REVIEWED

By NVelez at 3:13 pm, Aug 18, 2025

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

2025.

July 15, 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: Second Quarter 2025 – Solar SVE System Update

James Ranch Unit #10 Battery
Eddy County, New Mexico
XTO Energy, Inc.
NMOCD Incident Numbers NAB1535754357, NAB15212

NMOCD Incident Numbers NAB1535754357, NAB1521257588, and NAB1904653072

To Whom it May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc. (XTO), presents this *Second 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 April, May, and June of 2025 for the New Mexico Oil Conservation Division (NMOCD).

SVE SYSTEM SPECIFICATIONS

A VariSun Direct Solar SVE system is installed at the Site and 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 second 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 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 monthly this time period. Field notes taken during O&M visits are included as Appendix A.

On June 16, 2025, an O&M technician was driving by the Site and observed the SVE system disconnected from the anchors and flipped upside down, landing on the faces of the solar panels, likely due to recent high wind events. Upon further inspection, it was determined the existing system would no longer be operational without significant repairs and/or modifications to prevent similar incidents from occurring in the future. The SVE system was removed from the Site for storage at a nearby XTO yard. Photographs of the SVE system post-wind event are provided as Appendix B.

During April 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. In May 2025, extraction well SVE02 was taken offline due to low photoionization detector (PID) readings at that location during recent O&M events.

Between March 12 and June 13, 2025, approximately 1,141 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 1,125.4 hours, equating to a runtime efficiency of 98.6 percent (%). All downtime was the result of system damage following the June storm event. Table 1 presents the SVE system runtime compared to nominal available daylight hours per month.

VAPOR SAMPLING RESULTS

A second quarter 2025 vapor sample was collected on June 13, 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 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 718 micrograms per liter (μ g/L). In comparison, individual BTEX constituent concentrations ranged from below the laboratory reporting limits up to 38.8 μ g/L in the second 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 19,600 pounds (9.80 tons) of TVPH have been removed by the system to date.



Page 3

SYSTEM ADJUSTMENTS AND RECOMMENDATIONS

Due to the recent wind event in June 2025 that damaged the solar-powered SVE system beyond immediate repair, XTO is considering potential actions to be taken at the Site including, but not limited to, conducting confirmation soil sampling to assess the efficacy of the system and for potential Site closure, reinstallation of a solar-powered SVE system with additional anchoring systems to prevent future damage, or an assessment of alternative techniques to remediate remaining Site impacts. XTO will update the NMOCD in the third quarter 2025 report of any actions taken between July and September 2025. Additionally, an *Updated Remediation Work Plan* will be submitted to the NMOCD for review and approval if an alternate remedial technology is proposed for the Site.

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, PG (Licensed in WY, TX & WA) Senior Managing Geologist (970) 903-1607

shyde@ensolum.com

Daniel R. Moir, PG (Licensed in WY & TX)
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

