REVIEWED

By NVelez at 8:41 am, Apr 24, 2025

Continue monthly O&M schedule as stated in the system adjustments and recommendations section of report.
 Submit next quarterly report by July 15, 2025.

March 25, 2025

New Mexico Oil Conservation Division

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

Re: First Quarter 2025 – Solar SVE System Update

James Ranch Unit #10 Battery
Eddy County, New Mexico
XTO Energy, Inc.

NMOCD Incident Numbers NAB1535754357, NAB1521257588, and NAB1904653072

To Whom it May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc. (XTO), presents this *First Quarter 2025 - Solar SVE System Update* report summarizing the solar soil vapor extraction (SVE) system performance at the James Ranch Unit #10 Battery (Site), located in Unit H, Section 1, Township 23 South, Range 30 East in Eddy County, New Mexico (Figure 1). The SVE system has operated since May 27, 2022, to remediate residual subsurface soil impacts at the Site. This report summarizes Site activities performed in January and March of 2025 for the New Mexico Oil Conservation Division (NMOCD).

SVE SYSTEM SPECIFICATIONS

Currently, a VariSun Direct Solar SVE system is installed at the Site. This system consists of a 6.2 horsepower (HP) Pentair SST65 high efficiency regenerative blower capable of producing 250 cubic feet per minute (cfm) flow and a vacuum of 110 inches of water column (IWC). The system is powered by 12, 415-watt solar modules capable of producing 5 kilowatts (KW) of electricity. A motor controller automatically starts the system as soon as sunlight is available and increases the electrical output to the blower as solar power increases throughout the day.

Ten SVE wells (SVE01 through SVE06 and SVE-PT-01 through SVE-PT-04) are currently installed at the Site, as depicted on Figure 2. In order to target total petroleum hydrocarbons (TPH) and benzene, toluene, ethylbenzene, and total xylenes (BTEX) soil impacts at different depth intervals, the screened intervals of the SVE wells were installed in shallow, medium, and deep zones. Specifically, SVE wells SVE01, SVE02, SVE03, and SVE04 target shallow zone impacts and are screened at depths between 5 feet and 20 feet below ground surface (bgs). SVE wells SVE-PT-02, SVE-PT-03, and SVE-PT-04 target medium zone impacts and are screened between 15 feet and 30 feet bgs. SVE wells SVE05, SVE06, and SVE-PT-01 target deep zone impacts and are screened at depths between 25 feet and 65 feet bgs.

SUMMARY OF SVE OPERATIONS

During the first quarter of 2025, Ensolum personnel performed routine operation and maintenance (O&M) visits to verify that the system was operating as designed and to perform any required

Ensolum, LLC | Environmental, Engineering & Hydrogeologic Consultants 776 East 2nd Ave | Durango, CO 81301 | **ensolum.com**

maintenance. In accordance with the approved *Revised Remediation Work Plan – SVE System* prepared by LT Environmental, Inc. (LTE, dated October 30, 2019), O&M inspections were performed in January and March of 2025 during this time period. A February 2025 O&M visit could not be conducted. Field notes taken during O&M visits are included as Appendix A.

During the first quarter of 2025, vapor extraction was applied to all SVE wells except for SVE03 and SVE06 (as recommended in the Second Quarter 2023 - Solar SVE System Update) to remove hydrocarbon impacts from the impacted zones at the Site. Between December 11, 2024, and March 12, 2025, approximately 851 total hours of nominal daylight were available for the solar SVE system to operate. Available nominal daylight hours are based on estimates by the National Oceanic and Atmospheric Administration's (NOAA's) National Weather Service (NWS) for the Site location. Between these dates, the recorded runtime for the system based on the hour meter reading was 543.6 hours, equating to a runtime efficiency of 63.9 percent (%). Runtime for solar SVE systems can be less than the nominal hours due to cloud cover or other adverse weather preventing sufficient sunlight to generate electrical energy through solar conversion. No off alarms were noted on the system telemetry throughout the guarter and the system was running upon arrival at each visit; however, the hour meter ceased operation on February 19, 2025. During the March 12, 2025, O&M event, the system was briefly shut down and subsequently restarted. Following the restart, the hour meter and associated telemetry output resumed normal operation. Table 1 presents the SVE system runtime compared to nominal available daylight hours per month.

