Solid	01/24/24 09:35	01/24/24 11:10	0.5'
890-6024-2	BH01A	Solid	01/24/24 09:40	01/24/24 11:10	1'

	Page 1 of 1	nments	nfields		PST/UST TRRP Level IV	Other:	Preservative Codes	None: NO DI Water: H ₂ O	Cool: Cool MeOH: Me		H ₂ SO ₄ : H ₂ NaOH: Na	H ₃ PO ₄ : HP	Na.S.O.S. NaSO	Zn Acetate+NaOH: Zn	NaOH+Ascorbic Acid: SAPC	·Sample Comments	1	Manny 2374026	00701700070	Cost Center:	1082491001	mpbert seeds of wm. com			TI Sn U V Zn /7470 /7471		Date/Time			Revised Date: 08/25/2020 Rev. 2020.2
Work Order No:	www.xenco.com	Work Order Comments	Program: UST/PST PRP Brownfields		evel Level	Deliverables: EDD ADaPT	QUEST							2								2			Se Ag SiO ₂ Na Sr Hg: 1631 / 245.1		ure) Received by: (Signature)			
Cnain of CustOdy Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	0	Garrett Green	0	SID4 E Greene St	Carisbac	Gensolum. Lam	ANALYSIS REQUEST						(3			140 140	, x								i II AI SD AS Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo N : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag TI U	Xenco, its affiliates and subcontractors. It assigns standard ten incurred by the client if such losses are due to circumstances bo fins Xenco, but not analyzed. These terms will be enforced unle	Date/Time Relinquished by: (Signature)	113	4 0	
Houston, TX (Midland, TX (432 EL Paso, TX (91 Hobbs, NM (57		Bill to: (if different)	Company Name:	Address:	City, State ZIP:	bbctill	Turn Around	Rush Code		day received by ived by 4:30pm	t	1 -2	10	1,0	0.2	Depth Grab/ # of		-						ODCOA 12DM T. 444 ALCL A D. D. D. D.	P 6010 : 8RCRA Sb	from client company to Eurofins bility for any losses or expenses each sample submitted to Euro	0'	1/2		
eurofins Environment Testing Xenco	3	Ben Betiti	Ensolum, LLC	1 Parks Hwy	38220	184 - 954 - 0852 Email:	BIG EDDY WNIT 156 CS	r: 03(1558311 PRoutine	32.41236,-104.064507	TAT starts the day received by the lab, if received by 4:30pm	Town Slank: Voc No	Yes No Thermometer ID:	Yes No N/A) Correction Factor:	Yes No N/A Temperature Reading:	Corrected Temperature;	Sample Identification Matrix Sampled Sampled	\$ 1/24/24 0925	V 00140						200 0 7 6020	Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affisiates 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. Aminimum change of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	Relinquished by: (Signature)	8 CM (V) 831/4		
: 61		Project Manager:	Company Name:	Address:	City, State ZIP:	Phone:	Project Name:	Project Number:	Project Location:	Sampler's Name: PO #:	SAMPLE RECEIPT	Samples Received Intact:	Cooler Custody Seals:	Sample Custody Seals:	Total Containers:	Sample	BHOI	BHOIA					1	Total 2007 / 6010	Circle Method	Notice: Signature of thi of service. Eurofins Xer of Eurofins Xenco. A mi	Relinquished	ANO.	20	

