

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

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

Form C-141  
Revised August 24, 2018  
Submit to appropriate OCD District office

Incident ID	NAPP2222156995
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

Responsible Party	Forty Acres Energy	OGRID	371416
Contact Name	Brittney Storfa	Contact Telephone	832-241-8080
Contact email	brittney@faenergyus.com	Incident # (assigned by OCD)	nAPP2222156995
Contact mailing address	11757 Katy FWY Suite 725, Houston, TX 77079		

### Location of Release Source

Latitude 32.5242 Longitude -103.34  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	West Eumont Unit LW White 2 Battery	Site Type	Battery
Date Release Discovered	08/01/2022	API# (if applicable)	

Unit Letter	Section	Township	Range	County
O	34	20 S	36E	Lea

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (Name: Dale Cooper)

### Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls)	7 bbls	Volume Recovered (bbls)	5 bbls
<input type="checkbox"/> Produced Water	Volume Released (bbls)		Volume Recovered (bbls)	
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
<input type="checkbox"/> Condensate	Volume Released (bbls)		Volume Recovered (bbls)	
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)		Volume Recovered (Mcf)	
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)		Volume/Weight Recovered (provide units)	

#### Cause of Release

Hole in the bottom of the tank.

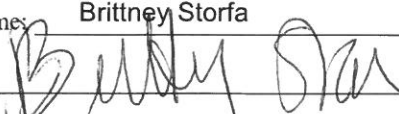
State of New Mexico  
Oil Conservation Division

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<p>Was this a major release as defined by 19.15.29.7(A) NMAC?</p> <p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	<p>If YES, for what reason(s) does the responsible party consider this a major release?</p>
<p>If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?</p>	

## Initial Response

*The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury*

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Brittney Storfa</u>	Title: <u>Production Engineer</u>
Signature: <u></u>	Date: <u>8/10/2022</u>
email: <u>brittney@faenergyus.com</u>	Telephone: <u>832-241-8080</u>
<b><u>OCD Only</u></b>	
Received by: <u>Jocelyn Harimon</u>	Date: <u>08/10/2022</u>

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## Site Assessment/Characterization

*This information must be provided to the appropriate district office no later than 90 days after the release discovery date.*

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>&gt;100</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

### **Characterization Report Checklist:** *Each of the following items must be included in the report.*

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☒ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

State of New Mexico  
Oil Conservation Division

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Printed Name: Alex Bolanos Title: Regulatory/Production Analyst  
Signature: Alex Bolanos Date: 12/14/23  
email: alex@faenergyus.com Telephone: (832)689-3788

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_



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## Remediation Plan

**Remediation Plan Checklist:** *Each of the following items must be included in the plan.*

- ☐ Detailed description of proposed remediation technique
- ☐ Scaled sitemap with GPS coordinates showing delineation points
- ☐ Estimated volume of material to be remediated
- ☐ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☐ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

**Deferral Requests Only:** *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☒ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☒ Extents of contamination must be fully delineated.
- ☒ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: Alex Bolanos Title: Regulatory/Production Analyst  
Signature: Alex Bolanos Date: 12/14/23  
email: alex@faenergyus.com Telephone: (832)689-3788

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: Nelson Velez Date: 12/21/2023



# DEFERRAL REQUEST REPORT

**West Eumont Unit LW White 2 Battery**

**Lea County, New Mexico**

**Incident Number NAPP2222156995**

**Prepared for:**

**Forty Acres Energy, LLC**

**11757 Katy Freeway, Suite 725**

**Houston, TX 77079**

Carlsbad • Midland • San Antonio • Lubbock • Hobbs • Lafayette



## **SYNOPSIS**

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Forty Acres Energy, LLC (FAE), presents the following Deferral Request Report (DRR) detailing site assessment and soil sampling activities performed for an inadvertent release of crude oil at the West Eumont Unit LW White 2 Battery (Site). Based on field observations, information provided by FAE, and review of the laboratory analytical results from soil sampling activities at the Site, FAE requests to defer residual soil impacts beneath and immediately adjacent to active production equipment until decommissioning or major facility deconstruction of the Site, whichever comes first.

## **SITE LOCATION AND RELEASE BACKGROUND**

The Site is located in Unit O, Section 34, Township 20 South, Range 36 East, in Lea County, New Mexico (32.5242°, -103.34°) and is associated with oil and gas exploration and production operations on Private Land (**Figure 1 in Appendix A**).

On August 1, 2022, it was discovered that there was a hole in the bottom of a tank which resulted in approximately 7 barrels (bbls) of crude oil to be released within the secondary containment earthen berm. Vacuum trucks were immediately dispatched and recovered approximately 5 bbls of crude oil. FAE reported the release to the NMOCD on a Release Notification and Corrective Action Form C-141 (Form C-141), which was received by the NMOCD on August 10, 2022, and was subsequently assigned Incident Number NAPP2222156995. Initial response efforts included relocation of two tanks and removal of immediate soil impacts up to 2 feet below ground surface (bgs) based on visual observation, totaling 56 cubic yards (CYs). FAE provided a map of the release extent which is presented as the Area of Concern (AOC) on **Figure 2 in Appendix A**. FAE has since backfilled the excavation inside the containment with caliche in an effort to restore the foundation near the tanks and eliminate potential safety hazards before replacing the tanks in their original locations.

Etech met with the NMOCD on October 31, 2023, to discuss the previously submitted DDR and to request resampling of horizontal delineation soil samples, specifically potholes PH04 through PH06 for consideration of approval. Mr. Nelson Velez requested that these samples be closer to the edge of the AOC than the original samples. The summary of additional field activities is described below.

## **SITE CHARACTERIZATION AND CLOSURE CRITERIA**

Etech characterized the Site according to Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC) considering depth to groundwater and the proximity to:

- Any continuously flowing watercourse or any other significant watercourse;
- Any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark);
- An occupied permanent residence, school, hospital, institution or church;
- A spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes;
- Any freshwater well or spring;
- Incorporated municipal boundaries or a defined municipal fresh water well field covered under a municipal ordinance;
- A wetland;
- A subsurface mine;
- An unstable area (i.e. high karst potential); and
- A 100-year floodplain.



Depth to groundwater at the Site is estimated to be greater than 100 feet bgs based on New Mexico Office of the State Engineer (NMOSE) permitted soil boring CP-01975-POD1 that was recently drilled by Coffey Drilling, located approximately 0.35-mile south of the Site. Using a truck mounted rotary drill rig equipped with hollow stem auger, the soil boring was advanced to a total depth of 160 feet bgs. No fluids were observed throughout the drilling process nor after a 72-hour observation period. The referenced well record for the soil boring is provided in **Appendix B**. The soil boring location and regional groundwater well locations are shown in **Figure 1A** in **Appendix A**.

All other potential receptors are not within the established buffers in NMAC 19.15.29.12. Receptor details and sources used for the Site characterization are included in **Figure 1B** and **Figure 1C** in **Appendix A**.

Based on the results from the desktop review and estimated regional depth to groundwater at the Site, the following Closure Criteria was applied:

Constituents of Concern (COCs)	Laboratory Analytical Method	Closure Criteria <sup>†</sup>
Chloride	Environmental Protection Agency (EPA) 300.0	20,000 milligram per kilogram (mg/kg)
TPH (Total Petroleum Hydrocarbon)	EPA 8015 M/D	2,500 mg/kg
Gasoline Range Organics (GRO) + Diesel Range Organics (DRO)	EPA 8015 M/D	1,000 mg/kg
Benzene	EPA 8021B	10 mg/kg
Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX)	EPA 8021B	50 mg/kg

<sup>†</sup>The reclamation standard concentration requirements of 600 mg/kg chloride and 100 mg/kg TPH apply to the top 4 feet of areas to be immediately reclaimed following remediation pursuant to NMAC 19.15.17.13.

## **SITE ASSESSMENT AND DELINEATION SOIL SAMPLING ACTIVITIES**

From August 7, 2023, to August 24, 2023, Etech conducted site assessment and delineation activities to confirm details of the release provided on the Form C-141 and information provided by FAE and to verify the presence or absence of impacted soil associated with the AOC. Six delineation potholes (PH01 through PH06) were advanced via mechanical equipment and/or hand auger, which were driven by field screening soil for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. A minimum of two samples were collected from each delineation soil sample location, representing the highest observed field screening concentrations and the greatest depth. Field screening results and soil descriptions are included on soil sampling logs shown in **Appendix C**. The locations of the delineation soil samples are shown in **Figure 2** in **Appendix A**. Photographic documentation of delineation activities is included in **Appendix D**.

The delineation soil samples were placed directly into lab provided pre-cleaned jars, packed with minimal void space, labeled, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures, to Envirotech, Inc. (Envirotech) in Farmington, New Mexico, for analysis of COCs.

On November 20 and November 29, 2023, a third-party consultant assisted in the recollection of delineation soil samples PH04 through PH06 in effort to redefine the potential horizontal edge of the AOC while confirming that impacts did not extend beyond the secondary containment earthen berm. A minimum of two samples were collected from each delineation soil sample location. The second depth samples were collected within 1 foot of the original locations. The locations of the updated delineation soil samples are shown in **Figure 2** in **Appendix A**. The soil samples were transported under strict chain-of-custody procedures, to Cardinal Laboratories in Hobbs, New Mexico, for analysis of COCs.



## LABORATORY ANALYTICAL RESULTS

Laboratory analytical results indicated that concentrations of COCs for all delineation soil samples collected around the AOC were below the applicable Site Closure Criteria. Laboratory analytical results indicated elevated TPH-GRO/TPH-DRO and TPH existed within the AOC up to 4 feet bgs (ranging from 13,200 mg/kg to 4,886.9 mg/kg). Laboratory analytical results are summarized in **Table 1** in **Attachment E**, and the complete laboratory reports with chain-of-custody documentation are included in **Attachment F**.

## DEFERRAL REQUEST

Based on the data collected from the delineation soil samples, FAE requests to defer the remaining residual impacts within the secondary containment earthen berm, considering the following:

- Depth to groundwater is estimated to be greater than 100 feet bgs based on NMOSE permitted soil boring CP-01975-POD1, and no other sensitive receptors are within the applicable buffer ranges.
- According to laboratory analytical results of delineation soil samples inside the AOC, impacts do not appear to exceed 4 feet bgs within AOC in the vicinity of PH02. Remaining hydrocarbon residual impacts associated with the inadvertent release are characterized by concentrations ranging from 13,200 mg/kg to 4,886.9 mg/kg and reside beneath and immediately adjacent to an above ground storage tank and above-ground utilities. Further removal of impacted soil would likely compromise the structural integrity of said active production equipment and above-ground utilities. The approximate area of the proposed deferral area is presented on **Figure 3** in **Appendix A**.
- Laboratory analyses for all final delineation soil samples collected outside the secondary containment earthen berm yielded COC concentrations below the applicable Site Closure Criteria. As such, FAE believes that the horizontal periphery of the AOC is sufficiently defined.
- Based on the laboratory analytical data and corrective actions detailed in this DRR, residual impacts associated with the inadvertent release have been excavated to the maximum extent practical and sufficiently delineated in accordance with the applicable Site Closure Criteria. FAE believes the completed remedial actions have mitigated impacts at the Site and fulfilled requirements set forth in NMAC 19.15.29.13 regulations in order to be protective of human health, the environment and groundwater. As such, FAE requests consideration for the deferral of approximately 200 CYs of impacted soil associated with Incident Number NAPP2222156995 until decommissioning or major facility deconstruction of the Site, whichever comes first.

## LIMITATIONS

Etech has prepared this DRR to the best of its ability. No other warranty, expressed or implied, is made or intended. Etech has examined and relied upon documents reference in the report and on oral statements made by certain individuals. Etech has not conducted an independent examination of the facts contained in referenced materials and statements. Etech has presumed the genuineness of these documents and statements and that the information provided therein is true and accurate. Etech has prepared the report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Etech notes that the facts and conditions referenced in this report may change over time, and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

If you have any questions or comments, please do not hesitate to contact Joseph Hernandez at (281) 702-2329 or [joseph@etechenv.com](mailto:joseph@etechenv.com) or Erick Herrera at (281) 777-4152 or [erick@etechenv.com](mailto:erick@etechenv.com).





**Appendix G** provides correspondence email notification receipts associated with the subject release. **Appendix H** includes the previously submitted DRR with original PH04 through PH06 sample location and data.

Sincerely,

eTECH Environmental and Safety Solutions, Inc.

A handwritten signature in black ink, appearing to read 'Erick H'.

Erick Herrera  
Staff Geologist

A handwritten signature in black ink, appearing to read 'Joseph S. Hernandez'.

Joseph S. Hernandez  
Senior Managing Geologist

cc: David Schellstede, Forty Acres Energy  
New Mexico Oil Conservation Division

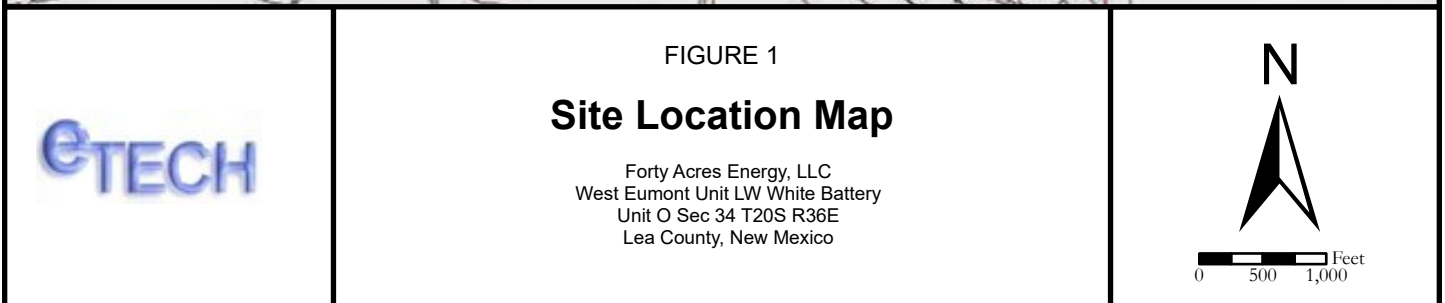
**Appendices:**

<b>Appendix A</b>	Figure 1: Site Map Figure 1A: Site Characterization Map – Groundwater Figure 1B: Site Characterization Map – Surficial Receptors Figure 1C: Site Characterization Map – Karst Potential Figure 2: Delineation Soil Sample Locations Figure 3: Deferral Request
<b>Appendix B</b>	Referenced Well Records
<b>Appendix C</b>	Soil Sampling Logs
<b>Appendix D</b>	Photographic Log
<b>Appendix E</b>	Tables
<b>Appendix F</b>	Laboratory Analytical Reports & Chain-of-Custody Documentation
<b>Appendix G</b>	NMOCD Notifications
<b>Appendix H</b>	Original Submitted DRR