VAPOR SAMPLING RESULTS

A first quarter 2025 vapor sample was collected on March 12, 2025. The vapor sample was collected from a sample port located between the SVE piping manifold and the SVE blower using a high vacuum air sampler. Prior to collection, the vapor sample was field screened with a photoionization detector (PID) for organic vapor monitoring (OVM). The vapor sample was collected directly into two 1-Liter Tedlar® bags and submitted to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico for analysis of total volatile petroleum hydrocarbons (TVPH – also known as TPH – gasoline range organics (GRO)) and BTEX following Environmental Protection Agency (EPA) Method 8260C.

TVPH concentrations account for the majority contaminant mass and system emissions, with a result of 378 micrograms per liter (μ g/L). In comparison, individual BTEX constituent concentrations ranged from below the laboratory reporting limits up to 23.0 μ g/L in the first quarter of 2025. Table 2 presents a summary of TVPH and BTEX analytical data collected during the sampling events, with the full laboratory analytical reports included in Appendix B.

Vapor sample data and measured stack flow rates are used to estimate total mass recovered and total emissions generated by the SVE system (Table 2). Based on these estimates, approximately 19,236 pounds (9.62 tons) of TVPH have been removed by the system to date.

SYSTEM ADJUSTMENTS AND RECOMMENDATIONS

During the second quarter of 2025, Ensolum personnel will discontinue extraction from well SVE02 as the PID readings from extraction well SVE02 are significantly lower than the readings from the remaining active extraction wells. Adjustments to system operation will continue to be made in order to maximize mass removal.

Monthly O&M visits will continue to be performed by Ensolum personnel to verify the SVE system is operating within normal working ranges (i.e., temperature, pressure, and vacuum). Deviations from regular operations will be noted on field logs and included in the following update report.



XTO will continue operating the SVE system until TVPH concentrations decrease to below 1,000 μ g/L for several consecutive quarters following additional system optimization efforts and/or asymptotic conditions are observed. At that time, an evaluation of residual petroleum hydrocarbons will be assessed and further recommendations for remedial actions, if any, will be provided to the NMOCD.

We appreciate the opportunity to provide this report to the NMOCD. If you should have any questions or comments regarding this report, please contact the undersigned.

Sincerely, **Ensolum, LLC**

Stuart Hyde Senior Managing Geologist (970) 903-1607 shyde@ensolum.com Daniel R. Moir Senior Managing Geologist (303) 887-2946 dmoir@ensolum.com

Attachments:

Figure 1 Site Location Map

Figure 2 SVE System Configuration

Table 1 Soil Vapor Extraction System Runtime Calculations

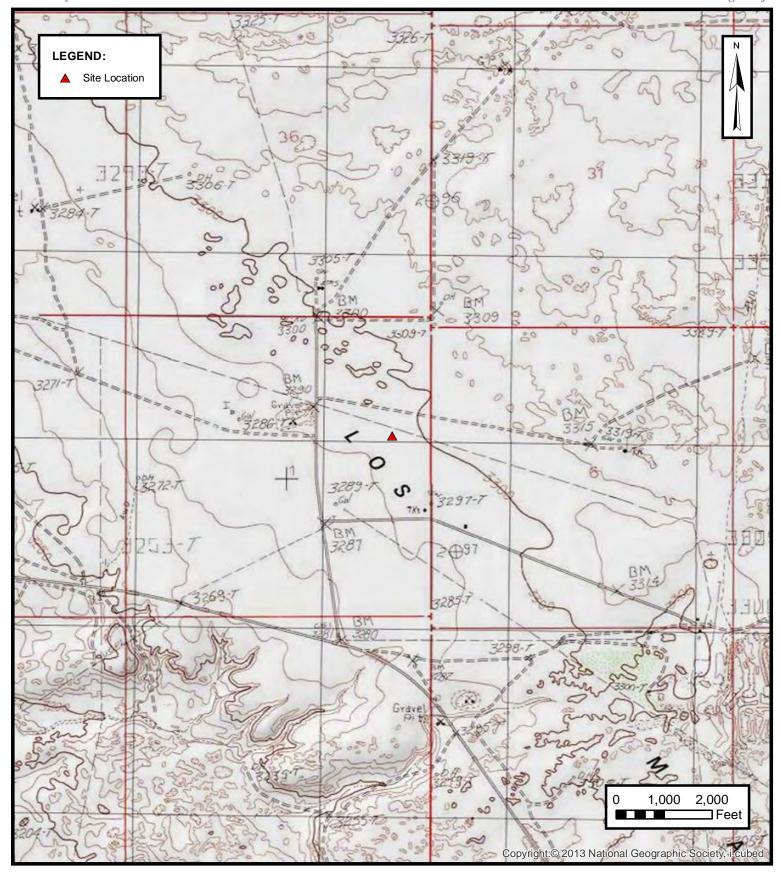
Table 2 Soil Vapor Extraction System Mass Removal and Emissions