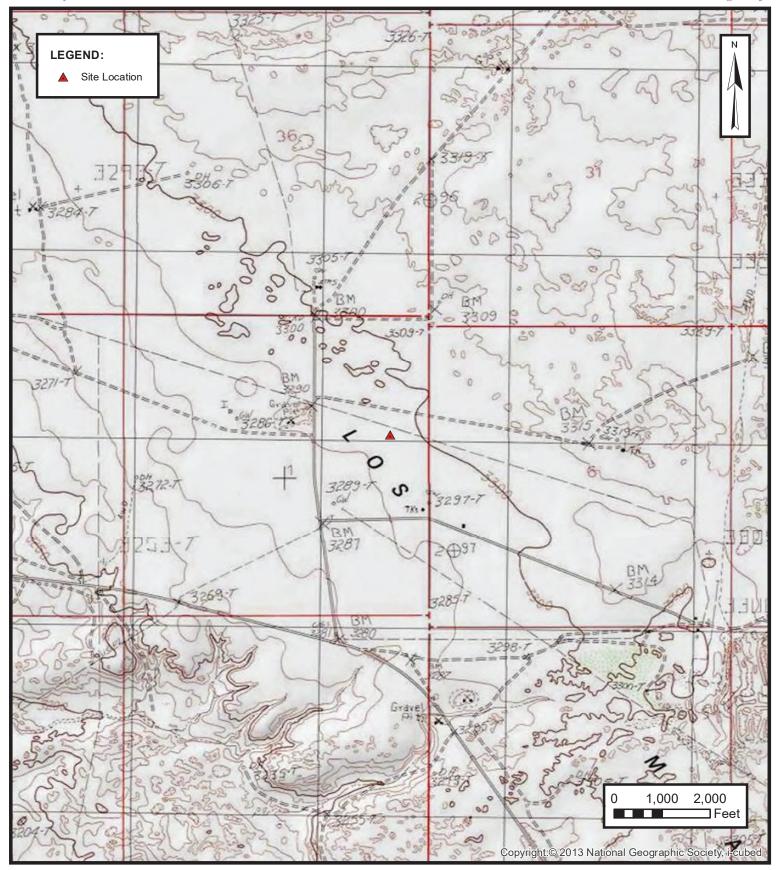
Appendix B Project Photographs

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





FIGURES

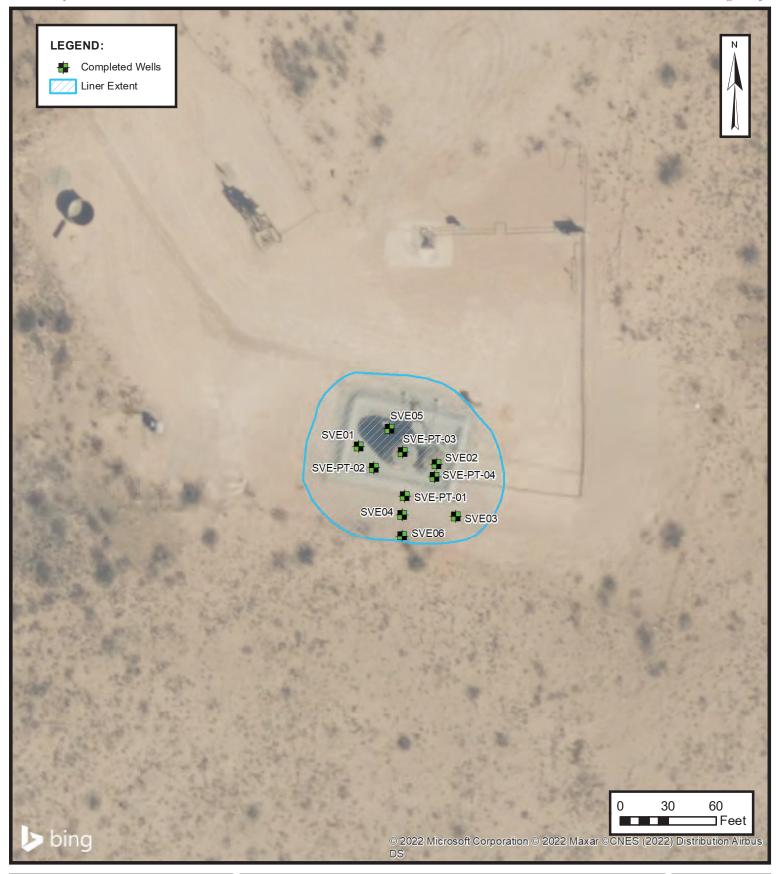




SITE LOCATION MAP

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, R30F

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		
3/12/2025	10,110.6			
6/13/2025	11,236.0	1,125.4		

Time Period	March 12 through March 31, 2025	April 1 through April 30, 2025	May 1 through May 30, 2025	June 1 through June 13, 2025
Days	19	30	30	13
Avg. Nominal Daylight Hours	11	12	13	14
Available Runtime Hours	209	360	390	182