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# APPENDIX A

## Figures





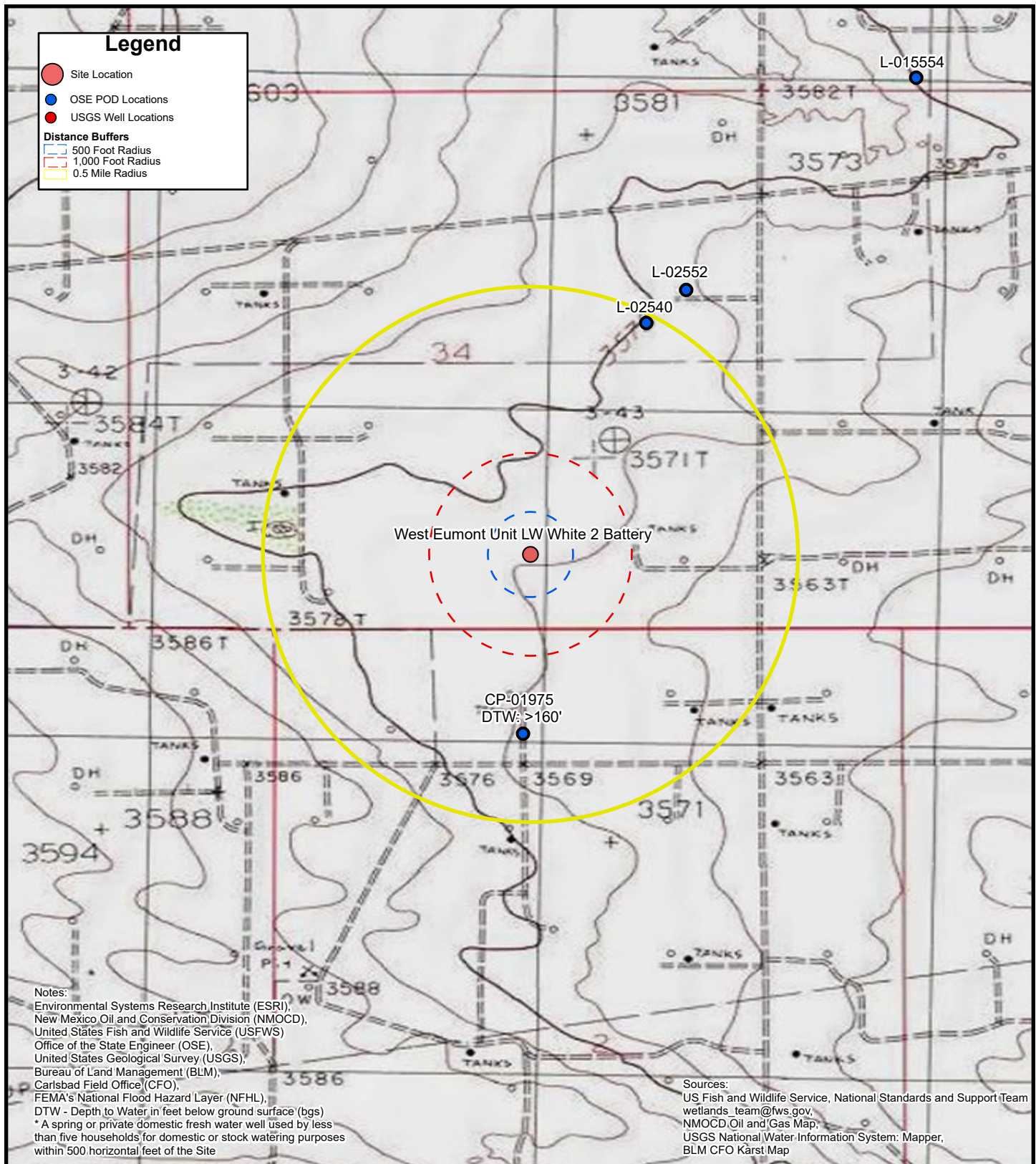
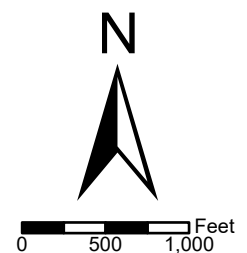


FIGURE 1A

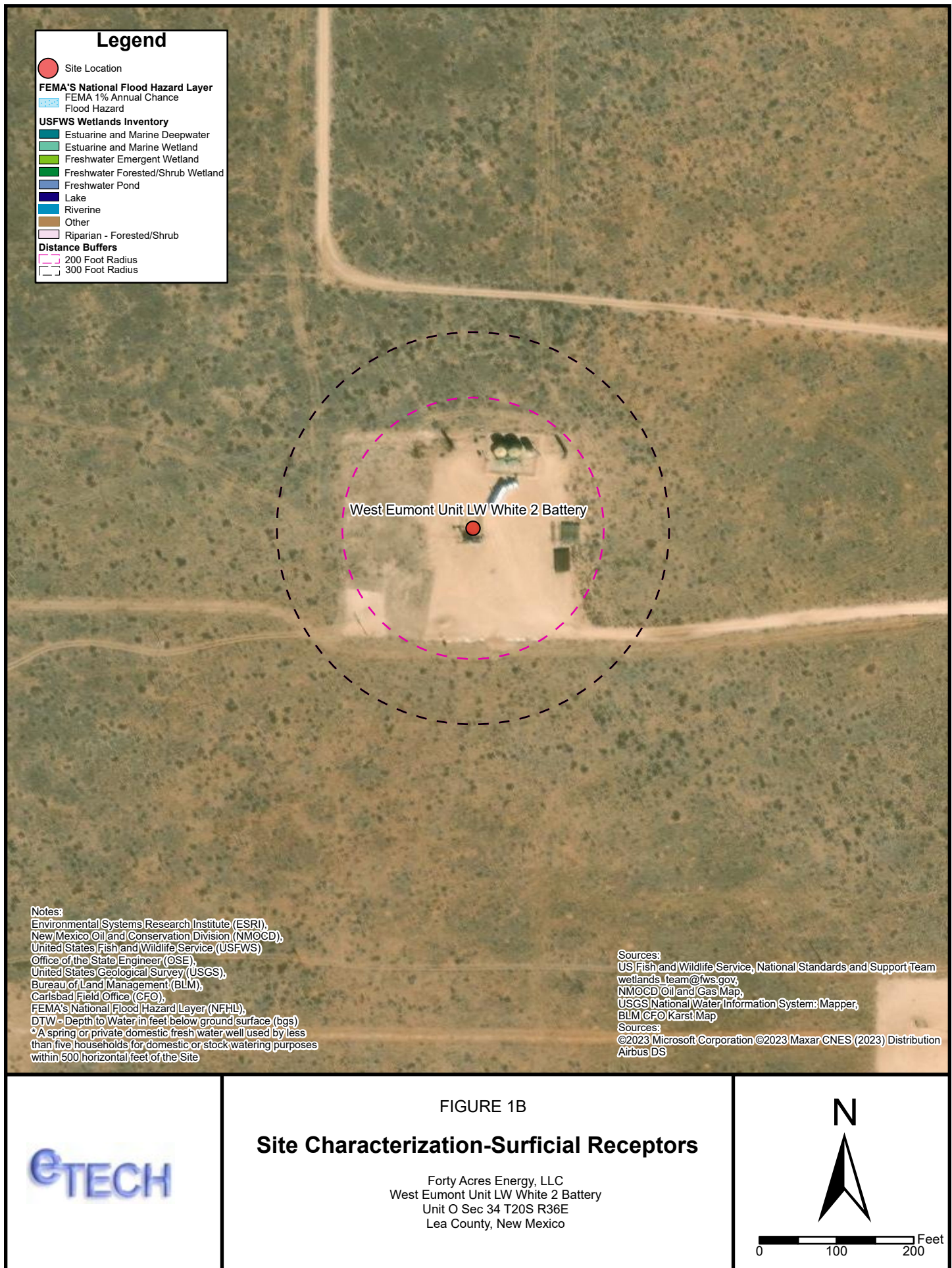
**Site Characterization Map-Groundwater**

Forty Acres Energy, LLC  
West Eumont Unit LW White 2 Battery  
Unit O Sec 34 T20S R36E  
Lea County, New Mexico

**eTECH**









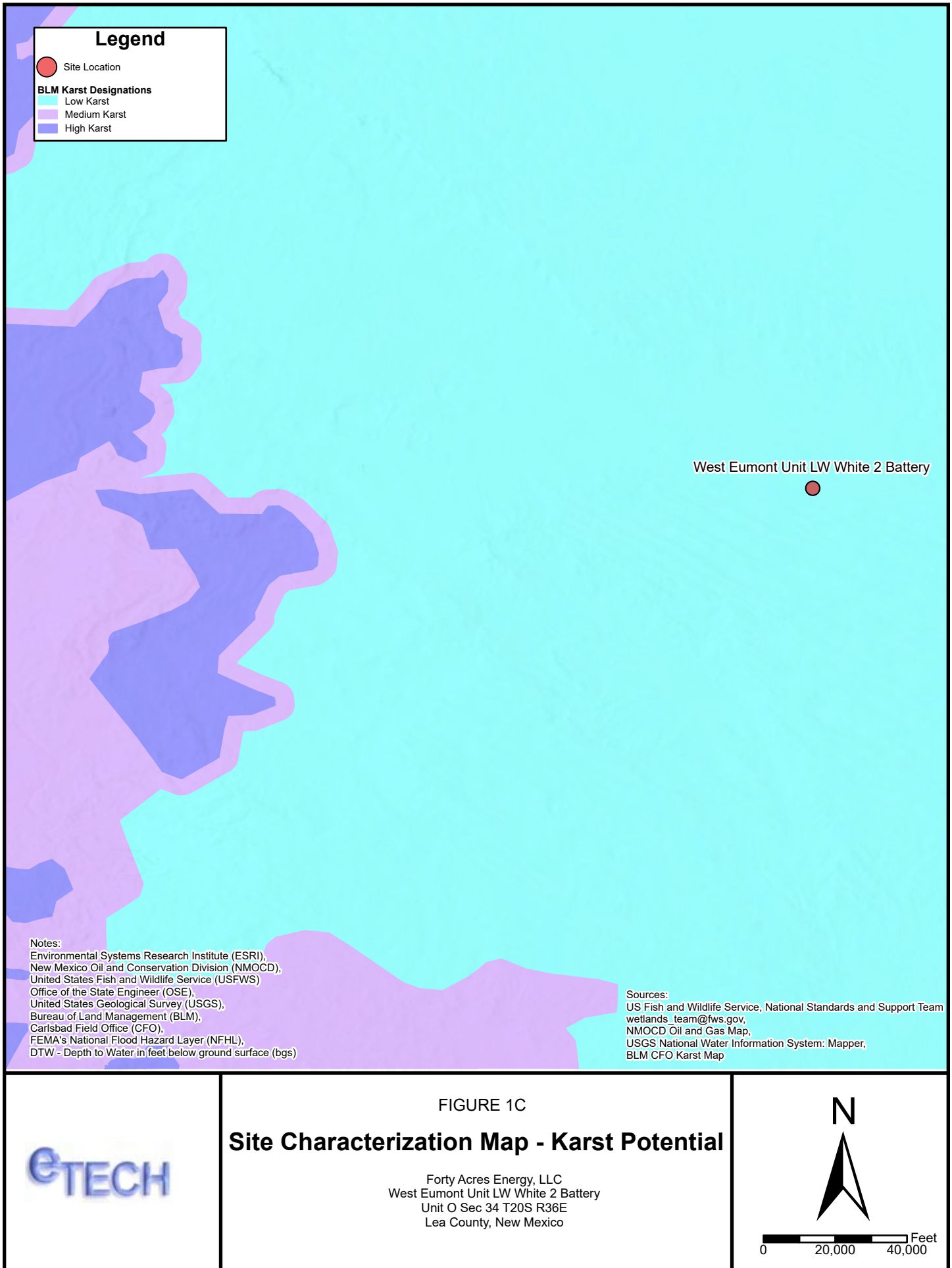










FIGURE 3

## Deferral Request

Forty Acres Energy, LLC  
West Eumont Unit LW White Battery  
Unit O Sec 34 T20S R36E  
Lea County, New Mexico

eTECH



0 40 80 Feet

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## APPENDIX B

### Referenced Well Records





# WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

[www.ose.state.nm.us](http://www.ose.state.nm.us)

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD-1		WELL TAG ID NO. 213A19		OSE FILE NO(S). CP-1975			
	WELL OWNER NAME(S) Clay Tom Cooper				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS Box 6				CITY Monument	STATE NM	ZIP 88265	
	WELL LOCATION (FROM GPS)	DEGREES 32	MINUTES 31	SECONDS 09.6	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND		
		LONGITUDE 103	20	24.7	W	* DATUM REQUIRED: WGS 84		
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1839		NAME OF LICENSED DRILLER Boyd Coffey			NAME OF WELL DRILLING COMPANY Coffey Drilling		
	DRILLING STARTED 8-24-2023		DRILLING ENDED 8-24-2023		DEPTH OF COMPLETED WELL (FT) 160	BORE HOLE DEPTH (FT) 160	DEPTH WATER FIRST ENCOUNTERED (FT) NA	
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) NA		
	DRILLING FLUID: <input type="checkbox"/> AIR <input checked="" type="checkbox"/> MUD ADDITIVES – SPECIFY:							
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER – SPECIFY:							
	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	20	10	PVC	bell	5	sdr 21	
	20	100	8.75	PVC	bell	5	sdr 21	
	100	120	8.75	PVC	bell	5	sdr 21	0.020
	120	160	8.75	PVC	bell	5	sdr 21	
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						
	0	20	10	3/8 Bentonite hole plug	8	Pour		
	20	160	8.75	3/8 pea gravel	38	Pour		

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2



4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)	
	FROM	TO					
	0	5	5	Red Sandy Top Soil	Y	✓ N	
	5	46	41	White Caliche	Y	✓ N	
	46	94	48	Tan soft SandStone	Y	✓ N	
	94	101	7	Red clay	Y	✓ N	
	101	108	7	Course sand/gravel	Y	✓ N	
	108	160	52	Red Clay	Y	✓ N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
	METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input checked="" type="checkbox"/> BAILER <input type="checkbox"/> OTHER – SPECIFY:					TOTAL ESTIMATED WELL YIELD (gpm):                      0.00	
	5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.				
		MISCELLANEOUS INFORMATION:					
PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:							
6. SIGNATURE	BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.						
	SIGNATURE OF DRILLER / PRINT SIGNEE NAME					DATE	

FOR OSE INTERNAL USE


WR-20 WELL RECORD &amp; LOG (Version 04/30/2019)


FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 2 OF 2


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## APPENDIX C


### Soil Sampling Logs


				Sample Name: PH01		Date: 08/24/2023		
				Site Name: West Eumont Unit LW White 2 Battery				
				Incident Number: NAPP2222156995				
				Job Number: 18340				
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Site Coordinates: 32.5242, -103.34				Hole Diameter: N/A		Total Depth: 6'		
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	1,744	83.1	Yes	PH01	0.5	0	SW-SM	(0-4') SAND, dry, reddish brown, well graded fine to coarse grained, with silt and gravel, some staining, hydrocarbon odor.
-	-	-	-	-	1	1		
Dry	192	98.0	Yes		2	2		(4-6') SAND, dry, reddish brown, well graded fine to coarse grained, with silt and gravel no staining, no odor.
-	-	-	-	-		3		
Dry	356	25.2	Yes	PH01	4	4		
-	-	-	-	-		5		
Dry	192	0.8	No	PH01	6	6		
Total Depth								


				Sample Name: PH02		Date: 08/24/2023		
				Site Name: West Eumont Unit LW White 2 Battery				
				Incident Number: NAPP2222156995				
				Job Number: 18340				
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Site Coordinates: 32.5242, -103.34				Hole Diameter: N/A		Total Depth: 6'		
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	1,700	310.1	Yes	PH02	0.5	0	SW-SM	(0-4') SAND, dry, reddish brown, well graded fine to coarse grained, with silt and gravel, some staining, hydrocarbon odor.
-	-	-	-	-		1		
Dry	216	317.1	Yes		2	2		(4-6') SAND, dry, reddish brown, well graded fine to coarse grained, with silt and gravel no staining, no odor.
-	-	-	-	-		3		
Dry	680	184.8	Yes	PH02	4	4		
-	-	-	-	-	5	5		
Dry	<112	0.4	No	PH02	6	6		
Total Depth								

								Sample Name: PH03		Date: 08/24/2023	
								Site Name: West Eumont Unit LW White 2 Battery			
								Incident Number: NAPP2222156995			
								Job Number: 18340			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: EK		Method: Hand Auger	
Site Coordinates: 32.5242, -103.34								Hole Diameter: 4"		Total Depth: 1'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes			
Dry	180	0.3	No	PH03	0.5	0	SP	(0-1') SAND, dry, light brown, poorly graded, very fine to fine grained, no staining no odor.			
Dry	180	0.0	No	PH03	1	1					
Total Depth											