Appendix A Field Notes

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



FIGURES



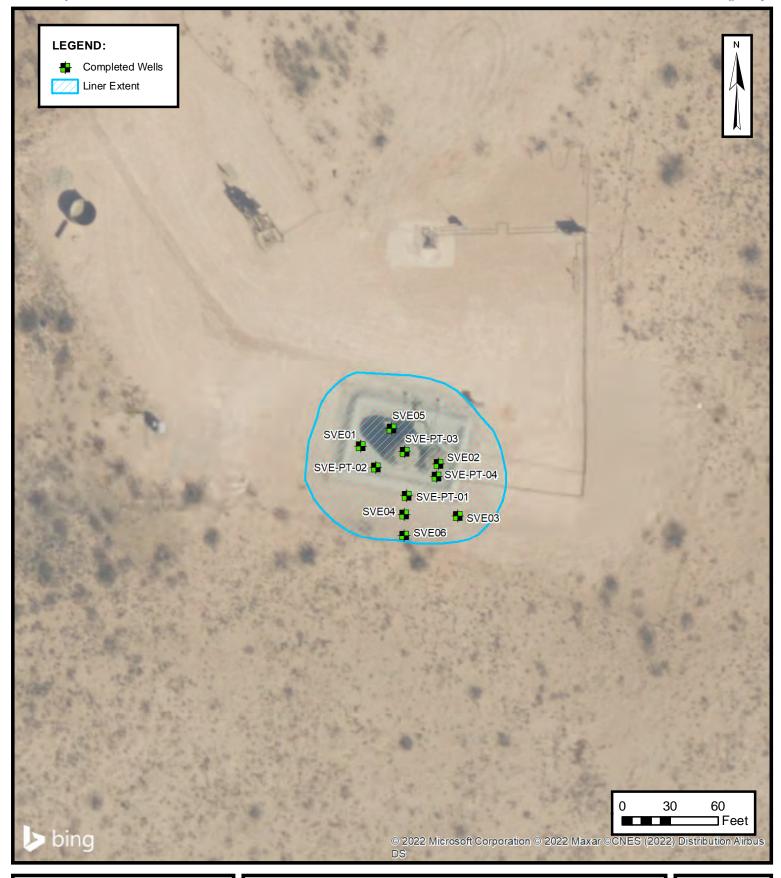


SITE LOCATION MAP

XTO ENERGY, INC
JAMES RANCH UNIT #10 BATTERY
Unit H, Sec 1, T23S, R30E
Eddy County, New Mexico

FIGURE

1





SVE SYSTEM CONFIGURATION

XTO ENERGY, INC JAMES RANCH UNIT #10 BATTERY Unit H, Sec 1, T23S, R30E Eddy County, New Mexico **FIGURE**

2



TABLES



TABLE 1 SOIL VAPOR EXTRACTION SYSTEM RUNTIME CALCULATIONS

James Ranch Unit #10 Battery XTO Energy Eddy County, New Mexico

Date	Runtime Meter Hours	Delta Hours	
12/11/2024	9,567.0		
3/12/2025	10,110.6	543.6	

Time Period	December 11 to December 31, 2024	January 1 through January 31, 2025	February 1 through February 28, 2025	March 1 through March 12, 2025
Days	19	31	28	11
Avg. Nominal Daylight Hours	9	9	10	11
Available Runtime Hours	171	279	280	121

Quarterly Available Daylight Runtime Hours 851
Quarterly Runtime Hours 543.6
Quarterly % Runtime 63.9%