Relinguished by: (Signature)	Notice: Signature of this docur of service. Eurofins Xenco will of Eurofins Xenco. A minimum	Circle Method(s) a	Total 200.7 / 6010	1							BHOIA	8H01	none identification	Comple Identifi	Total Containers:	Sample Custody Seals.	Cooler Custody Seals:	Samples Received Intact:	SAMPLE RECEIPT	PO #:		Project Location.	Project Number	Project Name:	Phone	City, State ZIP:	Address.	Company Name:	Project Manager					
Signature) Releived h	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.	analyzed	200.8 / 6020-								+	S 1/24/24 0935	Matrix		<u></u>	Yes No N/A Temperature Reading:	Yes No (N/A)	(Yes No	Jamp Wank: Yes) No	1	Meredith Roberts	32.41236, -104.064507 Due Date:	0301558311	BIG EDDY WNIT 156 CS	789. 854.0852	Carlsbad, NM 80220	1 Parks	mm, LLC	Ben Belin		\$2500 ES. ()			
eived hv: (Signature)	valld purchase order from client co assume any responsibility for any and a charge of \$5 for each sample	TCLP / SPLP 6010:	RRCRA 13DDM Tovas								0940 11	0935 0.5	Depth	-	emperature O. 2	e Reading: O,1		er ID: TMO	Wet Ice: Yes No	the lab, if received by 4:30	TAT starts the day received by	Due Date:	Routine Rush	Turn Around	Email.	City, State ZIP.	Hwy Address.	Company Name	Bill to: (if different)					
Date/Time	ompany to Eurofins Xenco, its affilia r losses or expenses incurred by the e submitted to Eurofins Xenco, but t	8 -	11 Al Sh As Ba Ba B Cd Ca								+ + + +	S - XX	Cont 15		= X	d	Pa		_	_	by		Pres. Code		bibenille ensolum. com	zip: Caris	3104			TODOS, NM (5/5) 988-3199	EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296	Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334	Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300	Chain of Custody
Belinquished by: (Signature)	tes and subcontractors. It assigns s client if such losses are due to circu not analyzed. These terms will be en	Cd Cr Co Cu Pb Mn	S Cd Ca Cr Co Cu Fa Dh							√ \$ P		<i>X</i>		-p										ANALY	lum. Lam	arisbad, NM	m		Garrett Green	risbad, NM (5/5) 988-3199	bbock, TX (806) 794-1296	Antonio, TX (210) 509-3334	Dallas, TX (214) 902-0300	Custody
/· (Signature)	standard terms and conditions imstances beyond the control inforced unless previously negotiate	Mo Ni Se Ag TI U	Ph Ma Ma Ma Ni K Se													4								ANALYSIS REQUEST	Deliverables:	Reporting. L	State of Project:	Program:		4509				
Received by (Signature)	ed.	нд: 1631 / 245.1	An SiO. Na Sr																						EDD ADaPT	Reporting. Level II Level III F	a. A	UST/PST ☐ PRP☐ Brov	Work Order Comments	890-6024 Chair or Carry				
) Date/Time		/7470 /7471	TI Sn 1 V Zn				mpbects@ensolvm.usm	~~	COST CENTER:		NAPP23332402S5	Incident #	-Sample Comments	redu .	NaOH+Ascorbic Acid: SAPC	Zn Acetate+NaOH Zn	Na ₂ S ₂ O ₃ , NaSO ₃	NaHSO 4 NABIS	H,PO , HP	2			None NO DI Water: H ₂ O	Preservative Codes	ग □ Other	PST/UST TRRP Level IV	*	Brownfields ☐ RRC ☐ Superfund ☐	mments	Page 1 of 1	I IIII IIII IIII IIII IIII IIII IIII IIII			
	2/1//2	024	 10	25	<i></i> #	اسنسا	3	 ا		1	P	age	e 2	0 (of 2	2									!				L	I		2/7/	′20)24

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-6024-1 SDG Number: 03C1558311

Login Number: 6024 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	

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-6024-1 SDG Number: 03C1558311

Login Number: 6024 **List Source: Eurofins Midland** List Number: 2 List Creation: 01/25/24 02:46 PM

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	

<6mm (1/4").



APPENDIX F

NMOCD Notifications

Green, Garrett J

From: Green, Garrett J

Sent: Wednesday, November 22, 2023 7:47 AM

To: Enviro, OCD, EMNRD
Cc: DelawareSpills /SM

Subject: XTO 48 Hour Liner Inspection notification

Follow Up Flag: Follow up Flag Status: Flagged

Good morning,

This is sent as a 48-hour notification, XTO is scheduled to inspect the lined containment at BEU 156 released on (11/17/2023), on Monday, November 27, 2023, at 11:00am MST. A 24 hour release notification was not sent since the release was less than 25 barrels in volume. Please call us with any questions or concerns.

GPS Coordinates: (32.412360,-104.064507)

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

Collins, Melanie

From: OCDOnline@state.nm.us

Sent: Tuesday, November 28, 2023 12:11 PM

To: Collins, Melanie

Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID:

288895

External Email - Think Before You Click

To whom it may concern (c/o Melanie Collins for XTO ENERGY, INC),

The OCD has accepted the submitted *Notification of a release* (NOR), for incident ID (n#) nAPP2333240255, with the following conditions:

• When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.

Please reference nAPP2333240255, on all subsequent C-141 submissions and communications regarding the remediation of this release.

