REVIEWED By Mike Buchanan at 10:15 am, Apr 17, 2024



ENSOLUM

January 22, 2024	Review of the Fourth Quarter 2023 Solar SVE System Update for JRU10: Content
New Mexico Oil Conservation Division New Mexico Energy, Minerals, and Natural Res 1220 South St. Francis Drive Santa Fe, New Mexico 87505	conducting scheduled O&M.
Re: Fourth Quarter 2023 – Solar SVE Syst James Ranch Unit #10 Battery Eddy County, New Mexico XTO Energy, Inc. NMOCD Incident Numbers NAB153575	2. Submit next update report by July 2024. 4357, NAB1521257588, and NAB1904653072

To Whom it May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc. (XTO), presents this *Fourth Quarter* 2023 - 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 October, November, and December of 2023 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 at 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 fourth quarter of 2023, 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 at least monthly during this time period. Field notes taken during O&M visits are included as Appendix A.

During the fourth quarter of 2023, 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 September 20 and December 14, 2023, approximately 887 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 actual runtime for the system was 743.7 hours, equating to a runtime efficiency of 83.8 percent (%); however, no alarms or performance issues were noted during the fourth quarter O&M visits. Run time 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. Table 1 presents the SVE system runtime compared to nominal available daylight hours per month.

AIR SAMPLING RESULTS

A fourth quarter 2023 air emissions sample was collected on December 14, 2023, from a sample port located between the SVE piping manifold and the SVE blower using a high vacuum air sampler. Prior to collection, the emission sample was field screened with a photoionization detector (PID) for organic vapor monitoring (OVM). The emission 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 3,820 micrograms per liter (μ g/L). In comparison, individual BTEX constituent concentrations range from below the laboratory reporting limits up to 78.4 μ g/L in the fourth quarter of 2023. 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.

Air 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 15,791 pounds (7.90 tons) of TVPH have been removed by the system to date.

SYSTEM ADJUSTMENTS AND RECOMMENDATIONS

Monthly O&M visits will continue to be performed by Ensolum personnel to verify that 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 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.

As noted above, system flow/vacuum levels fluctuate with the intensity of the sun. Because of this, field readings can vary significantly depending on weather conditions at the time of O&M visits. To mitigate this variability when calculating the mass removal and total emissions calculations presented in Table 2, flow measurements recorded by the system's telemetry at 10-



minute intervals have been used to calculate an average flow for the fourth quarter of 2023 and will continue to be used moving forward. Averaging the flow rates throughout the quarter will provide more accurate data as compared to using instantaneous measurements collected during a single Site visit.

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, LG Senior Geologist (970) 903-1607 shyde@ensolum.com

Daniel R. Moir, PG 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

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TABLES

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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
9/20/2023	5,041.0	
12/14/2023	5,784.7	743.7

Time Period	September 21 to September 30, 2023	October 1 to October 31, 2023	November 1 to November 30, 2023	December 1 to December 14, 2023
Days	10	31	30	14
Avg. Nominal Daylight Hours	12	11	10	9
Available Runtime Hours	120	341	300	126

Quarterly Available Daylight Runtime Hours

Quarterly Runtime Hours 743.7

887

Quarterly % Runtime 83.8%

Month	Days	Nominal Daylight Hours	Total Month Hours
January	31	9	279
February	28	10	280
March	31	11	341
April	30	12	360
Мау	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

🔁 E N S O L U M

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		
Average	567	16.5	85	13.7	145	10,464		

Flow and Vapor Extraction Summary

Date	Flow Rate (cfm) ⁽¹⁾	Total System Flow (cf)	Delta Flow (cf)	Benzene (Ib/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
			Average	0.00745	0.0365	0.00639	0.0642	5.45

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
	Total Mas	ss Recovery to Date	37.2	150.1	34.8	276	15,791	7.90

Notes:

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

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

Released to Imaging: 4/17/2024 10:20:17 AM

Location



3

Date 10/11/27

Project / Client XTO JRV 10 OBM



		-	 Y					 	
10:50	offs	ite							
	-								
					6	H	6		
								7	

Rite in the Rain.