Month	Days	Nominal Daylight Hours	Total Month Hours
January	31	9	279
February	28	10	280
March	31	11	341
April	30	12	360
May	31	13	403
June	30	14	420
July	31	14	434
August	31	13	403
September	30	12	360
October	31	11	341
November	30	10	300
December	31	9	279

Ensolum 1 of 1



TABLE 2 SOIL VAPOR EXTRACTION SYSTEM MASS REMOVAL AND EMISSIONS James Ranch Unit #10 Battery XTO Energy Eddy County, New Mexico

Laboratory Analytical Results

	Laboratory Analytical Results						
Date	PID (ppm)	Benzene (μg/L)	Toluene (μg/L)	Ethylbenzene (μg/L)	Total Xylenes (μg/L)	TVPH (μg/L)	
5/27/2022*	679	12.6	40.5	10.0	34.6	12,500	
6/8/2022*	901	21.0	210	9.90	434	35,000	
6/20/2022*	960	21.2	199	10	225	20,200	
7/18/2022*	535	17.1	138	11.1	252	14,400	
8/15/2022*	987	50.0	135	50.0	227	12,300	
9/19/2022	380	10.0	54.9	10.0	110	4,830	
12/19/2022	337	10.0	27.7	10.0	47.1	3,030	
3/15/2023	245	10.0	25.2	10.0	29.4	1,630	
6/14/2023	323	10.0	29.2	10.0	54.9	2,180	
9/20/2023	611	10.0	43.4	10.0	106	5,210	
12/14/2023	278	10.0	30.3	10.0	78.4	3,820	
3/13/2024	358	10.0	29.0	10.0	80.8	2,900	
7/2/2024	260	10.0	16.9	10.0	29.5	870	
9/12/2024	391	10.0	17.4	10.0	36.7	841	
12/11/2024	168	10.0	11.6	10.0	24.4	455	
3/12/2025	235	10.0	10.0	10.0	23.0	378	
Average	478	14.5	64	12.6	112	7,534	

Flow and Vapor Extraction Summary

			1 IOW all	a vapor Extraction S	ullillary			
Date	Flow Rate (cfm) ⁽¹⁾	Total System Flow (cf)	Delta Flow (cf)	Benzene (lb/hr)	Toluene (lb/hr)	Ethylbenzene (lb/hr)	Total Xylenes (lb/hr)	TVPH (lb/hr)
5/27/2022	140	0		-		-		-
6/8/2022	113	1,046,154	1,046,154	0.00710	0.0529	0.00421	0.0990	10.0
6/20/2022	105	2,047,854	1,001,700	0.00829	0.0803	0.00391	0.129	10.8
7/18/2022	70	3,572,454	1,524,600	0.00501	0.0441	0.00276	0.0624	4.53
8/15/2022	98	5,656,098	2,083,644	0.0123	0.0501	0.0112	0.0879	4.90
9/19/2022	138	8,742,054	3,085,956	0.0155	0.0490	0.0155	0.0870	4.42
12/19/2022	150	15,449,754	6,707,700	0.00561	0.0232	0.00561	0.0441	2.20
3/15/2023	141	21,230,472	5,780,718	0.00527	0.0139	0.00527	0.0202	1.23
6/14/2023	132	29,220,168	7,989,696	0.00494	0.0134	0.00494	0.0208	0.940
9/20/2023	132	38,728,920	9,508,752	0.00494	0.0179	0.00494	0.0397	1.82
12/14/2023	149	45,377,598	6,648,678	0.00557	0.0205	0.00557	0.0514	2.52
3/13/2024 ⁽²⁾	133	50,950,830	5,573,232	0.00497	0.0147	0.00497	0.0396	1.67
7/2/2024	146	62,898,594	11,947,764	0.00546	0.0125	0.00546	0.0301	1.03
9/12/2024	149	70,953,534	8,054,940	0.00557	0.0096	0.00557	0.0184	0.48
12/11/2024	162	78,914,214	7,960,680	0.00606	0.0088	0.00606	0.0185	0.39
3/12/2025	145	83,643,534	4,729,320	0.00542	0.0059	0.00542	0.0129	0.23
			Average	0.00680	0.0278	0.00609	0.0508	3.15