NOTE: As of December 2019, NMOCD has discontinued the use of the "RP" number.

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

ocd.enviro@state.nm.us

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

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 314989

QUESTIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	314989
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2333240255
Incident Name	NAPP2333240255 BIG EDDY UNIT 156 COMPRESSOR STATION @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received

Location of Release Source	
Please answer all the questions in this group.	
Site Name	BIG EDDY UNIT 156 COMPRESSOR STATION
Date Release Discovered	11/17/2023
Surface Owner	Federal

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure Pump Produced Water Released: 5 BBL Recovered: 5 BBL Lost: 0 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Cause: Equipment Failure Pump Lube Oil Released: 5 BBL Recovered: 5 BBL Lost: 0 BBL.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Pegasus 805 Ultra

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170 District IV

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 314989

1220 S. St Francis Dr., Santa Fe, NM 8/505 Phone:(505) 476-3470 Fax:(505) 476-3462	
QUESTI	ONS (continued)
Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380 Action Number: 314989 Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)
QUESTIONS	
Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported) No, according to supplied volumes this does not appear to be a "gas or	
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
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 of led 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 asses 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

Name: Garrett Green Title: SHE Coordinator

Email: garrett.green@exxonmobil.com

Released to Imaging: 2/16/2024 10:25:51 AM

I hereby agree and sign off to the above statement

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS, Page 3

Action 314989

QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	314989
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 51 and 75 (ft.)
What method was used to determine the depth to ground water	OCD Imaging Records Lookup
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 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 1000 (ft.) and ½ (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan		
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
Requesting a remediation plan approval with this submission	Yes	
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.		
Have the lateral and vertical extents of contamination been fully delineated	Yes	
Was this release entirely contained within a lined containment area	Yes	
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.		
On what estimated date will the remediation commence	01/24/2024	
On what date will (or did) the final sampling or liner inspection occur	01/24/2024	
On what date will (or was) the remediation complete(d)	01/24/2024	
What is the estimated surface area (in square feet) that will be remediated	0	
What is the estimated volume (in cubic yards) that will be remediated	0	
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.		

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

District I

1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 **District II**

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 **District III**

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3470 Fax: (505) 476-3462 State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS, Page 4

Action 314989

QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	314989
	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.)	
Is (or was) there affected material present needing to be removed	No
Is (or was) there a power wash of the lined containment area (to be) performed	Yes
OTHER (Non-listed remedial process) Not answered.	
Per Subsection B of 19 15 29 11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19 15 29 12 NMAC.	

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.

Name: Garrett Green
Title: SHE Coordinator
Title: SHE Coordinator

Email: garrett.green@exxonmobil.com

Date: 02/15/2024

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

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Phone: (575) 393-6161 Fax: (575) 393-0720 District II

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1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170 **District IV**

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

QUESTIONS, Page 6

Action 314989

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462	a Fe, NM 8/505
QUEST	IONS (continued)
Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380 Action Number: 314989 Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)
QUESTIONS	
Liner Inspection Information	
Last liner inspection notification (C-141L) recorded	{Unavailable.}
Was all the impacted materials removed from the liner	Unavailable.
Remediation Closure Request Only answer the questions in this group if seeking remediation closure for this release because all releases to the Requesting a remediation closure approval with this submission	
Have the lateral and vertical extents of contamination been fully delineated	Yes Yes
Was this release entirely contained within a lined containment area	Yes
What was the total surface area (in square feet) remediated	0
What was the total volume (cubic yards) remediated	0
Summarize any additional remediation activities not included by answers (above)	N/A
	Lictosure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of the control of th
to report and/or file certain release notifications and perform corrective actions for releate the OCD does not relieve the operator of liability should their operations have failed to water, human health or the environment. In addition, OCD acceptance of a C-141 report	knowledge and understand that pursuant to OCD rules and regulations all operators are required asses 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 rt does not relieve the operator of responsibility for compliance with any other federal, state, or tially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed ing notification to the OCD when reclamation and re-vegetation are complete.

I hereby agree and sign off to the above statement

Name: Garrett Green

Title: SHE Coordinator

Email: garrett.green@exxonmobil.com

Date: 02/15/2024

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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**

CONDITIONS

Action 314989

CONDITIONS

Operator:	OGRID:	
XTO ENERGY, INC	5380	
6401 Holiday Hill Road	Action Number:	
Midland, TX 79707	314989	
	Action Type:	
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

CONDITIONS

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