38Received by OCD: 1/30/2024 3:01:34 PM Page 12 of 34 Date 1/15/23 Location Project / Client XTO JRV 10 0+M 9:20 am Cloudy, over cast, Faggy/Mist System running. KO tonk -1/2 Full (will now sorviering Runtime 5585.7 hr. MainVoc. 23 in. H20 CFM: ~40 cfm $(in H_2O)$ · 20 E Visible mater in pipe SVEOZ 22 PTOU Value off CU gause brokent (TO1 Volve of SVE03 23 SVE 05 23 PT03 22 SVEDI 22 SVE04 SVE06 Volue off SUFPTOZ 24 Willow to return with Water tonk to empty system 11:30 Drained ~ 30 gal vaste noter from Ko tank GiA Released to Imaging: 4/17/2024 10:20:17 AM

Page 13 of 34 Received by OCD: 1/30/2024 3:01:34 PM 39____ Date ____//5/23 Location ____ Project / Client JRV 10 O+M. CW 11:30 Moin Vaci 31 in H20 (in H2O) 02 22 26 MO4 26 PTOI Valuo closel 03 05 26 26 PTO 3 24 OI 25 04 Valve closed 06 PT02 27 11:45 Afsite. Transport 11208 to Stand for disposal. Rite in the Rain Released to Imaging: 4/17/2024 10:20:17 AM

Received by OCD: 1/30/2024 3:01:34 PM Date Page 14 of 34 Location Project / Client JRV 10 Sampling -W Foggy with stendy rain 10:30 System running 21/4 Ko tenk 5784.7 hrs. Runtime Moin Vac 9 in H20 Flow 34 cfm Note Vac (In H2) PIPAN Voter in tubing 8 SVEO 2 NA Vater in tubing SVE PTOU 12 N/A NA SVE BB 1 MA Volve closed SVE PTO 1 2,582 12 513,9 SVEOS 晦12 SVEPTOZ 313,8 10 SVEC 1 136.9 10 94.9 SVEO 4 10 SVE06 N/A NA Velva close SVEPTOZ 76.8 12 Effert 64.9 N/A Influent 277.9 14 1):00 Collected (2) 1 Liter telder boys Influent all wells site 11:30 aut 2024 10:20:17 AM Ales. Released to



APPENDIX B

Laboratory Analytical Reports & Chain-of-Custody Documentation

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Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Tacoma Morrissey Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701 Generated 12/19/2023 4:14:00 PM

JOB DESCRIPTION

JAMES RANCH UNIT #10 03E1558041

JOB NUMBER

890-5800-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

See page two for job notes and contact information.



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

AMER

Generated 12/19/2023 4:14:00 PM

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

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Sample Summary	14
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-	17

Client: Ensolum Job ID: 890-5800- Project/Site: JAMES RANCH UNIT #10 SDG: 03E155804	
Qualifiers	- 3

GC/MS VOA

GC/MS VOA		
Qualifier	Qualifier Description	
U	Indicates the analyte was analyzed for but not detected.	
Glossary		5
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	0
CNF	Contains No Free Liquid	Ō
DER	Duplicate Error Ratio (normalized absolute difference)	
Dil Fac	Dilution Factor	9
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)	13
MDC	Minimum Detectable Concentration (Radiochemistry)	
MDL	Method Detection Limit	
ML	Minimum Level (Dioxin)	
MPN	Most Probable Number	
MQL	Method Quantitation Limit	
NC	Not Calculated	
ND	Not Detected at the reporting limit (or MDL or EDL if shown)	
NEG	Negative / Absent	
POS	Positive / Present	
PQL	Practical Quantitation Limit	
PRES	Presumptive	
QC	Quality Control	
RER	Relative Error Ratio (Radiochemistry)	
RL	Reporting Limit or Requested Limit (Radiochemistry)	
RPD	Relative Percent Difference, a measure of the relative difference between two points	
TEF	Toxicity Equivalent Factor (Dioxin)	
TEQ	Toxicity Equivalent Quotient (Dioxin)	
TNTC	Too Numerous To Count	

Case Narrative

Job ID: 890-5800-1

Client: Ensolum Project: JAMES RANCH UNIT #10

Eurofins Carlsbad

Job ID: 890-5800-1

Job Narrative 890-5800-1

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 sample was received on 12/14/2023 12:31 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice.

GC/MS VOA

Method 8260C_GRO: The following sample was diluted to bring the concentration of target analytes within the calibration range: INFLUENT ALL WELLS (890-5800-1). Elevated reporting limits (RLs) are provided.