								Sample Name: PH04		Date: 08/24/2023			
								Site Name: West Eumont Unit LW White 2 Battery					
								Incident Number: NAPP2222156995					
								Job Number: 18340					
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: EK		Method: Hand Auger			
Site Coordinates: 32.5242, -103.34								Hole Diameter: 4"		Total Depth: 1'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.													
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes					
Dry	<112	0.0	No	PH04	0.5	0	SP	(0-1') SAND, dry, light brown, poorly graded, very fine to fine grained, no staining no odor.					
Dry	<112	0.0	No	PH04	1	1							
Total Depth													

								Sample Name: PH05		Date: 08/24/2023			
								Site Name: West Eumont Unit LW White 2 Battery					
								Incident Number: NAPP2222156995					
								Job Number: 18340					
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: EK		Method: Hand Auger			
Site Coordinates: 32.5242, -103.34								Hole Diameter: 4"		Total Depth: 1'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.													
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes					
Dry	<112	0.0	No	PH05	0.5	0	SP	(0-1') SAND, dry, light brown, poorly graded, very fine to fine grained, no staining no odor.					
Dry	<112	0.0	No	PH05	1	1							
Total Depth													

								Sample Name: PH06		Date: 08/24/2023			
								Site Name: West Eumont Unit LW White 2 Battery					
								Incident Number: NAPP2222156995					
								Job Number: 18340					
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: EK		Method: Hand Auger			
Site Coordinates: 32.5242, -103.34								Hole Diameter: 4"		Total Depth: 1'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.													
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes					
Dry	<112	1.0	No	PH06	0.5	0	SP	(0-1') SAND, dry, light brown, poorly graded, very fine to fine grained, no staining no odor.					
Dry	<112	0.0	No	PH06	1	1							
Total Depth													

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## APPENDIX D

### Photographic Log

# eTECH

## PHOTOGRAPHIC LOG

Forty Acres Energy, LLC

West Eumont Unit LW White 2 Battery

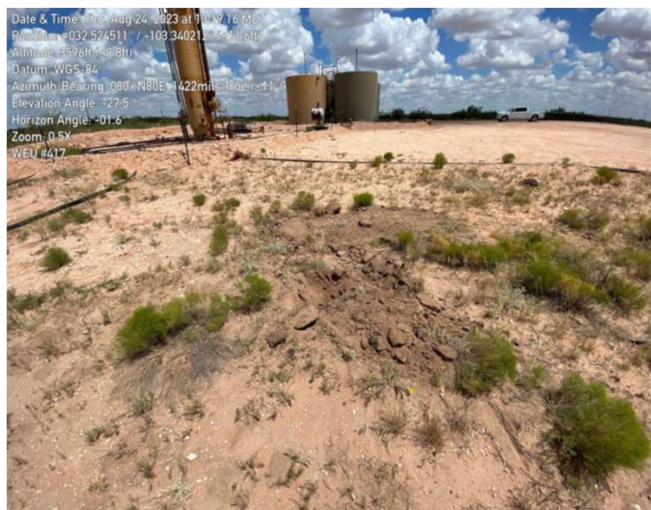
Incident Number NAPP2222156995

**Photograph 1****Date: 08/07/2023**

Description: Northeastern view during Site assessment activities.

**Photograph 2****Date: 08/24/2023**

Description: Southeastern view of delineation activities.

**Photograph 3****Date: 08/24/2023**

Description: Southeastern view of delineation activities.

**Photograph 4****Date: 08/24/2023**

Description: Northwestern view of delineation activities.

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# APPENDIX E

## Tables





**Table 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
**Forty Acres Energy, LLC**  
**West Eumont Unit LW White 2 Battery**  
**Lea, New Mexico**

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	DRO+GRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria for Soils Impacted by a Release (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Delineation Soil Samples - Incident Number nAPP2222156995										
PH01	08/24/2023	0.5	<0.0250	1.60	35.7	11,800	<5,000	<b>11,800</b>	<b>11,800</b>	1,980
PH01	08/24/2023	4	<0.0250	<0.0500	<20.0	168	64.3	232.3	232.3	841
PH01	08/24/2023	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<50.0	107
PH02	08/24/2023	0.5	0.0324	7.81	99.3	13,200	<5,000	<b>13,200</b>	<b>13,200</b>	1,240
PH02	08/24/2023	4	<0.0250	1.32	36.9	4,850	<5,000	<b>4,886.9</b>	<b>4,886.9</b>	576
PH02	08/24/2023	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<50.0	68.3
PH03	08/24/2023	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<50.0	115
PH03	08/24/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<50.0	115
PH04	11/20/2023	0.5-1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16
PH04	11/29/2023	1.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32
PH05	11/20/2023	0.5-1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32
PH05	11/29/2023	1.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32
PH06	11/20/2023	0.5-1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48
PH06	11/29/2023	1.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32

## Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

Text in "grey" represents excavated soil samples

Concentrations in **bold** exceed the NMOCD Table I Closure Criteria and/or Reclamation Standard for Soils Impacted by a Release

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## APPENDIX F

### Laboratory Analytical Reports & Chain-of-Custody Documentation

Report to:  
Erick Herrera



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Forty Acres Energy, LLC

Project Name: West Eumont Unit #417

Work Order: E308214

Job Number: 23007-0001

Received: 8/28/2023

Revision: 2

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
9/1/23

5796 U.S. Hwy 64  
Farmington, NM 87401

Phone: (505) 632-1881  
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.  
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.  
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.  
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.  
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 9/1/23

Erick Herrera  
13000 W County RD 100  
Odessa, TX 79765



Project Name: West Eumont Unit #417  
Workorder: E308214  
Date Received: 8/28/2023 9:55:00AM

Erick Herrera,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/28/2023 9:55:00AM, under the Project Name: West Eumont Unit #417.

The analytical test results summarized in this report with the Project Name: West Eumont Unit #417 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

**Walter Hinchman**  
Laboratory Director  
Office: 505-632-1881  
Cell: 775-287-1762  
[whinchman@envirotech-inc.com](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
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**Alexa Michaels**  
Sample Custody Officer  
Office: 505-632-1881  
[labadmin@envirotech-inc.com](mailto:labadmin@envirotech-inc.com)

Field Offices:

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**West Texas Midland/Odessa Area**  
**Rayny Hagan**  
Technical Representative  
Office: 505-421-LABS(5227)

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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Sample Summary

Forty Acres Energy, LLC	Project Name:	West Eumont Unit #417	Reported:
13000 W County RD 100	Project Number:	23007-0001	
Odessa TX, 79765	Project Manager:	Erick Herrera	09/01/23 15:47

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH01 0.5'	E308214-01A	Soil	08/24/23	08/28/23	Glass Jar, 2 oz.
PH01 4'	E308214-02A	Soil	08/24/23	08/28/23	Glass Jar, 2 oz.
PH02 0.5'	E308214-03A	Soil	08/24/23	08/28/23	Glass Jar, 2 oz.
PH02 4'	E308214-04A	Soil	08/24/23	08/28/23	Glass Jar, 2 oz.



## Sample Data

Forty Acres Energy, LLC  
13000 W County RD 100  
Odessa TX, 79765

Project Name: West Eumont Unit #417  
Project Number: 23007-0001  
Project Manager: Erick Herrera

**Reported:**  
9/1/2023 3:47:55PM

## PH01 0.5'

## E308214-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2335027	
Benzene	ND	0.0250	1	08/28/23	08/30/23	
Ethylbenzene	ND	0.0250	1	08/28/23	08/30/23	
Toluene	0.0308	0.0250	1	08/28/23	08/30/23	
o-Xylene	0.750	0.0250	1	08/28/23	08/30/23	
p,m-Xylene	0.822	0.0500	1	08/28/23	08/30/23	
Total Xylenes	1.57	0.0250	1	08/28/23	08/30/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		111 %	70-130	08/28/23	08/30/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2335027	
Gasoline Range Organics (C6-C10)	35.7	20.0	1	08/28/23	08/30/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		89.3 %	70-130	08/28/23	08/30/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2335067	
Diesel Range Organics (C10-C28)	11800	2500	100	08/30/23	08/31/23	
Oil Range Organics (C28-C36)	ND	5000	100	08/30/23	08/31/23	
<i>Surrogate: n-Nonane</i>						
		112 %	50-200	08/30/23	08/31/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2335038	
Chloride	1980	20.0	1	08/29/23	08/30/23	





## Sample Data

Forty Acres Energy, LLC  
13000 W County RD 100  
Odessa TX, 79765

Project Name: West Eumont Unit #417  
Project Number: 23007-0001  
Project Manager: Erick Herrera

**Reported:**  
9/1/2023 3:47:55PM

## PH01 4'

## E308214-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2335027
Benzene	ND	0.0250	1	08/28/23	08/30/23	
Ethylbenzene	ND	0.0250	1	08/28/23	08/30/23	
Toluene	ND	0.0250	1	08/28/23	08/30/23	
o-Xylene	ND	0.0250	1	08/28/23	08/30/23	
p,m-Xylene	ND	0.0500	1	08/28/23	08/30/23	
Total Xylenes	ND	0.0250	1	08/28/23	08/30/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.2 %	70-130		08/28/23	08/30/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2335027
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/28/23	08/30/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	85.7 %	70-130		08/28/23	08/30/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2335067
Diesel Range Organics (C10-C28)	168	25.0	1	08/30/23	08/31/23	
Oil Range Organics (C28-C36)	64.3	50.0	1	08/30/23	08/31/23	
<i>Surrogate: n-Nonane</i>						
	91.9 %	50-200		08/30/23	08/31/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2335038
Chloride	841	20.0	1	08/29/23	08/30/23	



## Sample Data

Forty Acres Energy, LLC  
13000 W County RD 100  
Odessa TX, 79765

Project Name: West Eumont Unit #417  
Project Number: 23007-0001  
Project Manager: Erick Herrera

**Reported:**  
9/1/2023 3:47:55PM

PH02 0.5'

E308214-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2335027
Benzene	0.0324	0.0250	1	08/28/23	08/31/23	
Ethylbenzene	1.56	0.0250	1	08/28/23	08/31/23	
Toluene	0.286	0.0250	1	08/28/23	08/31/23	
o-Xylene	2.43	0.0250	1	08/28/23	08/31/23	
p,m-Xylene	3.51	0.0500	1	08/28/23	08/31/23	
Total Xylenes	5.94	0.0250	1	08/28/23	08/31/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		116 %	70-130	08/28/23	08/31/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2335027
Gasoline Range Organics (C6-C10)	99.3	20.0	1	08/28/23	08/31/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		95.7 %	70-130	08/28/23	08/31/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2335067
Diesel Range Organics (C10-C28)	13200	2500	100	08/30/23	08/31/23	
Oil Range Organics (C28-C36)	ND	5000	100	08/30/23	08/31/23	
<i>Surrogate: n-Nonane</i>						
		172 %	50-200	08/30/23	08/31/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2335038
Chloride	1240	20.0	1	08/29/23	08/30/23	



## Sample Data

Forty Acres Energy, LLC  
13000 W County RD 100  
Odessa TX, 79765

Project Name: West Eumont Unit #417  
Project Number: 23007-0001  
Project Manager: Erick Herrera

**Reported:**  
9/1/2023 3:47:55PM

## PH02 4'

## E308214-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2335027
Benzene	ND	0.0250	1	08/28/23	08/31/23	
Ethylbenzene	0.276	0.0250	1	08/28/23	08/31/23	
Toluene	0.0840	0.0250	1	08/28/23	08/31/23	
o-Xylene	0.296	0.0250	1	08/28/23	08/31/23	
p,m-Xylene	0.666	0.0500	1	08/28/23	08/31/23	
Total Xylenes	0.962	0.0250	1	08/28/23	08/31/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	08/28/23	08/31/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2335027
Gasoline Range Organics (C6-C10)	36.9	20.0	1	08/28/23	08/31/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		88.7 %	70-130	08/28/23	08/31/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2335067
Diesel Range Organics (C10-C28)	4850	2500	100	08/30/23	08/31/23	
Oil Range Organics (C28-C36)	ND	5000	100	08/30/23	08/31/23	
<i>Surrogate: n-Nonane</i>						
		118 %	50-200	08/30/23	08/31/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2335038
Chloride	576	20.0	1	08/29/23	08/30/23	



## QC Summary Data

Forty Acres Energy, LLC	Project Name:	West Eumont Unit #417	Reported:
13000 W County RD 100	Project Number:	23007-0001	
Odessa TX, 79765	Project Manager:	Erick Herrera	9/1/2023 3:47:55PM

## Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2335027-BLK1)

Prepared: 08/28/23 Analyzed: 08/30/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.37		8.00		92.1	70-130			

## LCS (2335027-BS1)

Prepared: 08/28/23 Analyzed: 08/30/23

Benzene	4.61	0.0250	5.00		92.2	70-130			
Ethylbenzene	4.90	0.0250	5.00		97.9	70-130			
Toluene	4.94	0.0250	5.00		98.8	70-130			
o-Xylene	5.09	0.0250	5.00		102	70-130			
p,m-Xylene	10.1	0.0500	10.0		101	70-130			
Total Xylenes	15.2	0.0250	15.0		101	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.44		8.00		93.0	70-130			

## Matrix Spike (2335027-MS1)

Source: E308209-02

Prepared: 08/28/23 Analyzed: 08/30/23

Benzene	4.07	0.0250	5.00	ND	81.3	54-133			
Ethylbenzene	4.32	0.0250	5.00	ND	86.4	61-133			
Toluene	4.35	0.0250	5.00	ND	87.0	61-130			
o-Xylene	4.47	0.0250	5.00	ND	89.5	63-131			
p,m-Xylene	8.92	0.0500	10.0	ND	89.2	63-131			
Total Xylenes	13.4	0.0250	15.0	ND	89.3	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.43		8.00		92.9	70-130			

## Matrix Spike Dup (2335027-MSD1)

Source: E308209-02

Prepared: 08/28/23 Analyzed: 08/30/23

Benzene	4.18	0.0250	5.00	ND	83.6	54-133	2.69	20	
Ethylbenzene	4.44	0.0250	5.00	ND	88.7	61-133	2.62	20	
Toluene	4.48	0.0250	5.00	ND	89.6	61-130	2.91	20	
o-Xylene	4.66	0.0250	5.00	ND	93.1	63-131	4.02	20	
p,m-Xylene	9.18	0.0500	10.0	ND	91.8	63-131	2.79	20	
Total Xylenes	13.8	0.0250	15.0	ND	92.2	63-131	3.20	20	
Surrogate: 4-Bromochlorobenzene-PID	7.42		8.00		92.8	70-130			



QC Summary Data

Forty Acres Energy, LLC 13000 W County RD 100 Odessa TX, 79765	Project Name: West Eumont Unit #417 Project Number: 23007-0001 Project Manager: Erick Herrera	Reported:  9/1/2023 3:47:55PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2335027-BLK1) Prepared: 08/28/23 Analyzed: 08/30/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.85		8.00		85.6	70-130			

LCS (2335027-BS2) Prepared: 08/28/23 Analyzed: 08/30/23

Gasoline Range Organics (C6-C10)	37.4	20.0	50.0		74.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.90		8.00		86.3	70-130			

Matrix Spike (2335027-MS2) Source: E308209-02 Prepared: 08/28/23 Analyzed: 08/30/23

Gasoline Range Organics (C6-C10)	39.1	20.0	50.0	ND	78.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.98		8.00		87.2	70-130			

Matrix Spike Dup (2335027-MSD2) Source: E308209-02 Prepared: 08/28/23 Analyzed: 08/30/23