Quarterly Available Daylight Runtime Hours 1,141
Quarterly Runtime Hours 1,125.4

Quarterly % Runtime 98.6%

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

		Lube	ratory Analytical Re	Suits		
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
6/13/2025	233	10.0	13.1	10.0	36.8	718
Average	464	14.2	61	12.4	108	7,133

Flow and Vapor Extraction Summary

Flow and vapor extraction Summary										
Date	ate 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		
6/13/2025	158	94,312,326	10,668,792	0.00591	0.0068	0.00591	0.0177	0.32		
			Average	0.00675	0.0265	0.00608	0.0487	2.97		

Mass Removal and Emissions Summary

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
6/13/2025	11,236	1,125	6.65	7.7	6.65	19.9	364	0.182
	Total Ma	ss Recovery to Date	67.7	204.1	65.4	403	19,600	9.80

(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 unit conversion errors



APPENDIX A

Field Notes

Received by 00007/21/2025 10:32:44 1143 C Page 11 of 34 4-16-25 18:00 onson John umo 95°F Main Vac 30 into Flow 12/4 cfm (inH20) W 2 (5° 22 02 24 PT04 20 101 NA volvo closed 037 24 21 23 05 PTOB 01 04 M/A volve closed 06 25 PTOZ 16:30 offsto Released to Imaging: 8/18/2025 3:24:10 PM

Location _ Project / C					5				Da	te _	5-16	-2	5	_ 2
Project / C	lient _	/\	110									<u></u>	/	-
9:30	30	<a< td=""><td>,<u> </u></td><td>+53</td><td>Λ</td><td></td><td>5</td><td>. 4</td><td>2</td><td>-</td><td>m</td><td></td><td></td><td>akz</td></a<>	, <u> </u>	+53	Λ		5	. 4	2	-	m			akz
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6-13 Page 13 of 34 Received by OCD; \$212025 10:82:144 AM 1 CW on site Sunny 97 & system running, Ko tonk Dy 11:30 Man Vac: 36 (intt20) & [240 expected intell sunlight Rintime: 11,236(hv.) Flow: 124 (ofm) (PTD ppm) Effluent all webs: 96.9 Frefrent all wells: 233.3 Sample collected 11:55 Wells (PID ppm) (in HOD) 2 x 1 L Tedler bas Volve closed 276 2,338 Volve closed 02 30 POTOY PT0] 03 419 28 05 Pto 3 77.9 01 27 04 Valvo closed 06 30 72,9 PT02 12:15 photographed dames to solor pomals 12:30 offsite to turn in somits to everofine. WA



APPENDIX B

Project Photographs

PROJECT PHOTOGRAPHS

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

Photograph 1

SVE System Post-Storm June 16, 2025 at 9:56 AM



Photograph 2

SVE System Post-Storm June 16, 2025 at 9:54 AM





APPENDIX C

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 6/16/2025 7:28:25 PM

JOB DESCRIPTION

James Ranch Unit #10 03C1558041 Rural Eddy, NM

JOB NUMBER

890-8291-1

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 6/16/2025 7:28:25 PM

Authorized for release by Jessica Kramer, Project Manager <u>Jessica.Kramer@et.eurofinsus.com</u> (432)704-5440 2

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Client: Ensolum Project/Site: James Ranch Unit #10 03C1558041 Laboratory Job ID: 890-8291-1 SDG: Rural Eddy, NM

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	7
QC Sample Results	8
QC Association Summary	10
Lab Chronicle	11
Certification Summary	12
Method Summary	13
Sample Summary	14
Chain of Custody	15
Receint Checklists	16

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Definitions/Glossary

Client: Ensolum Job ID: 890-8291-1 Project/Site: James Ranch Unit #10 03C1558041 SDG: Rural Eddy, NM

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Qualifiers

GC/MS VOA

NEG

POS

PQL

QC RER

RL RPD

TEF

TEQ

TNTC

PRES

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)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)