Mass Removal and Emissions Summary

				iovai aliu Lillissiolis	·,			
Date	Total SVE System Hours	Delta Hours	Benzene (pounds)	Toluene (pounds)	Ethylbenzene (pounds)	Total Xylenes (pounds)	TVPH (pounds)	TVPH (tons)
5/27/2022	0	0				-		-
6/8/2022	154	154	1.10	8.17	0.649	15.3	1,549	0.774
6/20/2022	313	159	1.32	12.8	0.621	20.6	1,723	0.862
7/18/2022	676	363	1.82	16.0	1.00	22.7	1,644	0.822
8/15/2022	1,030	354	4.36	17.7	3.97	31.1	1,734	0.867
9/19/2022	1,403	373	5.77	18.3	5.77	32.4	1,648	0.824
12/19/2022	2,148	745	4.18	17.3	4.18	32.8	1,643	0.822
3/15/2023	2,832	683	3.60	9.5	3.60	13.8	840	0.420
6/14/2023	3,840	1,009	4.98	13.5	4.98	21.0	949	0.474
9/20/2023	5,041	1,201	5.93	21.5	5.93	47.7	2,190	1.10
12/14/2023	5,785	744	4.14	15.3	4.14	38.2	1,871	0.936
3/13/2024	6,483	698	3.47	10.3	3.47	27.7	1,167	0.584
7/2/2024	7,847	1,364	7.45	17.1	7.45	41.1	1,404	0.702
9/12/2024	8,748	901	5.02	8.6	5.02	16.6	430	0.215
12/11/2024	9,567	819	4.96	7.2	4.96	15.2	322	0.161
3/12/2025	10,111	544	2.95	3.2	2.95	7.0	123	0.061
	Total Mas	ss Recovery to Date	61.1	196.5	58.7	383	19,236	9.62

Notes:

(1): average flow calculated from telemetry data beginning 9/21/2023

(2): flow rate for 3/13/2024 calcs based on January and February telemetry plus March site visit due to telemetry issues

cf: cubic feet

cfm: cubic feet per minute

μg/L: micrograms per liter

lb/hr: pounds per hour

--: not sampled

PID: photoionization detector

ppm: parts per million

SVE: soil vapor extraction

TVPH: total volatile petroleum hydrocarbons

gray: laboratory reporting limit used for calculating emissions

*: analytical results differ from those reported in the August 23, 2022 "Solar SVE System Update" due to



APPENDIX A

Field Notes

Page 11 of 29 Received by OCD: 3/31/2025 3:22:08 PM

Date 1-20-25 Location Project / Client _______ & _____ JRU 10 SNE on site, system running, sunny Runtimo: 9845has Moin Voe: 44 in H.C Flor: 150 cm CinH2C 03 P103 33 34 01 POZ 13:50 offsit.

Released to Imaging: 4/24/2025 8:49:53 AM

Rite in the Rain

3-12pag 212 of 29 Received by OCD: 3/31/2025 3:22:08 PM TRU 10 SVE Sitely: Clarksunny, lish wind 9:40 Ion sife + JSA, system running Runtime: 10,110.6 hr Main Vac: 39 in H20 Flow: 149.5 cfm (PIO 1972) 234.9 Influent all wells: Effluent all wells: 136.5 (ToH20) Vells: NE 02 292.2 32 SUE PTO4 3009 SUE TO 1 32 NA NA SUE03 SVEOS 32 31 5,69.3 SUEPTO3 614 SVEOI 280.5 31 SVE04 112.6 32 SUE06 NA NA 33 137.8 SVEAPO2 10:00 Madel 21LTeldor bas from Influent all wells. 10:45 offsite Released to Imaging: 4/24/2025 8:49:53 AM



APPENDIX B

Laboratory Analytical Reports & Chain-of-Custody Documentation

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Stuart Hyde Ensolum

601 N. Marienfeld St.

Suite 400

Midland, Texas 79701

Generated 3/13/2025 4:16:47 PM

JOB DESCRIPTION

James Ranch Unit #10 03C1558041 Rural Eddy, NM

JOB NUMBER

890-7803-1

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

Brianna Tel

Generated 3/13/2025 4:16:47 PM

Authorized for release by Brianna Teel, Project Manager Brianna.Teel@et.eurofinsus.com Designee for Jessica Kramer, Project Manager Jessica.Kramer@et.eurofinsus.com (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: James Ranch Unit #10 03C1558041 Laboratory Job ID: 890-7803-1 SDG: Rural Eddy, NM