Gasoline Range Organics (C6-C10)	36.2	20.0	50.0	ND	72.4	70-130	7.60	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.97		8.00		87.1	70-130			



QC Summary Data

Forty Acres Energy, LLC 13000 W County RD 100 Odessa TX, 79765	Project Name: West Eumont Unit #417 Project Number: 23007-0001 Project Manager: Erick Herrera	Reported:  9/1/2023 3:47:55PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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<b>Blank (2335067-BLK1)</b>					Prepared: 08/30/23 Analyzed: 08/31/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	46.8		50.0		93.6	50-200			

<b>LCS (2335067-BS1)</b>					Prepared: 08/30/23 Analyzed: 08/31/23				
Diesel Range Organics (C10-C28)	232	25.0	250		93.0	38-132			
Surrogate: n-Nonane	43.1		50.0		86.2	50-200			

<b>Matrix Spike (2335067-MS1)</b>					<b>Source: E308211-01</b>		Prepared: 08/30/23 Analyzed: 08/31/23		
Diesel Range Organics (C10-C28)	253	25.0	250	ND	101	38-132			
Surrogate: n-Nonane	43.9		50.0		87.9	50-200			

<b>Matrix Spike Dup (2335067-MSD1)</b>					<b>Source: E308211-01</b>		Prepared: 08/30/23 Analyzed: 08/31/23		
Diesel Range Organics (C10-C28)	257	25.0	250	ND	103	38-132	1.95	20	
Surrogate: n-Nonane	46.6		50.0		93.2	50-200			



QC Summary Data

Forty Acres Energy, LLC	Project Name:	West Eumont Unit #417	Reported:
13000 W County RD 100	Project Number:	23007-0001	
Odessa TX, 79765	Project Manager:	Erick Herrera	9/1/2023 3:47:55PM

Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2335038-BLK1)					Prepared: 08/29/23 Analyzed: 08/30/23				
Chloride	ND	20.0							
LCS (2335038-BS1)					Prepared: 08/29/23 Analyzed: 08/30/23				
Chloride	254	20.0	250		102	90-110			
Matrix Spike (2335038-MS1)					Source: E308134-01		Prepared: 08/29/23 Analyzed: 08/30/23		
Chloride	419	20.0	250	162	103	80-120			
Matrix Spike Dup (2335038-MSD1)					Source: E308134-01		Prepared: 08/29/23 Analyzed: 08/30/23		
Chloride	417	20.0	250	162	102	80-120	0.358	20	

QC Summary Report Comment:  
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures.  
Therefore, hand calculated values may differ slightly.





Definitions and Notes

Forty Acres Energy, LLC	Project Name:	West Eumont Unit #417	
13000 W County RD 100	Project Number:	23007-0001	Reported:
Odessa TX, 79765	Project Manager:	Erick Herrera	09/01/23 15:47

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

Note (1): Methods marked with \*\* are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



## Project Information

## Chain of Custody

Page 1 of 1

Client: Forty Acres Energy, LLC.				Bill To				Lab Use Only				TAT				EPA Program			
Project: West Eumont Unit #417				Attention: Etech Environmental & Safety Solutions, Inc.				Lab WO# E308214				Job Number 230070001				1D 2D 3D Standard			
Project Manager: Erick Herrera				Address: 13000 W County Rd 100								S day TAT				CWA SDWA			
Address: 13000 W County Rd 100				City, State, Zip Odessa, TX, 79765												RCRA			
City, State, Zip Odessa, TX, 79765				Phone: (432)563-2200															
Phone: (281)777-4152				Email:															
Email: erick@etechenv.com, joseph@etechenv.com				WO: N/A															
Collected by: Edyte Konan				Incident ID: nAPP2222156995															
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Depth (ft.)	TPH GRO/DRO/GRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		NM DOGDB	TX DOGDB	Remarks				
10:00	8/24/2023	S	1	PH01	1	0.5'							X						
10:10	8/24/2023	S	1	PH01	2	4'							X						
10:30	8/24/2023	S	1	PH02	3	0.5'							X						
10:40	8/24/2023	S	1	PH02	4	4'							X						
													X						
<del>Signature</del>																			
Additional Instructions:																			
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																			
Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.																			
Relinquished by: (Signature) <del>Signature</del> Date 08/25/23 Time 15:00 Received by: (Signature) Michelle Gonzales Date 08-25-23 Time 1500																			
Relinquished by: (Signature) Michelle Gonzales Date 08-25-23 Time 1700 Received by: (Signature) <del>Signature</del> Date 8/28/23 Time 9:55																			
Relinquished by: (Signature) Date Time Received by: (Signature) Date Time																			
Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N T1 T2 T3 AVG Temp °C 4																			
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																			
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																			
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																			



envirotech

## Envirotech Analytical Laboratory

Printed: 8/28/2023 1:36:58PM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Forty Acres Energy, LLC	Date Received:	08/28/23 09:55	Work Order ID:	E308214
Phone:	(281) 777-4152	Date Logged In:	08/28/23 10:20	Logged In By:	Caitlin Mars
Email:	erick@etechnv.com	Due Date:	09/01/23 17:00 (4 day TAT)		

**Chain of Custody (COC)**

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: Courier**Comments/Resolution****Sample Turn Around Time (TAT)**

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

**Sample Cooler**

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

**Sample Container**

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

**Field Label**

20. Were field sample labels filled out with the minimum information:
  - Sample ID? Yes
  - Date/Time Collected? Yes
  - Collectors name? No

**Sample Preservation**

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

**Multiphase Sample Matrix**

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

**Subcontract Laboratory**

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

**Client Instruction**

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:  
Erick Herrera



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Forty Acres Energy, LLC

Project Name: West Eumont Unit #417

Work Order: E308211

Job Number: 23007-0001

Received: 8/28/2023

Revision: 2

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
9/1/23

5796 U.S. Hwy 64  
Farmington, NM 87401

Phone: (505) 632-1881  
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.  
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.  
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.  
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.  
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 9/1/23

Erick Herrera  
13000 W County RD 100  
Odessa, TX 79765



Project Name: West Eumont Unit #417  
Workorder: E308211  
Date Received: 8/28/2023 9:55:00AM

Erick Herrera,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/28/2023 9:55:00AM, under the Project Name: West Eumont Unit #417.

The analytical test results summarized in this report with the Project Name: West Eumont Unit #417 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

**Walter Hinchman**  
Laboratory Director  
Office: 505-632-1881  
Cell: 775-287-1762  
[whinchman@envirotech-inc.com](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
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**Alexa Michaels**  
Sample Custody Officer  
Office: 505-632-1881  
[labadmin@envirotech-inc.com](mailto:labadmin@envirotech-inc.com)

Field Offices:

**Southern New Mexico Area**  
**Lynn Jarboe**  
Technical Representative/Client Services  
Office: 505-421-LABS(5227)  
Cell: 505-320-4759  
[ljjarboe@envirotech-inc.com](mailto:ljjarboe@envirotech-inc.com)

**West Texas Midland/Odessa Area**  
**Rayny Hagan**  
Technical Representative  
Office: 505-421-LABS(5227)

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)



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Sample Summary

Forty Acres Energy, LLC	Project Name:	West Eumont Unit #417	Reported:
13000 W County RD 100	Project Number:	23007-0001	
Odessa TX, 79765	Project Manager:	Erick Herrera	09/01/23 15:46

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH01 6'	E308211-01A	Soil	08/24/23	08/28/23	Glass Jar, 2 oz.



## Sample Data

Forty Acres Energy, LLC  
13000 W County RD 100  
Odessa TX, 79765

Project Name: West Eumont Unit #417  
Project Number: 23007-0001  
Project Manager: Erick Herrera

**Reported:**  
9/1/2023 3:46:55PM

## PH01 6'

## E308211-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2335027	
Benzene	ND	0.0250	1	08/28/23	08/30/23	
Ethylbenzene	ND	0.0250	1	08/28/23	08/30/23	
Toluene	ND	0.0250	1	08/28/23	08/30/23	
o-Xylene	ND	0.0250	1	08/28/23	08/30/23	
p,m-Xylene	ND	0.0500	1	08/28/23	08/30/23	
Total Xylenes	ND	0.0250	1	08/28/23	08/30/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.7 %	70-130		08/28/23	08/30/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2335027	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/28/23	08/30/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	85.0 %	70-130		08/28/23	08/30/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2335067	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/30/23	08/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/30/23	08/31/23	
<i>Surrogate: n-Nonane</i>						
	94.8 %	50-200		08/30/23	08/31/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2335039	
Chloride	107	20.0	1	08/29/23	08/31/23	



## QC Summary Data

Forty Acres Energy, LLC	Project Name:	West Eumont Unit #417	Reported:
13000 W County RD 100	Project Number:	23007-0001	
Odessa TX, 79765	Project Manager:	Erick Herrera	9/1/2023 3:46:55PM

## Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2335027-BLK1)

Prepared: 08/28/23 Analyzed: 08/30/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.37		8.00		92.1	70-130			

## LCS (2335027-BS1)

Prepared: 08/28/23 Analyzed: 08/30/23

Benzene	4.61	0.0250	5.00		92.2	70-130			
Ethylbenzene	4.90	0.0250	5.00		97.9	70-130			
Toluene	4.94	0.0250	5.00		98.8	70-130			
o-Xylene	5.09	0.0250	5.00		102	70-130			
p,m-Xylene	10.1	0.0500	10.0		101	70-130			
Total Xylenes	15.2	0.0250	15.0		101	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.44		8.00		93.0	70-130			

## Matrix Spike (2335027-MS1)

Source: E308209-02

Prepared: 08/28/23 Analyzed: 08/30/23

Benzene	4.07	0.0250	5.00	ND	81.3	54-133			
Ethylbenzene	4.32	0.0250	5.00	ND	86.4	61-133			
Toluene	4.35	0.0250	5.00	ND	87.0	61-130			
o-Xylene	4.47	0.0250	5.00	ND	89.5	63-131			
p,m-Xylene	8.92	0.0500	10.0	ND	89.2	63-131			
Total Xylenes	13.4	0.0250	15.0	ND	89.3	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.43		8.00		92.9	70-130			

## Matrix Spike Dup (2335027-MSD1)

Source: E308209-02

Prepared: 08/28/23 Analyzed: 08/30/23

Benzene	4.18	0.0250	5.00	ND	83.6	54-133	2.69	20	
Ethylbenzene	4.44	0.0250	5.00	ND	88.7	61-133	2.62	20	
Toluene	4.48	0.0250	5.00	ND	89.6	61-130	2.91	20	
o-Xylene	4.66	0.0250	5.00	ND	93.1	63-131	4.02	20	
p,m-Xylene	9.18	0.0500	10.0	ND	91.8	63-131	2.79	20	
Total Xylenes	13.8	0.0250	15.0	ND	92.2	63-131	3.20	20	
Surrogate: 4-Bromochlorobenzene-PID	7.42		8.00		92.8	70-130			



## QC Summary Data

Forty Acres Energy, LLC 13000 W County RD 100 Odessa TX, 79765	Project Name: West Eumont Unit #417 Project Number: 23007-0001 Project Manager: Erick Herrera	Reported: 9/1/2023 3:46:55PM
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## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2335027-BLK1)

Prepared: 08/28/23 Analyzed: 08/30/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.85		8.00		85.6	70-130			

## LCS (2335027-BS2)

Prepared: 08/28/23 Analyzed: 08/30/23

Gasoline Range Organics (C6-C10)	37.4	20.0	50.0		74.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.90		8.00		86.3	70-130			

## Matrix Spike (2335027-MS2)

Source: E308209-02

Prepared: 08/28/23 Analyzed: 08/30/23

Gasoline Range Organics (C6-C10)	39.1	20.0	50.0	ND	78.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.98		8.00		87.2	70-130			

## Matrix Spike Dup (2335027-MSD2)

Source: E308209-02

Prepared: 08/28/23 Analyzed: 08/30/23

Gasoline Range Organics (C6-C10)	36.2	20.0	50.0	ND	72.4	70-130	7.60	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.97		8.00		87.1	70-130			





## QC Summary Data

Forty Acres Energy, LLC 13000 W County RD 100 Odessa TX, 79765	Project Name: West Eumont Unit #417 Project Number: 23007-0001 Project Manager: Erick Herrera	Reported: 9/1/2023 3:46:55PM
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## Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2335067-BLK1)

Prepared: 08/30/23 Analyzed: 08/31/23

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	46.8		50.0		93.6	50-200			

## LCS (2335067-BS1)

Prepared: 08/30/23 Analyzed: 08/31/23

Diesel Range Organics (C10-C28)	232	25.0	250		93.0	38-132			
Surrogate: n-Nonane	43.1		50.0		86.2	50-200			

## Matrix Spike (2335067-MS1)

Source: E308211-01

Prepared: 08/30/23 Analyzed: 08/31/23

Diesel Range Organics (C10-C28)	253	25.0	250	ND	101	38-132			
Surrogate: n-Nonane	43.9		50.0		87.9	50-200			

## Matrix Spike Dup (2335067-MSD1)

Source: E308211-01

Prepared: 08/30/23 Analyzed: 08/31/23

Diesel Range Organics (C10-C28)	257	25.0	250	ND	103	38-132	1.95	20	
Surrogate: n-Nonane	46.6		50.0		93.2	50-200			



QC Summary Data

Forty Acres Energy, LLC	Project Name:	West Eumont Unit #417	Reported:
13000 W County RD 100	Project Number:	23007-0001	
Odessa TX, 79765	Project Manager:	Erick Herrera	9/1/2023 3:46:55PM

Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2335039-BLK1)					Prepared: 08/29/23 Analyzed: 08/31/23				
Chloride	ND	20.0							
LCS (2335039-BS1)					Prepared: 08/29/23 Analyzed: 08/31/23				
Chloride	240	20.0	250		96.2	90-110			
Matrix Spike (2335039-MS1)					Source: E308208-01		Prepared: 08/29/23 Analyzed: 08/31/23		
Chloride	699	20.0	250	412	114	80-120			
Matrix Spike Dup (2335039-MSD1)					Source: E308208-01		Prepared: 08/29/23 Analyzed: 08/31/23		
Chloride	662	20.0	250	412	100	80-120	5.33	20	

QC Summary Report Comment:  
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures.  
Therefore, hand calculated values may differ slightly.

Definitions and Notes

Forty Acres Energy, LLC	Project Name:	West Eumont Unit #417	
13000 W County RD 100	Project Number:	23007-0001	Reported:
Odessa TX, 79765	Project Manager:	Erick Herrera	09/01/23 15:46

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

Note (1): Methods marked with \*\* are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

### Project Information



## Envirotech Analytical Laboratory

Printed: 8/28/2023 1:24:50PM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Forty Acres Energy, LLC	Date Received:	08/28/23 09:55	Work Order ID:	E308211
Phone:	(281) 777-4152	Date Logged In:	08/28/23 10:17	Logged In By:	Caitlin Mars
Email:	erick@etechnv.com	Due Date:	09/01/23 17:00 (4 day TAT)		

**Chain of Custody (COC)**

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: Courier**Comments/Resolution****Sample Turn Around Time (TAT)**

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

**Sample Cooler**

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

**Sample Container**

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

**Field Label**

20. Were field sample labels filled out with the minimum information:
  - Sample ID? Yes
  - Date/Time Collected? Yes
  - Collectors name? No

**Sample Preservation**

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

**Multiphase Sample Matrix**

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

**Subcontract Laboratory**

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

**Client Instruction**

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.



Report to:  
Erick Herrera



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Forty Acres Energy, LLC

Project Name: West Eumont Unit #417

Work Order: E308212

Job Number: 23007-0001

Received: 8/28/2023

Revision: 2

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
9/1/23

5796 U.S. Hwy 64  
Farmington, NM 87401

Phone: (505) 632-1881  
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.  
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.  
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.  
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.  
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 9/1/23

Erick Herrera  
13000 W County RD 100  
Odessa, TX 79765



Project Name: West Eumont Unit #417  
Workorder: E308212  
Date Received: 8/28/2023 9:55:00AM

Erick Herrera,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/28/2023 9:55:00AM, under the Project Name: West Eumont Unit #417.