Eurofins Carlsbad

Negative / Absent

Positive / Present

Presumptive **Quality Control**

Practical Quantitation Limit

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

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

Case Narrative

Client: Ensolum Job ID: 890-8291-1

Project: James Ranch Unit #10 03C1558041

Job ID: 890-8291-1 Eurofins Carlsbad

Job Narrative 890-8291-1

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 6/13/2025 1:02 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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Client Sample Results

Client: Ensolum Job ID: 890-8291-1 Project/Site: James Ranch Unit #10 03C1558041 SDG: Rural Eddy, NM

Client Sample ID: INFLUENT ALL WELLS

Date Collected: 06/13/25 11:55 Date Received: 06/13/25 13:02

Sample Container: Tedlar Bag 1L

Lab Sample	ID:	890-8291-1
------------	-----	------------

Matrix: Air

Method: SW846 8260C GRO - Vo	latile Organic	Compound	s (GC/MS)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	716000		50000	ug/m3			06/14/25 16:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		60 - 140		-		06/14/25 16:16	1

7 10000		30000	ug/mo			00/14/23 10.10	
%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
104		60 - 140		-		06/14/25 16:16	1
Organic Comp	ounds (GC	MS)					
Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
<10000	U	10000	ug/m3			06/14/25 15:27	1
13100		10000	ug/m3			06/14/25 15:27	1
<10000	U	10000	ug/m3			06/14/25 15:27	1
35600		20000	ug/m3			06/14/25 15:27	1
<10000	U	10000	ug/m3			06/14/25 15:27	1
35600		20000	ug/m3			06/14/25 15:27	1
%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
102		70 - 135		-	-	06/14/25 15:27	1
	### Recovery 104 Drganic Comp Result <10000 13100 <10000 <10000 <10000 35600 <10000 35600 #### Recovery	%Recovery Qualifier 104 Organic Compounds (GC) Result Qualifier <10000	%Recovery Qualifier Limits 104 60 - 140 Drganic Compounds (GCMS) Result Result Qualifier RL <10000	%Recovery Qualifier Limits 104 60 - 140 Organic Compounds (GCMS) Unit Result Qualifier RL Unit <10000	%Recovery Qualifier Limits 104 60 - 140 Organic Compounds (GCMS) Unit Result Qualifier RL Unit D <10000	%Recovery Qualifier Limits Prepared 104 60 - 140 0 - 140 Organic Compounds (GCMS) Unit D Result Qualifier RL Unit D Prepared <10000	%Recovery Qualifier Limits Prepared Analyzed 06/14/25 16:16 06/14/25 16:16 06/14/25 16:16 Organic Compounds (GCMS) Compounds CCMS Result Qualifier RL Unit D Prepared Analyzed <10000 U

Surrogate Summary

Client: Ensolum Job ID: 890-8291-1 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)	
390-8291-1	INFLUENT ALL WELLS	102	
LCS 860-242513/3	Lab Control Sample	99	
LCSD 860-242513/4	Lab Control Sample Dup	99	
MB 860-242513/6	Method Blank	95	
Surrogate Legend			
BFB = 4-Bromofluorobe	enzene (Surr)		

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

Matrix: Air Prep Type: Total/NA

			Percent Surrogate Recovery (Acceptance Limits)
		BFB	
Lab Sample ID	Client Sample ID	(60-140)	
890-8291-1	INFLUENT ALL WELLS	104	
LCS 860-242493/1010	Lab Control Sample	102	
LCSD 860-242493/11	Lab Control Sample Dup	101	
MB 860-242493/13	Method Blank	98	
Surrogate Legend			

BFB = 4-Bromofluorobenzene (Surr)

Eurofins Carlsbad

QC Sample Results

Job ID: 890-8291-1 Client: Ensolum Project/Site: James Ranch Unit #10 03C1558041 SDG: Rural Eddy, NM

Method: 8260C - Volatile Organic Compounds (GCMS)