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

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Project/Site: JAMES RANCH UNIT #10

Matrix: Air

Job ID: 890-5800-1 SDG: 03E1558041

Lab Sample ID: 890-5800-1

Client Sample ID: INFLUENT ALL WELLS Date Collected: 12/14/23 11:00

Date Received: 12/14/23 12:31

Client: Ensolum

Sample Container: Tedlar Bag 1L

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	3820000		250000	ug/m3			12/15/23 20:07	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		60 - 140		-		12/15/23 20:07	5
Method: SW846 8260C - Volati	le Organic Comp	ounds (GC	MS)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<10000	U	10000	ug/m3			12/15/23 19:47	1
Toluene	30300		10000	ug/m3			12/15/23 19:47	1
Ethylbenzene	<10000	U	10000	ug/m3			12/15/23 19:47	1
m,p-Xylenes	66700		20000	ug/m3			12/15/23 19:47	1
o-Xylene	11700		10000	ug/m3			12/15/23 19:47	1
Xylenes, Total	78400		20000	ug/m3			12/15/23 19:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 135		-		12/15/23 19:26	1
4-Bromofluorobenzene (Surr)	108		70 - 135				12/15/23 19:47	1

Surrogate Summary

Client: Ensolum Project/Site: JAMES RANCH UNIT #10 Job ID: 890-5800-1 SDG: 03E1558041

Method: 8260C - Volatile Organic Compounds (GCMS)

/latrix: Air			Prep Type: Total/NA	
-			Percent Surrogate Recovery (Acceptance Limits)	
		BFB		
Lab Sample ID	Client Sample ID	(70-135)		
890-5800-1	INFLUENT ALL WELLS	110		
890-5800-1	INFLUENT ALL WELLS	108		
LCS 860-135383/1010	Lab Control Sample	108		2
MB 860-135383/13	Method Blank	91		
Surrogate Legend				ī
BFB = 4-Bromofluorobe	nzene (Surr)			
latrix: Air	olatile Organic Compour		Prep Type: Total/NA Percent Surrogate Recovery (Acceptance Limits)	
		BFB		
Lab Sample ID	Client Sample ID			
LCSD 860-135383/11	Lab Control Sample Dup			
LCSD 860-135383/11 Surrogate Legend	Lab Control Sample Dup			
Surrogate Legend BFB = 4-Bromofluorobe		npounds (GC/MS		
BFB = 4-Bromofluorobe	enzene (Surr)	npounds (GC/MS	S) Prep Type: Total/NA	
Surrogate Legend BFB = 4-Bromofluorobe	enzene (Surr)	npounds (GC/MS		
Surrogate Legend BFB = 4-Bromofluorobe	enzene (Surr)	npounds (GC/MS	Prep Type: Total/NA	

		БГБ
Lab Sample ID	Client Sample ID	(60-140)
890-5800-1	INFLUENT ALL WELLS	116
LCS 860-135384/11	Lab Control Sample	106
LCSD 860-135384/12	Lab Control Sample Dup	105
MB 860-135384/14	Method Blank	110

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

QC Sample Results

Client: Ensolum Project/Site: JAMES RANCH UNIT #10

Method: 8260C - Volatile Organic Compounds (GCMS)

Lab Sample ID: MB 860-13538 Matrix: Air Analysis Batch: 135383	3/13					Client Sa	ample ID: Metho Prep Type: 1	
-	МВ	МВ						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<10000	U	10000	ug/m3			12/15/23 18:45	1
Toluene	<10000	U	10000	ug/m3			12/15/23 18:45	1
Ethylbenzene	<10000	U	10000	ug/m3			12/15/23 18:45	1
m,p-Xylenes	<20000	U	20000	ug/m3			12/15/23 18:45	1
o-Xylene	<10000	U	10000	ug/m3			12/15/23 18:45	1
Xylenes, Total	<20000	U	20000	ug/m3			12/15/23 18:45	1
	МВ	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 135		-		12/15/23 18:45	1
Lab Sample ID: LCS 860-1353	83/1010				CI	ient Sample	ID: Lab Control	Sample
Matrix: Air							Prep Type: 1	

Analysis Batch: 135383

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	50000	47770		ug/m3		96	70 - 125	
Toluene	50000	47890		ug/m3		96	70 - 125	
Ethylbenzene	50000	50500		ug/m3		101	70 - 125	
m,p-Xylenes	50000	47270		ug/m3		95	70 - 125	
o-Xylene	50000	50410		ug/m3		101	70 - 125	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 135