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Definitions/Glossary

Job ID: 890-7803-1 Client: Ensolum Project/Site: James Ranch Unit #10 03C1558041 SDG: Rural Eddy, NM

Qualifiers

GC/MS VOA

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
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor

DL

Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

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

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

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

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 **Quality Control** QC

RER Relative Error Ratio (Radiochemistry)

RLReporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

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

Too Numerous To Count **TNTC**

Case Narrative

Client: Ensolum Job ID: 890-7803-1

Project: James Ranch Unit #10 03C1558041

Job ID: 890-7803-1 Eurofins Carlsbad

Job Narrative 890-7803-1

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 and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided 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 sample was received on 3/12/2025 12:24 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice.

Gasoline Range Organics

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

GC/MS VOA

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

Eurofins Carlsbad

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Matrix: Air

Lab Sample ID: 890-7803-1

Client Sample Results

Client: Ensolum Job ID: 890-7803-1 Project/Site: James Ranch Unit #10 03C1558041 SDG: Rural Eddy, NM

Client Sample ID: INFLUENT ALL WELLS

Date Collected: 03/12/25 10:00 Date Received: 03/12/25 12:24

Sample Container: Tedlar Bag 1L

Method: SW846 8260C GR	O - Volatile Org	anic Com	pounds (GC/MS	S)				
Analyte	_	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	378000		50000	ug/m3			03/13/25 15:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		60 - 140				03/13/25 15:10	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<10000	U	10000	ug/m3			03/13/25 15:10	1
Toluene	<10000	U	10000	ug/m3			03/13/25 15:10	1
Ethylbenzene	<10000	U	10000	ug/m3			03/13/25 15:10	1
m,p-Xylenes	23000		20000	ug/m3			03/13/25 15:10	1
o-Xylene	<10000	U	10000	ug/m3			03/13/25 15:10	1
Xylenes, Total	23000		20000	ug/m3			03/13/25 15:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 135				03/13/25 15:10	1

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Surrogate Summary

Client: Ensolum

Job ID: 890-7803-1 Project/Site: James Ranch Unit #10 03C1558041 SDG: Rural Eddy, NM

Method: 8260C - Volatile Organic Compounds (GCMS)

Matrix: Air Prep Type: Total/NA

			Percent Surrogate Recovery (Acceptance Limits)
		BFB	
Lab Sample ID	Client Sample ID	(70-135)	
890-7803-1	INFLUENT ALL WELLS	104	
LCS 860-222186/3	Lab Control Sample	100	
LCSD 860-222186/4	Lab Control Sample Dup	99	
MB 860-222186/7	Method Blank	101	
Surrogate Legend			
BFB = 4-Bromofluorob	penzene (Surr)		

Method: 8260C GRO - Volatile Organic Compounds (GC/MS)

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

			Percent Surrogate Recovery (Acceptance Limits)
		BFB	
Lab Sample ID	Client Sample ID	(60-140)	
890-7803-1	INFLUENT ALL WELLS	102	
LCS 860-222185/4	Lab Control Sample	100	
LCSD 860-222185/5	Lab Control Sample Dup	102	
MB 860-222185/7	Method Blank	98	

BFB = 4-Bromofluorobenzene (Surr)

Client: Ensolum

Project/Site: James Ranch Unit #10 03C1558041

Job ID: 890-7803-1

SDG: Rural Eddy, NM

Method: 8260C - Volatile Organic Compounds (GCMS)

Lab Sample ID: MB 860-222186/7

Matrix: Air

Analysis Batch: 222186

Client Sample ID: Method Blank

Prep Type: Total/NA

	МВ	МВ						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<10000	U	10000	ug/m3			03/13/25 14:47	1
Toluene	<10000	U	10000	ug/m3			03/13/25 14:47	1
Ethylbenzene	<10000	U	10000	ug/m3			03/13/25 14:47	1
m,p-Xylenes	<20000	U	20000	ug/m3			03/13/25 14:47	1
o-Xylene	<10000	U	10000	ug/m3			03/13/25 14:47	1
Xylenes, Total	<20000	U	20000	ug/m3			03/13/25 14:47	1
	MR	MR						