Lab Sample ID: MB 860-242513/6

Matrix: Air

Analysis Batch: 242513

Client	Sample	ID:	Meth	od	В	la	n	k
	_		_	_				_

Prep Type: Total/NA

MB MB Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Benzene <10000 U 10000 ug/m3 06/14/25 15:03 Toluene <10000 U 10000 ug/m3 06/14/25 15:03 Ethylbenzene <10000 U 10000 ug/m3 06/14/25 15:03 m,p-Xylenes <20000 20000 ug/m3 06/14/25 15:03 <10000 U 10000 ug/m3 06/14/25 15:03 o-Xylene <20000 U Xylenes, Total 20000 ug/m3 06/14/25 15:03

MB MB %Recovery Qualifier Limits Dil Fac Surrogate Prepared Analyzed 70 - 135 4-Bromofluorobenzene (Surr) 06/14/25 15:03 95

Lab Sample ID: LCS 860-242513/3 Client Sample ID: Lab Control Sample Matrix: Air Prep Type: Total/NA

Analysis Batch: 242513

LCS LCS %Rec Spike Analyte Added Result Qualifier Unit D %Rec Limits Benzene 50000 41060 ug/m3 82 70 - 125 Toluene 50000 49090 ug/m3 98 70 - 125 Ethylbenzene 50000 51300 ug/m3 103 70 - 125 50000 52300 ug/m3 105 70 - 125 m,p-Xylenes 50000 o-Xylene 52280 ug/m3 105 70 - 125

LCS LCS Qualifier Limits Surrogate %Recovery 4-Bromofluorobenzene (Surr) 99 70 - 135

Lab Sample ID: LCSD 860-242513/4

Matrix: Air

Analysis Batch: 242513

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

LCSD LCSD Spike %Rec **RPD** Analyte Added Result Qualifier Unit D %Rec Limits **RPD** Limit 50000 42120 84 70 - 125 35 Benzene ug/m3 3 Toluene 50000 50150 ug/m3 100 70 - 125 2 35 Ethylbenzene 50000 52580 ug/m3 105 70 - 125 35 m,p-Xylenes 50000 52810 ug/m3 106 70 - 125 35 50000 52700 ug/m3 105 70 - 125 o-Xylene 35

LCSD LCSD %Recovery Qualifier Surrogate Limits 4-Bromofluorobenzene (Surr) 99 70 - 135

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

Lab Sample ID: MB 860-242493/13 Client Sample ID: Method Blank

Matrix: Air

Analysis Batch: 242493

MB MB Analyte Result Qualifier RI Unit D Prepared Analyzed Dil Fac Gasoline Range Organics <50000 50000 ug/m3 06/14/25 15:53

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Prep Type: Total/NA

QC Sample Results

Client: Ensolum Job ID: 890-8291-1 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 860-242493/13 Matrix: Air

Analysis Batch: 242493

4-Bromofluorobenzene (Surr)

Prep Type: Total/NA

Client Sample ID: Method Blank

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 98 60 - 140 06/14/25 15:53

Lab Sample ID: LCS 860-242493/1010 Client Sample ID: Lab Control Sample Matrix: Air Prep Type: Total/NA

Analysis Batch: 242493 Spike LCS LCS %Rec

Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 500000 523700 ug/m3 105 57 - 134

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

Lab Sample ID: LCSD 860-242493/11 Client Sample ID: Lab Control Sample Dup Matrix: Air Prep Type: Total/NA

Analysis Batch: 242493 Spike LCSD LCSD %Rec

60 - 140

Analyte Added Result Qualifier Limits RPD Limit Unit D %Rec Gasoline Range Organics 500000 552800 ug/m3 111 57 - 134 5 35

LCSD LCSD %Recovery Qualifier Limits Surrogate

101

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RPD

QC Association Summary

Client: Ensolum

Project/Site: James Ranch Unit #10 03C1558041

SDG: Rural Eddy, NM

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GC/MS VOA

Analysis Batch: 242493

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep Bate	ch
890-8291-1	INFLUENT ALL WELLS	Total/NA	Air	8260C GRO	_
MB 860-242493/13	Method Blank	Total/NA	Air	8260C GRO	
LCS 860-242493/1010	Lab Control Sample	Total/NA	Air	8260C GRO	
LCSD 860-242493/11	Lab Control Sample Dup	Total/NA	Air	8260C GRO	