The analytical test results summarized in this report with the Project Name: West Eumont Unit #417 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

**Walter Hinchman**  
Laboratory Director  
Office: 505-632-1881  
Cell: 775-287-1762  
[whinchman@envirotech-inc.com](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
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**Alexa Michaels**  
Sample Custody Officer  
Office: 505-632-1881  
[labadmin@envirotech-inc.com](mailto:labadmin@envirotech-inc.com)

Field Offices:

**Southern New Mexico Area**  
**Lynn Jarboe**  
Technical Representative/Client Services  
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[ljjarboe@envirotech-inc.com](mailto:ljjarboe@envirotech-inc.com)

**West Texas Midland/Odessa Area**  
**Rayny Hagan**  
Technical Representative  
Office: 505-421-LABS(5227)

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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Sample Summary

Forty Acres Energy, LLC	Project Name:	West Eumont Unit #417	Reported:
13000 W County RD 100	Project Number:	23007-0001	
Odessa TX, 79765	Project Manager:	Erick Herrera	09/01/23 15:50

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH02 6'	E308212-01A	Soil	08/24/23	08/28/23	Glass Jar, 2 oz.



## Sample Data

Forty Acres Energy, LLC  
13000 W County RD 100  
Odessa TX, 79765

Project Name: West Eumont Unit #417  
Project Number: 23007-0001  
Project Manager: Erick Herrera

**Reported:**  
9/1/2023 3:50:56PM

## PH02 6'

## E308212-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2335027	
Benzene	ND	0.0250	1	08/28/23	08/30/23	
Ethylbenzene	ND	0.0250	1	08/28/23	08/30/23	
Toluene	ND	0.0250	1	08/28/23	08/30/23	
o-Xylene	ND	0.0250	1	08/28/23	08/30/23	
p,m-Xylene	ND	0.0500	1	08/28/23	08/30/23	
Total Xylenes	ND	0.0250	1	08/28/23	08/30/23	
Surrogate: 4-Bromochlorobenzene-PID	92.2 %	70-130		08/28/23	08/30/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2335027	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/28/23	08/30/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	85.4 %	70-130		08/28/23	08/30/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2335067	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/30/23	08/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/30/23	08/31/23	
Surrogate: n-Nonane	92.0 %	50-200		08/30/23	08/31/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2335039	
Chloride	68.3	20.0	1	08/29/23	08/31/23	



## QC Summary Data

Forty Acres Energy, LLC 13000 W County RD 100 Odessa TX, 79765	Project Name: West Eumont Unit #417 Project Number: 23007-0001 Project Manager: Erick Herrera	Reported: 9/1/2023 3:50:56PM
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## Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2335027-BLK1)

Prepared: 08/28/23 Analyzed: 08/30/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.37		8.00		92.1	70-130			

## LCS (2335027-BS1)

Prepared: 08/28/23 Analyzed: 08/30/23

Benzene	4.61	0.0250	5.00		92.2	70-130			
Ethylbenzene	4.90	0.0250	5.00		97.9	70-130			
Toluene	4.94	0.0250	5.00		98.8	70-130			
o-Xylene	5.09	0.0250	5.00		102	70-130			
p,m-Xylene	10.1	0.0500	10.0		101	70-130			
Total Xylenes	15.2	0.0250	15.0		101	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.44		8.00		93.0	70-130			

## Matrix Spike (2335027-MS1)

Source: E308209-02

Prepared: 08/28/23 Analyzed: 08/30/23

Benzene	4.07	0.0250	5.00	ND	81.3	54-133			
Ethylbenzene	4.32	0.0250	5.00	ND	86.4	61-133			
Toluene	4.35	0.0250	5.00	ND	87.0	61-130			
o-Xylene	4.47	0.0250	5.00	ND	89.5	63-131			
p,m-Xylene	8.92	0.0500	10.0	ND	89.2	63-131			
Total Xylenes	13.4	0.0250	15.0	ND	89.3	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.43		8.00		92.9	70-130			

## Matrix Spike Dup (2335027-MSD1)

Source: E308209-02

Prepared: 08/28/23 Analyzed: 08/30/23

Benzene	4.18	0.0250	5.00	ND	83.6	54-133	2.69	20	
Ethylbenzene	4.44	0.0250	5.00	ND	88.7	61-133	2.62	20	
Toluene	4.48	0.0250	5.00	ND	89.6	61-130	2.91	20	
o-Xylene	4.66	0.0250	5.00	ND	93.1	63-131	4.02	20	
p,m-Xylene	9.18	0.0500	10.0	ND	91.8	63-131	2.79	20	
Total Xylenes	13.8	0.0250	15.0	ND	92.2	63-131	3.20	20	
Surrogate: 4-Bromochlorobenzene-PID	7.42		8.00		92.8	70-130			





QC Summary Data

Forty Acres Energy, LLC 13000 W County RD 100 Odessa TX, 79765	Project Name: West Eumont Unit #417 Project Number: 23007-0001 Project Manager: Erick Herrera	Reported:  9/1/2023 3:50:56PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2335027-BLK1) Prepared: 08/28/23 Analyzed: 08/30/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.85		8.00		85.6	70-130			

LCS (2335027-BS2) Prepared: 08/28/23 Analyzed: 08/30/23

Gasoline Range Organics (C6-C10)	37.4	20.0	50.0		74.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.90		8.00		86.3	70-130			

Matrix Spike (2335027-MS2) Source: E308209-02 Prepared: 08/28/23 Analyzed: 08/30/23

Gasoline Range Organics (C6-C10)	39.1	20.0	50.0	ND	78.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.98		8.00		87.2	70-130			

Matrix Spike Dup (2335027-MSD2) Source: E308209-02 Prepared: 08/28/23 Analyzed: 08/30/23

Gasoline Range Organics (C6-C10)	36.2	20.0	50.0	ND	72.4	70-130	7.60	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.97		8.00		87.1	70-130			



## QC Summary Data

Forty Acres Energy, LLC 13000 W County RD 100 Odessa TX, 79765	Project Name: West Eumont Unit #417 Project Number: 23007-0001 Project Manager: Erick Herrera	Reported: 9/1/2023 3:50:56PM
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## Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2335067-BLK1)

Prepared: 08/30/23 Analyzed: 08/31/23

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	46.8		50.0		93.6	50-200			

## LCS (2335067-BS1)

Prepared: 08/30/23 Analyzed: 08/31/23

Diesel Range Organics (C10-C28)	232	25.0	250		93.0	38-132			
Surrogate: n-Nonane	43.1		50.0		86.2	50-200			

## Matrix Spike (2335067-MS1)

Source: E308211-01

Prepared: 08/30/23 Analyzed: 08/31/23

Diesel Range Organics (C10-C28)	253	25.0	250	ND	101	38-132			
Surrogate: n-Nonane	43.9		50.0		87.9	50-200			

## Matrix Spike Dup (2335067-MSD1)

Source: E308211-01

Prepared: 08/30/23 Analyzed: 08/31/23

Diesel Range Organics (C10-C28)	257	25.0	250	ND	103	38-132	1.95	20	
Surrogate: n-Nonane	46.6		50.0		93.2	50-200			



QC Summary Data

Forty Acres Energy, LLC 13000 W County RD 100 Odessa TX, 79765	Project Name: West Eumont Unit #417 Project Number: 23007-0001 Project Manager: Erick Herrera	Reported:  9/1/2023 3:50:56PM
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Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

<b>Blank (2335039-BLK1)</b>					Prepared: 08/29/23 Analyzed: 08/31/23				
Chloride	ND	20.0							
<b>LCS (2335039-BS1)</b>					Prepared: 08/29/23 Analyzed: 08/31/23				
Chloride	240	20.0	250		96.2	90-110			
<b>Matrix Spike (2335039-MS1)</b>					<b>Source: E308208-01</b>		Prepared: 08/29/23 Analyzed: 08/31/23		
Chloride	699	20.0	250	412	114	80-120			
<b>Matrix Spike Dup (2335039-MSD1)</b>					<b>Source: E308208-01</b>		Prepared: 08/29/23 Analyzed: 08/31/23		
Chloride	662	20.0	250	412	100	80-120	5.33	20	

QC Summary Report Comment:  
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures.  
Therefore, hand calculated values may differ slightly.



Definitions and Notes

Forty Acres Energy, LLC	Project Name:	West Eumont Unit #417	
13000 W County RD 100	Project Number:	23007-0001	Reported:
Odessa TX, 79765	Project Manager:	Erick Herrera	09/01/23 15:50

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

Note (1): Methods marked with \*\* are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

### Chain of Custody



## Envirotech Analytical Laboratory

Printed: 8/28/2023 1:31:16PM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Forty Acres Energy, LLC	Date Received:	08/28/23 09:55	Work Order ID:	E308212
Phone:	(281) 777-4152	Date Logged In:	08/28/23 10:18	Logged In By:	Caitlin Mars
Email:	erick@etechnv.com	Due Date:	09/01/23 17:00 (4 day TAT)		

**Chain of Custody (COC)**

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: Courier**Comments/Resolution****Sample Turn Around Time (TAT)**

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

**Sample Cooler**

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

**Sample Container**

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

**Field Label**

20. Were field sample labels filled out with the minimum information:
  - Sample ID? Yes
  - Date/Time Collected? Yes
  - Collectors name? No

**Sample Preservation**

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

**Multiphase Sample Matrix**

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

**Subcontract Laboratory**

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

**Client Instruction**

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.



Report to:  
Erick Herrera



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Forty Acres Energy, LLC

Project Name: West Eumont Unit #417

Work Order: E308209

Job Number: 23007-0001

Received: 8/28/2023

Revision: 2

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
9/1/23

5796 U.S. Hwy 64  
Farmington, NM 87401

Phone: (505) 632-1881  
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.  
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.  
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.  
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.  
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 9/1/23

Erick Herrera  
13000 W County RD 100  
Odessa, TX 79765



Project Name: West Eumont Unit #417  
Workorder: E308209  
Date Received: 8/28/2023 9:55:00AM

Erick Herrera,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/28/2023 9:55:00AM, under the Project Name: West Eumont Unit #417.

The analytical test results summarized in this report with the Project Name: West Eumont Unit #417 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

**Walter Hinchman**  
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**West Texas Midland/Odessa Area**  
**Rayny Hagan**  
Technical Representative  
Office: 505-421-LABS(5227)

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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## Sample Summary

Forty Acres Energy, LLC  
13000 W County RD 100  
Odessa TX, 79765

Project Name: West Eumont Unit #417  
Project Number: 23007-0001  
Project Manager: Erick Herrera

**Reported:**  
09/01/23 13:42

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH03 0.5'	E308209-01A	Soil	08/24/23	08/28/23	Glass Jar, 2 oz.
PH03 1'	E308209-02A	Soil	08/24/23	08/28/23	Glass Jar, 2 oz.
PH04 0.5'	E308209-03A	Soil	08/24/23	08/28/23	Glass Jar, 2 oz.
PH04 1'	E308209-04A	Soil	08/24/23	08/28/23	Glass Jar, 2 oz.
PH05 0.5'	E308209-05A	Soil	08/24/23	08/28/23	Glass Jar, 2 oz.
PH05 1'	E308209-06A	Soil	08/24/23	08/28/23	Glass Jar, 2 oz.
PH06 0.5'	E308209-07A	Soil	08/24/23	08/28/23	Glass Jar, 2 oz.
PH06 1'	E308209-08A	Soil	08/24/23	08/28/23	Glass Jar, 2 oz.



## Sample Data

Forty Acres Energy, LLC  
13000 W County RD 100  
Odessa TX, 79765

Project Name: West Eumont Unit #417  
Project Number: 23007-0001  
Project Manager: Erick Herrera

**Reported:**  
9/1/2023 1:42:24PM

PH03 0.5'

E308209-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2335027
Benzene	ND	0.0250	1	08/28/23	08/30/23	
Ethylbenzene	ND	0.0250	1	08/28/23	08/30/23	
Toluene	ND	0.0250	1	08/28/23	08/30/23	
o-Xylene	ND	0.0250	1	08/28/23	08/30/23	
p,m-Xylene	ND	0.0500	1	08/28/23	08/30/23	
Total Xylenes	ND	0.0250	1	08/28/23	08/30/23	
Surrogate: 4-Bromochlorobenzene-PID	93.0 %	70-130		08/28/23	08/30/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2335027
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/28/23	08/30/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	86.0 %	70-130		08/28/23	08/30/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2335061
Diesel Range Organics (C10-C28)	ND	25.0	1	08/30/23	08/30/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/30/23	08/30/23	
Surrogate: n-Nonane	98.8 %	50-200		08/30/23	08/30/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2335038
Chloride	115	20.0	1	08/29/23	08/30/23	



## Sample Data

Forty Acres Energy, LLC  
13000 W County RD 100  
Odessa TX, 79765

Project Name: West Eumont Unit #417  
Project Number: 23007-0001  
Project Manager: Erick Herrera

**Reported:**  
9/1/2023 1:42:24PM

PH03 1'

E308209-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2335027
Benzene	ND	0.0250	1	08/28/23	08/30/23	
Ethylbenzene	ND	0.0250	1	08/28/23	08/30/23	
Toluene	ND	0.0250	1	08/28/23	08/30/23	
o-Xylene	ND	0.0250	1	08/28/23	08/30/23	
p,m-Xylene	ND	0.0500	1	08/28/23	08/30/23	
Total Xylenes	ND	0.0250	1	08/28/23	08/30/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.5 %	70-130		08/28/23	08/30/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2335027
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/28/23	08/30/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	86.3 %	70-130		08/28/23	08/30/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2335061
Diesel Range Organics (C10-C28)	ND	25.0	1	08/30/23	08/30/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/30/23	08/30/23	
<i>Surrogate: n-Nonane</i>						
	93.6 %	50-200		08/30/23	08/30/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2335038
Chloride	115	20.0	1	08/29/23	08/30/23	





## Sample Data

Forty Acres Energy, LLC  
13000 W County RD 100  
Odessa TX, 79765

Project Name: West Eumont Unit #417  
Project Number: 23007-0001  
Project Manager: Erick Herrera

**Reported:**  
9/1/2023 1:42:24PM

PH04 0.5'

E308209-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2335027
Benzene	ND	0.0250	1	08/28/23	08/30/23	
Ethylbenzene	ND	0.0250	1	08/28/23	08/30/23	
Toluene	ND	0.0250	1	08/28/23	08/30/23	
o-Xylene	ND	0.0250	1	08/28/23	08/30/23	
p,m-Xylene	ND	0.0500	1	08/28/23	08/30/23	
Total Xylenes	ND	0.0250	1	08/28/23	08/30/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.2 %	70-130		08/28/23	08/30/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2335027
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/28/23	08/30/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	86.3 %	70-130		08/28/23	08/30/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2335061
Diesel Range Organics (C10-C28)	ND	25.0	1	08/30/23	08/30/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/30/23	08/30/23	
<i>Surrogate: n-Nonane</i>						
	94.7 %	50-200		08/30/23	08/30/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2335038
Chloride	21.2	20.0	1	08/29/23	08/30/23	



## Sample Data

Forty Acres Energy, LLC  
13000 W County RD 100  
Odessa TX, 79765

Project Name: West Eumont Unit #417  
Project Number: 23007-0001  
Project Manager: Erick Herrera