MB MB

Surrogate Qualifier Limits Prepared Dil Fac %Recovery Analyzed 70 - 135 4-Bromofluorobenzene (Surr) 03/13/25 14:47 101

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 860-222186/3

Matrix: Air

Analysis Batch: 222186

Prep Type: Total/NA

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	50000	46940		ug/m3		94	70 - 125	
Toluene	50000	48410		ug/m3		97	70 - 125	
Ethylbenzene	50000	51850		ug/m3		104	70 - 125	
m,p-Xylenes	50000	52710		ug/m3		105	70 - 125	
o-Xylene	50000	54000		ug/m3		108	70 - 125	

LCS LCS

%Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 70 - 135 100

Lab Sample ID: LCSD 860-222186/4 **Client Sample ID: Lab Control Sample Dup** Prep Type: Total/NA

Matrix: Air

Analysis Batch: 222186

7 man 7 0.0 2 a 0.0 m 2 2 2 0 0	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	50000	45180		ug/m3		90	70 - 125	4	35
Toluene	50000	46930		ug/m3		94	70 - 125	3	35
Ethylbenzene	50000	49450		ug/m3		99	70 - 125	5	35
m,p-Xylenes	50000	50550		ug/m3		101	70 - 125	4	35
o-Xylene	50000	51730		ug/m3		103	70 - 125	4	35

LCSD LCSD

%Recovery Qualifier Surrogate Limits 70 - 135 4-Bromofluorobenzene (Surr)

Method: 8260C GRO - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 860-222185/7 Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Air

Analysis Batch: 222185

MB MB RL Analyte Result Qualifier Unit D Prepared Analyzed Dil Fac Gasoline Range Organics <50000 U 50000 ug/m3 03/13/25 14:24

QC Sample Results

Client: Ensolum Job ID: 890-7803-1 Project/Site: James Ranch Unit #10 03C1558041 SDG: Rural Eddy, NM

Method: 8260C GRO - Volatile Organic Compounds (GC/MS) (Continued)

MB MB

Lab Sample ID: MB 860-222185/7 **Matrix: Air**

Analysis Batch: 222185

Client Sample ID: Method Blank

Prep Type: Total/NA

%Recovery Qualifier Limits Dil Fac Surrogate Prepared Analyzed 03/13/25 14:24 4-Bromofluorobenzene (Surr) 98 60 - 140

Lab Sample ID: LCS 860-222185/4 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA Matrix: Air

Analysis Batch: 222185

Spike LCS LCS %Rec Added Result Qualifier Limits Analyte Unit D %Rec 500000 57 - 134 Gasoline Range Organics 456100 ug/m3 91

LCS LCS Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 60 - 140 100

Lab Sample ID: LCSD 860-222185/5 Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA **Matrix: Air**

Analysis Batch: 222185

LCSD LCSD RPD Spike %Rec **Analyte** Added Result Qualifier Unit D %Rec Limits RPD Limit 500000 487800 98 57 - 134 Gasoline Range Organics ug/m3 35

LCSD LCSD Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 102 60 - 140

QC Association Summary

Client: Ensolum Project/Site: James Ranch Unit #10 03C1558041 Job ID: 890-7803-1

SDG: Rural Eddy, NM

GC/MS VOA

Analysis Batch: 222185

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7803-1	INFLUENT ALL WELLS	Total/NA	Air	8260C GRO	
MB 860-222185/7	Method Blank	Total/NA	Air	8260C GRO	
LCS 860-222185/4	Lab Control Sample	Total/NA	Air	8260C GRO	
LCSD 860-222185/5	Lab Control Sample Dup	Total/NA	Air	8260C GRO	

Analysis Batch: 222186

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7803-1	INFLUENT ALL WELLS	Total/NA	Air	8260C	
MB 860-222186/7	Method Blank	Total/NA	Air	8260C	
LCS 860-222186/3	Lab Control Sample	Total/NA	Air	8260C	
LCSD 860-222186/4	Lab Control Sample Dup	Total/NA	Air	8260C	