Lab Sample ID: LCSD 860-135383/11 Matrix: Air Analysis Batch: 135383

			Spike	LCSD	LCSD				%Rec		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene			50000	49060		ug/m3					
Toluene			50000	48260		ug/m3					
Ethylbenzene			50000	48840		ug/m3					
m,p-Xylenes			50000	47350		ug/m3					
o-Xylene			50000	48350		ug/m3					
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								

4-Bromofluorobenzene (Surr)

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

Lab Sample ID: MB 860-135384/14 Matrix: Air						Client Sa	ample ID: Metho Prep Type: ⁻	
Analysis Batch: 135384								
	MB	МВ						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50000	U	50000	ug/m3			12/15/23 18:45	1

7

Client Sample ID: Method Bla A

Job ID: 890-5800-1

SDG: 03E1558041

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

QC Sample Results

Job ID: 890-5800-1 SDG: 03E1558041

Client: Ensolum Project/Site: JAMES RANCH UNIT #10

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

Lab Sample ID: MB 860-135 Matrix: Air	384/14							Client S	ample ID: I	Method 'ype: To	
Analysis Batch: 135384									перт	ype. io	
· · · · · , · · · · · · · · · · · · · · · · · · ·											
		MB MB									
Surrogate	%Recov						P	repared	Analyz		Dil Fa
4-Bromofluorobenzene (Surr)		110	60 - 140						12/15/23	18:45	
Lab Sample ID: LCS 860-13	5384/11						Client	t Sample	D: Lab Co	ontrol S	ampl
Matrix: Air										ype: To	
Analysis Batch: 135384											
-			Spike	LCS	LCS				%Rec		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics			500000	426300		ug/m3		85	60 - 140		
	LCS	LCS									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	106		60 - 140								
Lab Complet ID: LCCD 900.4	25224/42					Clin			l ch Contro	I Commi	- D
Lab Sample ID: LCSD 860-1	35364/12					Cile	ent San	ipie iD:	Lab Contro		
Matrix: Air									Prepi	уре: То	
Analysis Batch: 135384			Spike	LCSD	LCSD				%Rec		RP
Analyte			Added		Qualifier	Unit	D	%Rec	Limits	RPD	Lim
Gasoline Range Organics			500000	412000	Quaimer			82	60 - 140	3	
Gasonne Range Organics			500000	412000		ug/m3		02	00 - 140	3	3
	LCSD I	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	105		60 - 140								

QC Association Summary

Client: Ensolum Project/Site: JAMES RANCH UNIT #10

Lab Control Sample

Lab Control Sample Dup

GC/MS VOA

Analysis Batch: 135383

LCS 860-135384/11

LCSD 860-135384/12

GC/IVIS VUA						3
Analysis Batch: 135383	3					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	4
890-5800-1	INFLUENT ALL WELLS	Total/NA	Air	8260C		
890-5800-1	INFLUENT ALL WELLS	Total/NA	Air	8260C		5
MB 860-135383/13	Method Blank	Total/NA	Air	8260C		
LCS 860-135383/1010	Lab Control Sample	Total/NA	Air	8260C		6
LCSD 860-135383/11	Lab Control Sample Dup	Total/NA	Air	8260C		
Analysis Batch: 135384	4					7
Г						0
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	8
890-5800-1	INFLUENT ALL WELLS	Total/NA	Air	8260C GRO		
MB 860-135384/14	Method Blank	Total/NA	Air	8260C GRO		9

Total/NA

Total/NA

Air

Air

8260C GRO

8260C GRO

Page 25 of 34

Job ID: 890-5800-1 SDG: 03E1558041

Client: Ensolum Project/Site: JAMES RANCH UNIT #10

Client Sample ID: INFLUENT ALL WELLS Date Collected: 12/14/23 11:00 Date Received: 12/14/23 12:31

	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	135383	12/15/23 19:26	JBS	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	135383	12/15/23 19:47	JBS	EET HOU
Total/NA	Analysis	8260C GRO		5	5 mL	5 mL	135384	12/15/23 20:07	JBS	EET HOU

Laboratory References:

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

Job ID: 890-5800-1

SDG: 03E1558041

Matrix: Air

9

Accreditation/Certification Summary

Client: Ensolum Project/Site: JAMES RANCH UNIT #10

Laboratory: Eurofins Houston

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

uthority	Prog	jram	Identification Number	Expiration Date
exas	NEL	AP	T104704215-23-53	06-30-24
• •	s are included in this report, I does not offer certification.	out the laboratory is not certif	ied by the governing authority. This lis	t may include analytes
Analysis Method	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	