**Reported:**  
9/1/2023 1:42:24PM

## PH04 1'

## E308209-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2335027
Benzene	ND	0.0250	1	08/28/23	08/30/23	
Ethylbenzene	ND	0.0250	1	08/28/23	08/30/23	
Toluene	ND	0.0250	1	08/28/23	08/30/23	
o-Xylene	ND	0.0250	1	08/28/23	08/30/23	
p,m-Xylene	ND	0.0500	1	08/28/23	08/30/23	
Total Xylenes	ND	0.0250	1	08/28/23	08/30/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.2 %	70-130		08/28/23	08/30/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2335027
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/28/23	08/30/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	87.2 %	70-130		08/28/23	08/30/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2335061
Diesel Range Organics (C10-C28)	ND	25.0	1	08/30/23	08/30/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/30/23	08/30/23	
<i>Surrogate: n-Nonane</i>						
	85.0 %	50-200		08/30/23	08/30/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2335038
Chloride	ND	20.0	1	08/29/23	08/30/23	



## Sample Data

Forty Acres Energy, LLC  
13000 W County RD 100  
Odessa TX, 79765

Project Name: West Eumont Unit #417  
Project Number: 23007-0001  
Project Manager: Erick Herrera

**Reported:**  
9/1/2023 1:42:24PM

PH05 0.5'

E308209-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2335027
Benzene	ND	0.0250	1	08/28/23	08/30/23	
Ethylbenzene	ND	0.0250	1	08/28/23	08/30/23	
Toluene	ND	0.0250	1	08/28/23	08/30/23	
o-Xylene	ND	0.0250	1	08/28/23	08/30/23	
p,m-Xylene	ND	0.0500	1	08/28/23	08/30/23	
Total Xylenes	ND	0.0250	1	08/28/23	08/30/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.7 %	70-130		08/28/23	08/30/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2335027
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/28/23	08/30/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	87.7 %	70-130		08/28/23	08/30/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2335061
Diesel Range Organics (C10-C28)	ND	25.0	1	08/30/23	08/30/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/30/23	08/30/23	
<i>Surrogate: n-Nonane</i>						
	89.4 %	50-200		08/30/23	08/30/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2335038
Chloride	26.6	20.0	1	08/29/23	08/30/23	



## Sample Data

Forty Acres Energy, LLC  
13000 W County RD 100  
Odessa TX, 79765

Project Name: West Eumont Unit #417  
Project Number: 23007-0001  
Project Manager: Erick Herrera

**Reported:**  
9/1/2023 1:42:24PM

## PH05 1'

E308209-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2335027
Benzene	ND	0.0250	1	08/28/23	08/30/23	
Ethylbenzene	ND	0.0250	1	08/28/23	08/30/23	
Toluene	ND	0.0250	1	08/28/23	08/30/23	
o-Xylene	ND	0.0250	1	08/28/23	08/30/23	
p,m-Xylene	ND	0.0500	1	08/28/23	08/30/23	
Total Xylenes	ND	0.0250	1	08/28/23	08/30/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.0 %	70-130		08/28/23	08/30/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2335027
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/28/23	08/30/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	86.3 %	70-130		08/28/23	08/30/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2335061
Diesel Range Organics (C10-C28)	ND	25.0	1	08/30/23	08/30/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/30/23	08/30/23	
<i>Surrogate: n-Nonane</i>						
	91.0 %	50-200		08/30/23	08/30/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2335038
Chloride	ND	20.0	1	08/29/23	08/30/23	



## Sample Data

Forty Acres Energy, LLC  
13000 W County RD 100  
Odessa TX, 79765

Project Name: West Eumont Unit #417  
Project Number: 23007-0001  
Project Manager: Erick Herrera

**Reported:**  
9/1/2023 1:42:24PM

PH06 0.5'

E308209-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2335027
Benzene	ND	0.0250	1	08/28/23	08/30/23	
Ethylbenzene	ND	0.0250	1	08/28/23	08/30/23	
Toluene	ND	0.0250	1	08/28/23	08/30/23	
o-Xylene	ND	0.0250	1	08/28/23	08/30/23	
p,m-Xylene	ND	0.0500	1	08/28/23	08/30/23	
Total Xylenes	ND	0.0250	1	08/28/23	08/30/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.6 %	70-130		08/28/23	08/30/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2335027
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/28/23	08/30/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	86.0 %	70-130		08/28/23	08/30/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2335061
Diesel Range Organics (C10-C28)	ND	25.0	1	08/30/23	08/30/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/30/23	08/30/23	
<i>Surrogate: n-Nonane</i>						
	96.7 %	50-200		08/30/23	08/30/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2335038
Chloride	ND	20.0	1	08/29/23	08/30/23	



## Sample Data

Forty Acres Energy, LLC  
13000 W County RD 100  
Odessa TX, 79765

Project Name: West Eumont Unit #417  
Project Number: 23007-0001  
Project Manager: Erick Herrera

**Reported:**  
9/1/2023 1:42:24PM

## PH06 1'

E308209-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2335027
Benzene	ND	0.0250	1	08/28/23	08/30/23	
Ethylbenzene	ND	0.0250	1	08/28/23	08/30/23	
Toluene	ND	0.0250	1	08/28/23	08/30/23	
o-Xylene	ND	0.0250	1	08/28/23	08/30/23	
p,m-Xylene	ND	0.0500	1	08/28/23	08/30/23	
Total Xylenes	ND	0.0250	1	08/28/23	08/30/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.4 %	70-130		08/28/23	08/30/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2335027
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/28/23	08/30/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	85.9 %	70-130		08/28/23	08/30/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2335061
Diesel Range Organics (C10-C28)	ND	25.0	1	08/30/23	08/30/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/30/23	08/30/23	
<i>Surrogate: n-Nonane</i>						
	99.8 %	50-200		08/30/23	08/30/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2335038
Chloride	ND	20.0	1	08/29/23	08/30/23	





## QC Summary Data

Forty Acres Energy, LLC	Project Name:	West Eumont Unit #417	Reported:
13000 W County RD 100	Project Number:	23007-0001	
Odessa TX, 79765	Project Manager:	Erick Herrera	9/1/2023 1:42:24PM

## Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2335027-BLK1)

Prepared: 08/28/23 Analyzed: 08/30/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.37		8.00		92.1	70-130			

## LCS (2335027-BS1)

Prepared: 08/28/23 Analyzed: 08/30/23

Benzene	4.61	0.0250	5.00		92.2	70-130			
Ethylbenzene	4.90	0.0250	5.00		97.9	70-130			
Toluene	4.94	0.0250	5.00		98.8	70-130			
o-Xylene	5.09	0.0250	5.00		102	70-130			
p,m-Xylene	10.1	0.0500	10.0		101	70-130			
Total Xylenes	15.2	0.0250	15.0		101	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.44		8.00		93.0	70-130			

## Matrix Spike (2335027-MS1)

Source: E308209-02

Prepared: 08/28/23 Analyzed: 08/30/23

Benzene	4.07	0.0250	5.00	ND	81.3	54-133			
Ethylbenzene	4.32	0.0250	5.00	ND	86.4	61-133			
Toluene	4.35	0.0250	5.00	ND	87.0	61-130			
o-Xylene	4.47	0.0250	5.00	ND	89.5	63-131			
p,m-Xylene	8.92	0.0500	10.0	ND	89.2	63-131			
Total Xylenes	13.4	0.0250	15.0	ND	89.3	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.43		8.00		92.9	70-130			

## Matrix Spike Dup (2335027-MSD1)

Source: E308209-02

Prepared: 08/28/23 Analyzed: 08/30/23

Benzene	4.18	0.0250	5.00	ND	83.6	54-133	2.69	20	
Ethylbenzene	4.44	0.0250	5.00	ND	88.7	61-133	2.62	20	
Toluene	4.48	0.0250	5.00	ND	89.6	61-130	2.91	20	
o-Xylene	4.66	0.0250	5.00	ND	93.1	63-131	4.02	20	
p,m-Xylene	9.18	0.0500	10.0	ND	91.8	63-131	2.79	20	
Total Xylenes	13.8	0.0250	15.0	ND	92.2	63-131	3.20	20	
Surrogate: 4-Bromochlorobenzene-PID	7.42		8.00		92.8	70-130			



QC Summary Data

Forty Acres Energy, LLC 13000 W County RD 100 Odessa TX, 79765	Project Name: West Eumont Unit #417 Project Number: 23007-0001 Project Manager: Erick Herrera	Reported:  9/1/2023 1:42:24PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2335027-BLK1) Prepared: 08/28/23 Analyzed: 08/30/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.85		8.00		85.6	70-130			

LCS (2335027-BS2) Prepared: 08/28/23 Analyzed: 08/30/23

Gasoline Range Organics (C6-C10)	37.4	20.0	50.0		74.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.90		8.00		86.3	70-130			

Matrix Spike (2335027-MS2) Source: E308209-02 Prepared: 08/28/23 Analyzed: 08/30/23

Gasoline Range Organics (C6-C10)	39.1	20.0	50.0	ND	78.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.98		8.00		87.2	70-130			

Matrix Spike Dup (2335027-MSD2) Source: E308209-02 Prepared: 08/28/23 Analyzed: 08/30/23

Gasoline Range Organics (C6-C10)	36.2	20.0	50.0	ND	72.4	70-130	7.60	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.97		8.00		87.1	70-130			



QC Summary Data

Forty Acres Energy, LLC 13000 W County RD 100 Odessa TX, 79765	Project Name: West Eumont Unit #417 Project Number: 23007-0001 Project Manager: Erick Herrera	Reported:  9/1/2023 1:42:24PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2335061-BLK1)					Prepared: 08/30/23 Analyzed: 08/30/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.0		50.0		96.0	50-200			

LCS (2335061-BS1)					Prepared: 08/30/23 Analyzed: 08/30/23				
Diesel Range Organics (C10-C28)	244	25.0	250		97.5	38-132			
Surrogate: n-Nonane	50.8		50.0		102	50-200			

Matrix Spike (2335061-MS1)					Source: E308208-01		Prepared: 08/30/23 Analyzed: 08/30/23		
Diesel Range Organics (C10-C28)	262	25.0	250	ND	105	38-132			
Surrogate: n-Nonane	50.0		50.0		100	50-200			

Matrix Spike Dup (2335061-MSD1)					Source: E308208-01		Prepared: 08/30/23 Analyzed: 08/30/23		
Diesel Range Organics (C10-C28)	261	25.0	250	ND	105	38-132	0.163	20	
Surrogate: n-Nonane	50.0		50.0		100	50-200			



QC Summary Data

Forty Acres Energy, LLC	Project Name:	West Eumont Unit #417	Reported:
13000 W County RD 100	Project Number:	23007-0001	
Odessa TX, 79765	Project Manager:	Erick Herrera	9/1/2023 1:42:24PM

Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2335038-BLK1)					Prepared: 08/29/23 Analyzed: 08/30/23				
Chloride	ND	20.0							
LCS (2335038-BS1)					Prepared: 08/29/23 Analyzed: 08/30/23				
Chloride	254	20.0	250		102	90-110			
Matrix Spike (2335038-MS1)					Source: E308134-01		Prepared: 08/29/23 Analyzed: 08/30/23		
Chloride	419	20.0	250	162	103	80-120			
Matrix Spike Dup (2335038-MSD1)					Source: E308134-01		Prepared: 08/29/23 Analyzed: 08/30/23		
Chloride	417	20.0	250	162	102	80-120	0.358	20	

QC Summary Report Comment:  
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures.  
Therefore, hand calculated values may differ slightly.



Definitions and Notes

Forty Acres Energy, LLC	Project Name:	West Eumont Unit #417	
13000 W County RD 100	Project Number:	23007-0001	Reported:
Odessa TX, 79765	Project Manager:	Erick Herrera	09/01/23 13:42

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

Note (1): Methods marked with \*\* are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



## Project Information

## Chain of Custody

Client: Forty Acres Energy, LLC.				Bill To		Lab Use Only				TAT				EPA Program				
Project: West Eumont Unit #417				Attention: Etech Environmental & Safety Solutions, Inc.		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA			
Project Manager: Erick Herrera				Address: 13000 W County Rd 100		E308209		230070001					5 day TAT					
Address: 13000 W County Rd 100				City, State, Zip: Odessa, TX, 79765		Analysis and Method									RCRA			
City, State, Zip: Odessa, TX, 79765				Phone: (432)563-2200		Depth(ft.)	TPH GRQ/DRO/ORO 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 3000	BGDOX NM	GDOX TX	State				
Phone: (281)777-4152				Email:										NM	CO	UT	AZ	TX
Email: erick@etechenv.com, joseph@etechenv.com				WO: N/A														
Collected by: Edyte Konan				Incident ID: nAPP2222156995										Remarks				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number													
11:00	8/24/2023	S	1	PH03	1	0.5'						X						
11:10	8/24/2023	S	1	PH03	2	1'						X						
11:20	8/24/2023	S	1	PH04	3	0.5'						X						
11:30	8/24/2023	S	1	PH04	4	1'						X						
11:40	8/24/2023	S	1	PH05	5	0.5'						X						
11:50	8/24/2023	S	1	PH05	6	1'						X						
12:00	8/24/2023	S	1	PH06	7	0.5'						X						
12:10	8/24/2023	S	1	PH06	8	1'						X						
Additional Instructions:																		
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.										Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.								
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only										
<i>[Signature]</i>		08/25/23	15:00	<i>Michelle Gonzales</i>		08-25-23	1500	Received on ice: <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 T2 T3										
<i>Michelle Gonzales</i>		08-25-23	1700	<i>Co. [Signature]</i>		8/28/23	9:55											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C <u>4</u>										
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA								
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																		



## Envirotech Analytical Laboratory

Printed: 8/28/2023 1:19:48PM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Forty Acres Energy, LLC	Date Received:	08/28/23 09:55	Work Order ID:	E308209
Phone:	(281) 777-4152	Date Logged In:	08/28/23 10:16	Logged In By:	Caitlin Mars
Email:	erick@etechnv.com	Due Date:	09/01/23 17:00 (4 day TAT)		

**Chain of Custody (COC)**

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: Courier**Comments/Resolution****Sample Turn Around Time (TAT)**

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

**Sample Cooler**

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

**Sample Container**

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

**Field Label**

20. Were field sample labels filled out with the minimum information:
  - Sample ID? Yes
  - Date/Time Collected? Yes
  - Collectors name? No

**Sample Preservation**

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

**Multiphase Sample Matrix**

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

**Subcontract Laboratory**

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

**Client Instruction**

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

November 21, 2023

TRAVIS CASEY

TERRACON CONSULTANTS

5827 50TH ST. SUITE 1

LUBBOCK, TX 79424

RE: WEST EUMONT UNIT LW WHITE BATT

Enclosed are the results of analyses for samples received by the laboratory on 11/20/23 12:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Mike Snyder". The signature is fluid and cursive, with the first name "Mike" and last name "Snyder" clearly distinguishable.