Lab Chronicle

Client: Ensolum Project/Site: James Ranch Unit #10 03C1558041 Job ID: 890-7803-1

SDG: Rural Eddy, NM

Client Sample ID: INFLUENT ALL WELLS

Lab Sample ID: 890-7803-1

Date Collected: 03/12/25 10:00 Date Received: 03/12/25 12:24 Matrix: Air

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	222186	03/13/25 15:10	KLV	EET HOU
Total/NA	Analysis	8260C GRO		1	5 mL	5 mL	222185	03/13/25 15:10	KLV	EET HOU

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: Ensolum Project/Site: James Ranch Unit #10 03C1558041 Job ID: 890-7803-1

SDG: Rural Eddy, NM

Laboratory: Eurofins Houston

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

Authority	Pro	gram	Identification Number	Expiration Date
Texas	NEL	_AP	T104704215	07-01-26
,			not certified by the governing authori	ity. This list may include analytes
Analysis Method	does not offer certificati Prep Method	Matrix	Analyte	
8260C		Air	Benzene	
8260C		Air	Ethylbenzene	
8260C		Air	m,p-Xylenes	
8260C		Air	o-Xylene	
8260C		Air	Toluene	
8260C		Air	Xylenes, Total	
8260C GRO		Air	Gasoline Range Organics	

Method Summary

Client: Ensolum

Project/Site: James Ranch Unit #10 03C1558041

Job ID: 890-7803-1

SDG: Rural Eddy, NM

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds (GCMS)	SW846	EET HOU
8260C GRO	Volatile Organic Compounds (GC/MS)	SW846	EET HOU
5030C	Collection/Prep Tedlar Bag (P&T)	SW846	EET HOU

Protocol References:

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

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Sample Summary

Client: Ensolum

Project/Site: James Ranch Unit #10 03C1558041

Job ID: 890-7803-1

SDG: Rural Eddy, NM

Lab Sample ID Client Sample ID Received Matrix Collected 890-7803-1 INFLUENT ALL WELLS 03/12/25 10:00 03/12/25 12:24 Air

Xenco Job #:

80-355-0900)

El Paso, TX (915-585-3438 by
ed Page 28 of 29 Remarks Shipping Information Xenco Job #: Phoenix, Arizona (480-355-0900) Special Requests/Instructions: Collected 2-1 Liter Tedlar bags.

Bill to: Amy Ruth, XTO Energy, Inc., Address: 3104 E. Green St. Carlsbad, NM **Analysis Requested** Page 890-7803 Chain of Custody FedEx AIR SAMPLING CHAIN OF CUSTODY UPS Midland, TX (432-704-5251) BTEX(8021) Same Day (2108)HGV15) Need By: San Antonio, Texas (210-509-3334) Pressure ("Hg) Lab Sampling Equipment Information Incoming Canister Requested TAT do12 (gH") 3 Day □ 2 Day 1 Day Lubbock, TX (806-794-1296) Canister Pressure in field That2 (gH") Canister Pressure in field Flow Regulator ID Contract TAT 7 Day Canister ID Stafford, Texas (281-240-4200) AIR A = AmbientSV = Soil Vapor S l = Indoor Dallas, Texas (214-902-0300) Stop Time 000 (3) Received By: 2) Received By (4) Received By: alche Stop Date Ph.No.: 337-257-8307 Client/Project Information Start Time 10:00 Project Name & No.: James Ranch Unit #10, 03C1558041 Cost Center: 1135831001 AFE: EW.2019.03368.EXP.01 Setting the Standard since 1990 3-12-25 Start Date Date/Time Date/Time Date/Time Field ID/Point of Collection Lono/WM Site Location: Rural Eddy, NM Project Contact: Stuart Hyde Email: shyde@ensolum.com Influent All Wells Company Name: Ensolum (1) Relinquished By: (2) Relinquished By: (3) Relinquished By: (4) Relinquished By: Sampler(s): #ap#

3/13/2025

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

General Information Phone: (505) 629-6116

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

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

CONDITIONS

Action 447401

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	447401
	Action Type:
	[REPORT] Alternative Remediation Report (C-141AR)

CONDITIONS

Created By	Condition	Condition Date
nvelez	1. Continue monthly O&M schedule as stated in the system adjustments and recommendations section of report. 2. Submit next quarterly report by July 15, 2025.	4/24/2025