10

Page 27 of 34

SDG: 03E1558041

Project/Site: JAMES RANCH UNIT #10

Method Summary

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:

Client: Ensolum

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

Job ID: 890-5800-1 SDG: 03E1558041

Client: Ensolum Project/Site: JAMES RANCH UNIT #10

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-5800-1	INFLUENT ALL WELLS	Air	12/14/23 11:00	12/14/23 12:31

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	Custody Seals Intact. Custody Seal No.	Relinquished by:	Relinquished by:		Empty Kit Keilinguishedrby	ineliverative requested. Fill III IV Outlet (specify)	Unconfirmed	Possible Hazard Identification	laboratory does not currently maintain accreditation in the State of Origin Isted above for analysis/best/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,	Note: Since laboratory accreditations are subject to change, Eurofins Environment									INFLUENT ALL WELLS (990-5800-1)		Sample Identification - Client ID (Lab ID)		JAMES RANCH UNIT #10	Email:	281-240-4200(Tel)	State, Zp; TX, 77477	City Stafford	Adress: 4145 Greenbriar Dr	Company Eurofins Environment Testing South Centr	Cirent Contact: Shipping/Receiving	Client Information (Sub Contract Lab)	1089 N Canal St. Carlsbad, NM 88220 Phone: 575-988-3199 Fax: 575-988-3199	
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	Cooler Temperature(s) °C and Other Rei	Received by	Received by-	Received by:	Time:	special instructions/uc Requirements:		Sample Disposal (A fee may be a	ipped back to the Eurofins Environment Testing irrent to date, return the signed Chain of Custor	& accreditation compliance upon our subcontr									xx		2610077 MS/1 8260C_GRO/To 8260C_MOD/To	WSD () ediar_A	(es of _6030	No) C GRO	<u></u>			Analysis Req	Accreditations Required (See note); NELAP Texas	E-Mail: Jessica.Kramer@et.eurofinsus.com	Lab PM: Kramer Jessica		
	Remarks:	Date/Time [,]	Date/Time:	Date/ Inme:	Method of Shipment		oosal By Lab	assessed if samples are retained longer than 1 month)	3 South Central, LLC laboratory or of by attesting to said compliance to EL	act laboratories. This sample shipm																		equested		State of Ongin: New Mexico	Carrier Tracking No(s):		5
			2/15/2023 9 54				Archive For	vined longer than 1 m	ther instructions will be prov profins Environment Testing	lent is forwarded under chai					Corrected Temp	C/F -00	Temp		2		Total Numbe Special Inst	t of co	LEDA	J DI Water	Amchlor Ascorbic Acid	D Nitric Acid	NaOH Zn Acetate	eservation Code	Jab #: 890-5800-1	Page: Page 1 of 1	COC No: 890-1992.1	eurofins	:
Ver: 06/08/2021		Company	Company EX	Company			Months	ionth)	ided. Any changes to South Central, LLC,	n-of-custody If the					Temp: 23. J	23.1" ID HOU-369					Special Instructions/Note:		Y Trízma Z other (specify)	V MCAA V pH4-5	S H2SO4 F TSP Dodecahydrate	P Na204S Q Na2S03 R Na2S203	N None	s: M Hexane				Environment Testing	

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 5800 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	

List Source: Eurofins Carlsbad

Eurofins Carlsbad Released to Imaging: 4/17/2024 10:20:17 AM

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Job Number: 890-5800-1 SDG Number: 03E1558041

List Source: Eurofins Houston

List Creation: 12/15/23 11:05 AM

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 5800 List Number: 2 Creator: Baker, Jeremiah

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.	False	
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	

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

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

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

District III

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

District IV

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

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

CONDITIONS

Action 309612

CONDITIONS

Operator:	OGRID:								
XTO ENERGY, INC	5380								
6401 Holiday Hill Road	Action Number:								
Midland, TX 79707	309612								
	Action Type:								
	[UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)								

CONDITION	s
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Created By Condition Condition Date Review of the Fourth Quarter 2023 Solar SVE System Update for JRU10: Content Satisfactory 1. Continue operating system as normal and 4/17/2024 michael.buchanan conducting scheduled O&M. 2. Submit next update report by July 2024.