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

TERRACON CONSULTANTS  
 TRAVIS CASEY  
 5827 50TH ST. SUITE 1  
 LUBBOCK TX, 79424  
 Fax To:

Received: 11/20/2023  
 Reported: 11/21/2023  
 Project Name: WEST EUMONT UNIT LW WHITE BATT  
 Project Number: KH237050  
 Project Location: NONE

Sampling Date: 11/20/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: PH04 0.5-1' (H236314-01)**

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/21/2023	ND	1.90	94.8	2.00	15.0		
Toluene*	<0.050	0.050	11/21/2023	ND	2.05	102	2.00	16.0		
Ethylbenzene*	<0.050	0.050	11/21/2023	ND	2.03	101	2.00	16.1		
Total Xylenes*	<0.150	0.150	11/21/2023	ND	6.21	104	6.00	16.1		
Total BTX	<0.300	0.300	11/21/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/21/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/21/2023	ND	195	97.4	200	2.46	
DRO >C10-C28*	<10.0	10.0	11/21/2023	ND	183	91.5	200	1.17	
EXT DRO >C28-C36	<10.0	10.0	11/21/2023	ND					

Surrogate: 1-Chlorooctane 92.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.2 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TERRACON CONSULTANTS  
 TRAVIS CASEY  
 5827 50TH ST. SUITE 1  
 LUBBOCK TX, 79424  
 Fax To:

Received: 11/20/2023  
 Reported: 11/21/2023  
 Project Name: WEST EUMONT UNIT LW WHITE BATT  
 Project Number: KH237050  
 Project Location: NONE

Sampling Date: 11/20/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: PH05 0.5-1' (H236314-02)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/21/2023	ND	1.90	94.8	2.00	15.0	
Toluene*	<0.050	0.050	11/21/2023	ND	2.05	102	2.00	16.0	
Ethylbenzene*	<0.050	0.050	11/21/2023	ND	2.03	101	2.00	16.1	
Total Xylenes*	<0.150	0.150	11/21/2023	ND	6.21	104	6.00	16.1	
Total BTEx	<0.300	0.300	11/21/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/21/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/21/2023	ND	195	97.4	200	2.46	
DRO >C10-C28*	<10.0	10.0	11/21/2023	ND	183	91.5	200	1.17	
EXT DRO >C28-C36	<10.0	10.0	11/21/2023	ND					

Surrogate: 1-Chlorooctane 86.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.7 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TERRACON CONSULTANTS  
 TRAVIS CASEY  
 5827 50TH ST. SUITE 1  
 LUBBOCK TX, 79424  
 Fax To:

Received: 11/20/2023  
 Reported: 11/21/2023  
 Project Name: WEST EUMONT UNIT LW WHITE BATT  
 Project Number: KH237050  
 Project Location: NONE

Sampling Date: 11/20/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Dionica Hinojos

**Sample ID: PH06 0.5-1' (H236314-03)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/21/2023	ND	1.90	94.8	2.00	15.0		
Toluene*	<0.050	0.050	11/21/2023	ND	2.05	102	2.00	16.0		
Ethylbenzene*	<0.050	0.050	11/21/2023	ND	2.03	101	2.00	16.1		
Total Xylenes*	<0.150	0.150	11/21/2023	ND	6.21	104	6.00	16.1		
Total BTEx	<0.300	0.300	11/21/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	11/21/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/20/2023	ND	201	100	200	3.94	
DRO >C10-C28*	<10.0	10.0	11/20/2023	ND	194	97.2	200	11.4	
EXT DRO >C28-C36	<10.0	10.0	11/20/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

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### Notes and Definitions

QR-04	The RPD for the BS/BSD was outside of historical limits.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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\*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Mike Snyder".

---

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager





101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

Page 6 of 6



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

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December 04, 2023

TRAVIS CASEY

TERRACON CONSULTANTS

5827 50TH ST. SUITE 1

LUBBOCK, TX 79424

RE: WEST EUMONT UNIT LW WHITE BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 11/29/23 13:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

TERRACON CONSULTANTS  
 TRAVIS CASEY  
 5827 50TH ST. SUITE 1  
 LUBBOCK TX, 79424  
 Fax To:

Received:	11/29/2023	Sampling Date:	11/29/2023
Reported:	12/04/2023	Sampling Type:	Soil
Project Name:	WEST EUMONT UNIT LW WHITE BATTEI	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	40 ACRES		

**Sample ID: PH04 1.5' (H236424-01)**

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/30/2023	ND	1.77	88.3	2.00	10.6	
Toluene*	<0.050	0.050	11/30/2023	ND	1.79	89.5	2.00	11.2	
Ethylbenzene*	<0.050	0.050	11/30/2023	ND	1.89	94.5	2.00	11.4	
Total Xylenes*	<0.150	0.150	11/30/2023	ND	5.76	96.0	6.00	11.5	
Total BTX	<0.300	0.300	11/30/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/30/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/30/2023	ND	215	107	200	4.39	
DRO >C10-C28*	<10.0	10.0	11/30/2023	ND	195	97.4	200	4.76	
EXT DRO >C28-C36	<10.0	10.0	11/30/2023	ND					

Surrogate: 1-Chlorooctane 84.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.1 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TERRACON CONSULTANTS  
 TRAVIS CASEY  
 5827 50TH ST. SUITE 1  
 LUBBOCK TX, 79424  
 Fax To:

Received:	11/29/2023	Sampling Date:	11/29/2023
Reported:	12/04/2023	Sampling Type:	Soil
Project Name:	WEST EUMONT UNIT LW WHITE BATTEI	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	40 ACRES		

**Sample ID: PH05 1.5' (H236424-02)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/30/2023	ND	1.77	88.3	2.00	10.6		
Toluene*	<0.050	0.050	11/30/2023	ND	1.79	89.5	2.00	11.2		
Ethylbenzene*	<0.050	0.050	11/30/2023	ND	1.89	94.5	2.00	11.4		
Total Xylenes*	<0.150	0.150	11/30/2023	ND	5.76	96.0	6.00	11.5		
Total BTEX	<0.300	0.300	11/30/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/30/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/30/2023	ND	215	107	200	4.39	
DRO >C10-C28*	<10.0	10.0	11/30/2023	ND	195	97.4	200	4.76	
EXT DRO >C28-C36	<10.0	10.0	11/30/2023	ND					

Surrogate: 1-Chlorooctane 79.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.3 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TERRACON CONSULTANTS  
 TRAVIS CASEY  
 5827 50TH ST. SUITE 1  
 LUBBOCK TX, 79424  
 Fax To:

Received:	11/29/2023	Sampling Date:	11/29/2023
Reported:	12/04/2023	Sampling Type:	Soil
Project Name:	WEST EUMONT UNIT LW WHITE BATTEI	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	40 ACRES		

**Sample ID: PH06 1.5' (H236424-03)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/30/2023	ND	1.77	88.3	2.00	10.6		
Toluene*	<0.050	0.050	11/30/2023	ND	1.79	89.5	2.00	11.2		
Ethylbenzene*	<0.050	0.050	11/30/2023	ND	1.89	94.5	2.00	11.4		
Total Xylenes*	<0.150	0.150	11/30/2023	ND	5.76	96.0	6.00	11.5		
Total BTEx	<0.300	0.300	11/30/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/30/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/30/2023	ND	215	107	200	4.39	
DRO >C10-C28*	<10.0	10.0	11/30/2023	ND	195	97.4	200	4.76	
EXT DRO >C28-C36	<10.0	10.0	11/30/2023	ND					

Surrogate: 1-Chlorooctane 82.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



---

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### Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

---

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\*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Celey D. Keene", written over a horizontal line.

---

Celey D. Keene, Lab Director/Quality Manager





101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Cardinal</u>		P.O. #:		ANALYSIS REQUEST			
Project Manager: <u>Travis Casey</u>		Company: <u>40 Acres</u>					
Address: <u>4826 W. Pierce St</u>		Attn: <u>Scenes Manager</u>					
City: <u>Carlsbad</u>		Address:					
Phone #: <u>575 689 5949</u>		City:					
Project #: <u>        </u>		State:					
Project Name: <u>West Eumant unit in white Butte</u>		Zip:					
Project Location:		Phone #:					
Sampler Name: <u>Travis Casey</u>		Fax #:					
FOR LAB USE ONLY							
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX		PRESERV.	SAMPLING
				GROUNDWATER			
				WASTEWATER			
				SOIL			
				OIL			
				SLUDGE			
				OTHER:			
				ACID/BASE:			
				ICE / COOL			
				OTHER:			
				DATE	TIME		
<u>H3364124</u>	<u>PH041</u>	<u>1.5</u>	<u>1</u>	<u>11-24</u>	<u>1030</u>	<u>✓</u>	<u>CL</u>
<u>3</u>	<u>PH05</u>	<u>1.5</u>	<u>1</u>	<u>11-24</u>	<u>1035</u>	<u>✓</u>	<u>BTEX</u>
	<u>PH06</u>	<u>1.5</u>	<u>1</u>	<u>11-24</u>	<u>1040</u>	<u>✓</u>	<u>TOH</u>

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: Travis Casey Date: 11-29-23 Received By: Travis Casey Verbal Result: ☐ Yes ☒ No Add'l Phone #:         

Relinquished By: Travis Casey Date: 11-29-23 Received By: Travis Casey All Results are emailed. Please provide Email address:         

Delivered By: (Circle One) Observed Temp. °C 4.5 Sample Condition ☒ Cool ☐ Intact ☐ Yes ☐ No CHECKED BY: Travis Casey (Initials)

Sampler - UPS - Bus - Other: Corrected Temp. °C          Turnaround Time:          Standard ☒ Rush ☐ Bacteria (only) Sample Condition ☐ Cool ☐ Intact ☐ Yes ☐ No Corrected Temp. °C         

FORM 000-R-3-4 07/11/23 † Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



---

# APPENDIX G

## NMOCD Notifications

**Erick Herrera**

---

**From:** Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>  
**Sent:** Thursday, August 17, 2023 9:22 AM  
**To:** Erick Herrera  
**Cc:** Bratcher, Michael, EMNRD; Velez, Nelson, EMNRD  
**Subject:** RE: [EXTERNAL] (40 Acres Energy - Site Sampling Notification) 8/22 - 8/25/23

Good morning Erick,

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thank you,

Shelly

Shelly Wells \* Environmental Specialist-Advanced  
Environmental Bureau  
EMNRD-Oil Conservation Division  
1220 S. St. Francis Drive | Santa Fe, NM 87505  
(505)469-7520 | [Shelly.Wells@emnrd.nm.gov](mailto:Shelly.Wells@emnrd.nm.gov)  
<http://www.emnrd.state.nm.us/OCD/>

---

**From:** Erick Herrera <erick@etechenv.com>  
**Sent:** Thursday, August 17, 2023 8:11 AM  
**To:** Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>  
**Cc:** Ryan Swift <ryan@faenergyus.com>; James Martinez <james@faenergyus.com>; Joseph Hernandez <joseph@etechenv.com>; Anna Byers <anna@etechenv.com>; Gilbert Moreno <gilbert@etechenv.com>  
**Subject:** [EXTERNAL] (40 Acres Energy - Site Sampling Notification) 8/22 - 8/25/23

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good morning,

40 Acres Energy anticipates conducting confirmation soil sampling activities at the following sites from August 22<sup>nd</sup> through August 25<sup>th</sup>.

Proposed Date: August 22, 2023, August 23, 2023, August 24, 2023, August 25, 2023  
Proposed Timeframe: 0800 – 1700 hrs.  
Site Name: West Eumont Unit #417/LW2 Battery  
Incident Number: nAPP2222156995  
API#: 30-025-44254

Proposed Date: August 22, 2023, August 23, 2023, August 24, 2023, August 25, 2023  
Proposed Timeframe: 0800 – 1700 hrs.  
Site Name: State WE H Battery  
Incident Number: nAPP2321636998

API#: 30-025-03372

Proposed Date: August 22, 2023, August 23, 2023, August 24, 2023, August 25, 2023

Proposed Timeframe: 0800 – 1700 hrs.

Site Name: Atlantic State #003

Incident Number: nAPP2321654246

API#: 30-025-03508

Thank you,

**Erick Herrera**

Staff Geologist



Work: (432) 305-6416

Cell: (281) 777-4152

---

# APPENDIX H

## Original Submitted DRR



# DEFERRAL REQUEST REPORT

**West Eumont Unit LW White 2 Battery**

**Lea County, New Mexico**

**Incident Number NAPP2222156995**

**Prepared for:**

**Forty Acres Energy, LLC**

**11757 Katy Freeway, Suite 725**

**Houston, TX 77079**

Carlsbad • Midland • San Antonio • Lubbock • Hobbs • Lafayette



## SYNOPSIS

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Forty Acres Energy, LLC (FAE), presents the following Deferral Request Report (DRR) detailing site assessment and soil sampling activities performed for an inadvertent release of crude oil at the West Eumont Unit LW White 2 Battery (Site). Based on field observations, information provided by FAE, and review of the laboratory analytical results from soil sampling activities at the Site, FAE requests to defer residual soil impacts beneath and immediately adjacent to active production equipment until decommissioning or major facility deconstruction of the Site, whichever comes first.

## SITE LOCATION AND RELEASE BACKGROUND

The Site is located in Unit O, Section 34, Township 20 South, Range 36 East, in Lea County, New Mexico (32.5242°, -103.34°) and is associated with oil and gas exploration and production operations on Private Land (**Figure 1 in Appendix A**).

On August 1, 2022, it was discovered that there was a hole in the bottom of a tank which resulted in approximately 7 barrels (bbls) of crude oil to be released within the secondary containment earthen berm. Vacuum trucks were immediately dispatched and recovered approximately 5 bbls of crude oil. FAE reported the release to the NMOCD on a Release Notification and Corrective Action Form C-141 (Form C-141), which was received by the NMOCD on August 10, 2022, and was subsequently assigned Incident Number NAPP2222156995. Initial response efforts included relocation of two tanks and removal of immediate soil impacts up to 2 feet below ground surface (bgs) based on visual observation, totaling 56 cubic yards (CYs). FAE provided a map of the release extent which is presented as the Area of Concern (AOC) on **Figure 2 in Appendix A**. FAE has since backfilled the excavation inside the containment with caliche in an effort to restore the foundation near the tanks and eliminate potential safety hazards before replacing the tanks in their original locations.

## SITE CHARACTERIZATION AND CLOSURE CRITERIA

Etech characterized the Site according to Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC) considering depth to groundwater and the proximity to:

- Any continuously flowing watercourse or any other significant watercourse;
- Any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark);
- An occupied permanent residence, school, hospital, institution or church;
- A spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes;
- Any freshwater well or spring;
- Incorporated municipal boundaries or a defined municipal fresh water well field covered under a municipal ordinance;
- A wetland;
- A subsurface mine;
- An unstable area (i.e. high karst potential); and
- A 100-year floodplain.

Depth to groundwater at the Site is estimated to be greater than 100 feet bgs based on New Mexico Office of the State Engineer (NMOSE) permitted soil boring CP-01975-POD1 that was recently drilled by Coffey Drilling, located approximately 0.35-mile south of the Site. The soil boring location may be referenced on **Figure 1 in Appendix A**. Using a truck mounted rotary drill rig equipped with hollow stem auger, the soil boring was advanced to a total depth of 160 feet bgs. No fluids were observed throughout



the drilling process nor after a 72-hour observation period. The referenced well record for the soil boring is provided in **Appendix B**. All other potential receptors are not within the established buffers in NMAC 19.15.29.12. Receptor details and sources used for the site characterization are included in **Figure 1** in **Appendix A**.

Based on the results from the desktop review and estimated regional depth to groundwater at the Site, the following Closure Criteria was applied:

Constituents of Concern (COCs)	Laboratory Analytical Method	Closure Criteria <sup>†</sup>
Chloride	Environmental Protection Agency (EPA) 300.0	20,000 milligram per kilogram (mg/kg)
TPH (Total Petroleum Hydrocarbon)	EPA 8015 M/D	2,500 mg/kg
Gasoline Range Organics (GRO) + Diesel Range Organics (DRO)	EPA 8015 M/D	1,000 mg/kg
Benzene	EPA 8021B	10 mg/kg
Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX)	EPA 8021B	50 mg/kg

<sup>†</sup>The reclamation standard concentration requirements of 600 mg/kg chloride and 100 mg/kg TPH apply to the top 4 feet of areas to be immediately reclaimed following remediation pursuant to NMAC 19.15.17.13.

## SITE ASSESSMENT AND DELINEATION SOIL SAMPLING ACTIVITIES

From August 7, 2023, to August 24, 2023, Etech conducted site assessment and delineation activities to confirm details of the release provided on the Form C-141 and information provided by FAE and to verify the presence or absence of impacted soil associated with the AOC. Six delineation potholes (PH01 through PH06) were advanced via mechanical equipment and/or hand auger, which were driven by field screening soil for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. A minimum of two samples were collected from each delineation soil sample location, representing the highest observed field screening concentrations and the greatest depth. Field screening results and soil descriptions are included on soil sampling logs shown in **Appendix C**. The locations of the delineation soil samples are shown in **Figure 2** in **Appendix A**. Photographic documentation of delineation activities is included in **Appendix D**.