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Analysis Batch: 242513

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8291-1	INFLUENT ALL WELLS	Total/NA	Air	8260C	
MB 860-242513/6	Method Blank	Total/NA	Air	8260C	
LCS 860-242513/3	Lab Control Sample	Total/NA	Air	8260C	
LCSD 860-242513/4	Lab Control Sample Dup	Total/NA	Air	8260C	

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Lab Chronicle

Client: Ensolum Job ID: 890-8291-1 Project/Site: James Ranch Unit #10 03C1558041 SDG: Rural Eddy, NM

Client Sample ID: INFLUENT ALL WELLS

Lab Sample ID: 890-8291-1 Date Collected: 06/13/25 11:55 Matrix: Air

Date Received: 06/13/25 13:02

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	242513	06/14/25 15:27	KLV	EET HOU
Total/NA	Analysis	8260C GRO		1	5 mL	5 mL	242493	06/14/25 16:16	KLV	EET HOU

Laboratory References:

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

Eurofins Carlsbad

Accreditation/Certification Summary

Client: Ensolum

Project/Site: James Ranch Unit #10 03C1558041

SDG: Rural Eddy, NM

Laboratory: Eurofins Houston

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

authority	Progra	am	Identification Number	Expiration Date						
exas	NELAF	NELAP T104704215 06-30-2								
• ,	NELAP T104704215 The following analytes are included in this report, but the laboratory is not certified by the governing authority. This I for which the agency does not offer certification. Analysis Method Prep Method Air Benzene 8260C Air Ethylbenzene 8260C Air m,p-Xylenes 8260C Air Toluene		t may include analyte							
0 ,		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							

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Method Summary

Client: Ensolum

Project/Site: James Ranch Unit #10 03C1558041

Job ID: 890-8291-1

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

Eurofins Carlsbad

Sample Summary

Client: Ensolum

Project/Site: James Ranch Unit #10 03C1558041

Job ID: 890-8291-1

SDG: Rural Eddy, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-8291-1	INFLUENT ALL WELLS	Air	06/13/25 11:55	06/13/25 13:02

XENCO
LABORATORIES

AIR SAMPLING CHAIN OF CUSTODY

Xen	co	Jo	b	#:	

Stafford, Texas (281-240-4200)

San Antonio, Texas (210-509-3334)

Phoenix, Arizona (480-355-0900)

Dallas, Texas (214-902-0300)

Lubbock, TX (806-794-1296)

Midland, TX (432-704-5251)

El Paso, TX (915-585-3443)

Setting the Standard since 1990

		Oli (ID in the formation					Page								_ of _			
							Sampling						nalysi	sis Requested				
ompa	ny Name: Ensolum					TYPE			Pa	P								
roject	Contact: Stuart Hyde	_	-						n fi	j <u>i</u>								
mail:	shyde@ensolum.com		Ph.No.: 337-	257-8307		Soil		Q	و ا	ē Ē	erab							
roject	Name & No.: James Ranch	Unit #10, 03C1	558041			SV = Soil Ambient		or I	lns:	Ins	ist J)(
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Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-8291-1

SDC Number: Burst Eddy, NM

SDG Number: Rural Eddy, NM

Login Number: 8291
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.	N/A	
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	

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Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-8291-1 SDG Number: Rural Eddy, NM

Login Number: 8291 **List Source: Eurofins Houston** List Number: 2

List Creation: 06/14/25 10:37 AM

Creator: Grandits, Corey

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.	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	True	

Eurofins Carlsbad

Released to Imaging: 8/18/2025 3:24:10 PM

<6mm (1/4").

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

General Information Phone: (505) 629-6116

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

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

CONDITIONS

Action 487023

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	487023
	Action Type:
	[REPORT] Alternative Remediation Report (C-141AR)

CONDITIONS

Created By		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 October 15, 2025.	8/18/2025