The delineation soil samples were placed directly into lab provided pre-cleaned jars, packed with minimal void space, labeled, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures, to Envirotech, Inc. (Envirotech) in Farmington, New Mexico, for analysis of COCs.

## LABORATORY ANALYTICAL RESULTS

Laboratory analytical results indicated that concentrations of COCs for all delineation soil samples collected around the AOC were below the applicable Site Closure Criteria. Laboratory analytical results indicated elevated TPH-GRO/TPH-DRO and TPH existed within the AOC up to 4 feet bgs. Laboratory analytical results are summarized in **Table 1** in **Attachment E**, and the complete laboratory reports with chain-of-custody documentation are included in **Attachment F**.

## DEFERRAL REQUEST

Based on the data collected from the delineation soil samples, FAE requests to defer the remaining residual impacts within the secondary containment earthen berm, considering the following:





- Depth to groundwater is estimated to be greater than 100 feet bgs based on NMOSE permitted soil boring CP-01975-POD1, and no other sensitive receptors are within the applicable buffer ranges.
- According to laboratory analytical results of delineation soil samples inside the AOC, impacts do not appear to exceed 4 feet bgs within AOC in the vicinity of PH02. Remaining residual impacts associated with the inadvertent release reside beneath and immediately adjacent to an above ground storage tank and above-ground utilities. Further removal of impacted soil would likely compromise the structural integrity of said active production equipment and above-ground utilities. The approximate area of the proposed deferral area is presented on **Figure 3** in **Appendix A**.
- Laboratory analyses for all delineation soil samples collected outside the secondary containment earthen berm yielded COC concentrations below the applicable Site Closure Criteria. As such, FAE believes that the horizontal periphery of the AOC is sufficiently defined.
- Based on the laboratory analytical data and corrective actions detailed in this DRR, residual impacts associated with the inadvertent release have been excavated to the maximum extent practical and sufficiently delineated in accordance with the applicable Site Closure Criteria. FAE believes the completed remedial actions have mitigated impacts at the Site and fulfilled requirements set forth in NMAC 19.15.29.13 regulations in order to be protective of human health, the environment and groundwater. As such, FAE requests consideration for the deferral of approximately 200 CYs of impacted soil associated with Incident Number NAPP2222156995 until decommissioning or major facility deconstruction of the Site, whichever comes first.

If you have any questions or comments, please do not hesitate to contact Joseph Hernandez at (281) 702-2329 or [joseph@etechenv.com](mailto:joseph@etechenv.com) or Erick Herrera at (281) 777-4152 or [erick@etechenv.com](mailto:erick@etechenv.com). **Appendix G** provides correspondence email notification receipts associated with the subject release.

Sincerely,

eTECH Environmental and Safety Solutions, Inc.

Erick Herrera  
Staff Geologist

Joseph S. Hernandez  
Senior Managing Geologist

cc: David Schellstede, Forty Acres Energy  
New Mexico Oil Conservation Division



**Appendices:**

<b>Appendix A</b>	Figure 1: Site Map Figure 2: Delineation Soil Sample Locations Figure 3: Deferral Request
<b>Appendix B</b>	Referenced Well Records
<b>Appendix C</b>	Soil Sampling Logs
<b>Appendix D</b>	Photographic Log
<b>Appendix E</b>	Tables
<b>Appendix F</b>	Laboratory Analytical Reports & Chain-of-Custody Documentation
<b>Appendix G</b>	NMOCD Notifications

---

# APPENDIX A

## Figures



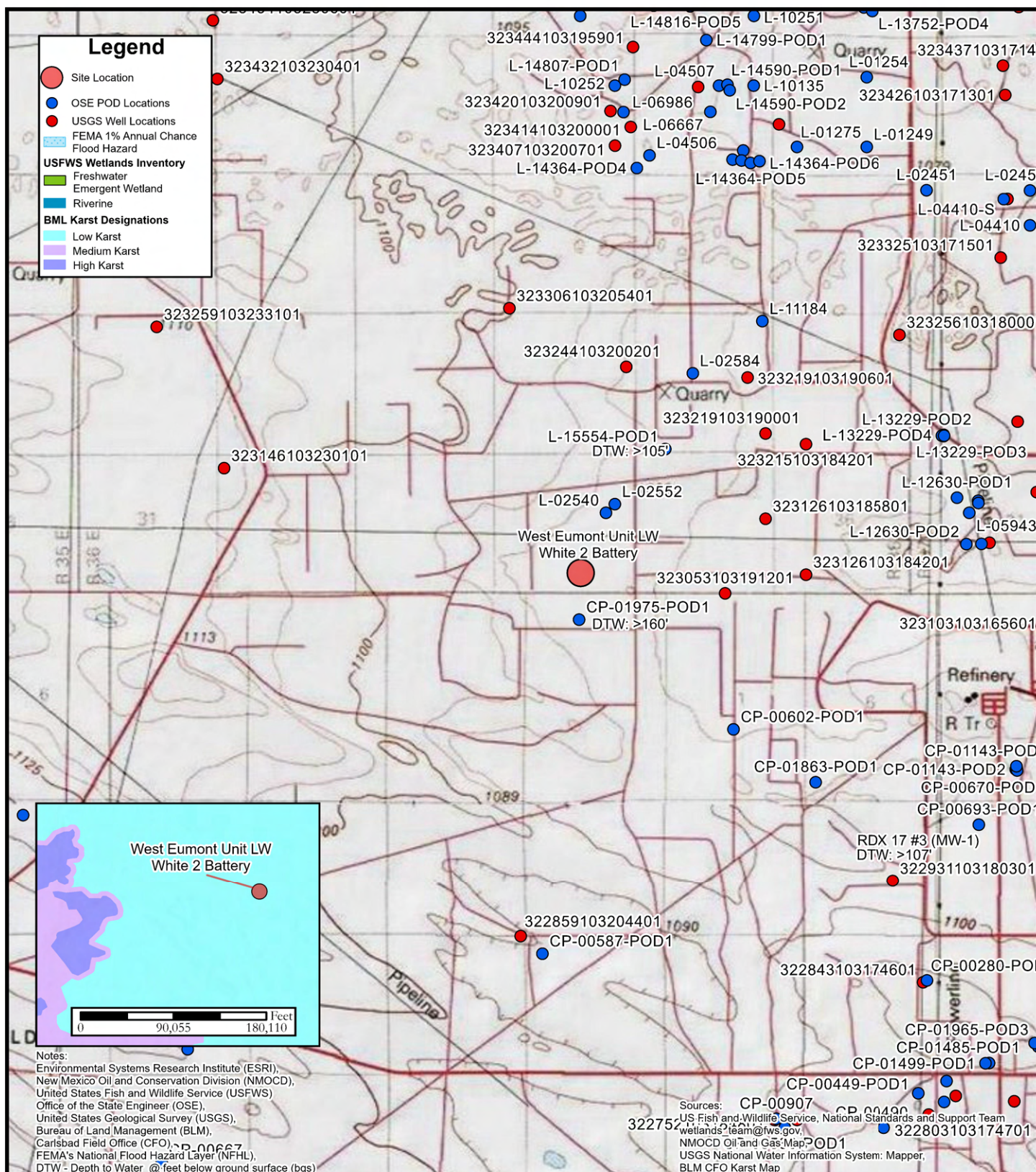


FIGURE 1

**Site Map**

Forty Acres Energy, LLC  
 West Eumont Unit LW White Battery  
 Unit O Sec 34 T20S R36E  
 Lea County, New Mexico

**eTECH**



0 1,250 2,500 Feet









---

## APPENDIX B

### Referenced Well Records





# WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

[www.ose.state.nm.us](http://www.ose.state.nm.us)

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD-1		WELL TAG ID NO. 213A19		OSE FILE NO(S). CP-1975			
	WELL OWNER NAME(S) Clay Tom Cooper				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS Box 6				CITY Monument	STATE NM	ZIP 88265	
	WELL LOCATION (FROM GPS)	DEGREES 32	MINUTES 31	SECONDS 09.6	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84		
		LATITUDE	103	20				24.7
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1839		NAME OF LICENSED DRILLER Boyd Coffey			NAME OF WELL DRILLING COMPANY Coffey Drilling		
	DRILLING STARTED 8-24-2023		DRILLING ENDED 8-24-2023		DEPTH OF COMPLETED WELL (FT) 160	BORE HOLE DEPTH (FT) 160	DEPTH WATER FIRST ENCOUNTERED (FT) NA	
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) NA		
	DRILLING FLUID: <input type="checkbox"/> AIR <input checked="" type="checkbox"/> MUD ADDITIVES – SPECIFY:							
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER – SPECIFY:							
	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	20	10	PVC	bell	5	sdr 21	
	20	100	8.75	PVC	bell	5	sdr 21	
	100	120	8.75	PVC	bell	5	sdr 21	0.020
	120	160	8.75	PVC	bell	5	sdr 21	
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						
	0	20	10	3/8 Bentonite hole plug	8	Pour		
	20	160	8.75	3/8 pea gravel	38	Pour		

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	FROM	TO				
	0	5	5	Red Sandy Top Soil	Y    ✓ N	
	5	46	41	White Caliche	Y    ✓ N	
	46	94	48	Tan soft SandStone	Y    ✓ N	
	94	101	7	Red clay	Y    ✓ N	
	101	108	7	Course sand/gravel	Y    ✓ N	
	108	160	52	Red Clay	Y    ✓ N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
					Y    N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input checked="" type="checkbox"/> BAILER <input type="checkbox"/> OTHER – SPECIFY:					TOTAL ESTIMATED WELL YIELD (gpm):            0.00	

5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.
	MISCELLANEOUS INFORMATION:	
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:	

6. SIGNATURE	BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.	
	<div style="display: flex; justify-content: space-between;"> <div>_____ SIGNATURE OF DRILLER / PRINT SIGNEE NAME</div> <div>_____ DATE</div> </div>	

FOR OSE INTERNAL USE

WR-20 WELL RECORD &amp; LOG (Version 04/30/2019)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 2 OF 2

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## APPENDIX C

### Soil Sampling Logs



Sample Name: PH01      Date: 08/24/2023  
 Site Name: West Eumont Unit LW White 2 Battery  
 Incident Number: NAPP2222156995  
 Job Number: 18340

### LITHOLOGIC / SOIL SAMPLING LOG

Site Coordinates: 32.5242, -103.34      Logged By: EK      Method: Backhoe  
 Hole Diameter: N/A      Total Depth: 6'

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	1,744	83.1	Yes	PH01	0.5	0	SW-SM	(0-4') SAND, dry, reddish brown, well graded fine to coarse grained, with silt and gravel, some staining, hydrocarbon odor.
-	-	-	-	-	1	1		
Dry	192	98.0	Yes		2	2		(4-6') SAND, dry, reddish brown, well graded fine to coarse grained, with silt and gravel no staining, no odor.
-	-	-	-	-		3		
Dry	356	25.2	Yes	PH01	4	4		
-	-	-	-	-		5		
Dry	192	0.8	No	PH01	6	6		

Total Depth



Sample Name: PH02      Date: 08/24/2023  
 Site Name: West Eumont Unit LW White 2 Battery  
 Incident Number: NAPP2222156995  
 Job Number: 18340

**LITHOLOGIC / SOIL SAMPLING LOG**

Logged By: EK      Method: Backhoe

Site Coordinates: 32.5242, -103.34


Hole Diameter: N/A

Total Depth: 6'


Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.


Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	1,700	310.1	Yes	PH02	0.5	0	SW-SM	(0-4') SAND, dry, reddish brown, well graded fine to coarse grained, with silt and gravel, some staining, hydrocarbon odor.
-	-	-	-	-		1		
Dry	216	317.1	Yes		2	2		(4-6') SAND, dry, reddish brown, well graded fine to coarse grained, with silt and gravel no staining, no odor.
-	-	-	-	-		3		
Dry	680	184.8	Yes	PH02	4	4		
-	-	-	-	-	5	5		
Dry	<112	0.4	No	PH02	6	6		


Total Depth

								Sample Name: PH03		Date: 08/24/2023	
								Site Name: West Eumont Unit LW White 2 Battery			
								Incident Number: NAPP2222156995			
								Job Number: 18340			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: EK		Method: Hand Auger	
Site Coordinates: 32.5242, -103.34								Hole Diameter: 4"		Total Depth: 1'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes			
Dry	180	0.3	No	PH03	0.5	0	SP	(0-1') SAND, dry, light brown, poorly graded, very fine to fine grained, no staining no odor.			
Dry	180	0.0	No	PH03	1	1					
Total Depth											



								Sample Name: PH04		Date: 08/24/2023	
								Site Name: West Eumont Unit LW White 2 Battery			
								Incident Number: NAPP2222156995			
								Job Number: 18340			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: EK		Method: Hand Auger	
Site Coordinates: 32.5242, -103.34								Hole Diameter: 4"		Total Depth: 1'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes			
Dry	<112	0.0	No	PH04	0.5	0	SP	(0-1') SAND, dry, light brown, poorly graded, very fine to fine grained, no staining no odor.			
Dry	<112	0.0	No	PH04	1	1					
Total Depth											

								Sample Name: PH05		Date: 08/24/2023			
								Site Name: West Eumont Unit LW White 2 Battery					
								Incident Number: NAPP2222156995					
								Job Number: 18340					
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: EK		Method: Hand Auger			
Site Coordinates: 32.5242, -103.34								Hole Diameter: 4"		Total Depth: 1'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.													
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes					
Dry	<112	0.0	No	PH05	0.5	0	SP	(0-1') SAND, dry, light brown, poorly graded, very fine to fine grained, no staining no odor.					
Dry	<112	0.0	No	PH05	1	1							
Total Depth													

								Sample Name: PH06		Date: 08/24/2023	
								Site Name: West Eumont Unit LW White 2 Battery			
								Incident Number: NAPP2222156995			
								Job Number: 18340			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: EK		Method: Hand Auger	
Site Coordinates: 32.5242, -103.34								Hole Diameter: 4"		Total Depth: 1'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes			
Dry	<112	1.0	No	PH06	0.5	0	SP	(0-1') SAND, dry, light brown, poorly graded, very fine to fine grained, no staining no odor.			
Dry	<112	0.0	No	PH06	1	1					
Total Depth											

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## APPENDIX D

### Photographic Log

# eTECH

## PHOTOGRAPHIC LOG

Forty Acres Energy, LLC

West Eumont Unit LW White 2 Battery

Incident Number NAPP2222156995

**Photograph 1****Date: 08/07/2023**

Description: Northeastern view during Site assessment activities.

**Photograph 2****Date: 08/24/2023**

Description: Southeastern view of delineation activities.

**Photograph 3****Date: 08/24/2023**

Description: Southeastern view of delineation activities.

**Photograph 4****Date: 08/24/2023**

Description: Northwestern view of delineation activities.

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# APPENDIX E

## Tables





**Table 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
**Forty Acres Energy, LLC**  
**West Eumont Unit LW White 2 Battery**  
**Lea County, New Mexico**

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	DRO+GRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria for Soils Impacted by a Release (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Delineation Soil Samples - Incident Number NAPP2222156995										
PH01	08/24/2023	0.5	<0.0250	1.60	35.7	11,800	<5,000	<b>11,800</b>	<b>11,800</b>	1,980
PH01	08/24/2023	4	<0.0250	<0.0500	<20.0	168	64.3	232.3	232.3	841
PH01	08/24/2023	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<50.0	107
PH02	08/24/2023	0.5	0.0324	7.81	99.3	13,200	<5,000	<b>13,200</b>	<b>13,200</b>	1,240
PH02	08/24/2023	4	<0.0250	1.32	36.9	4,850	<5,000	<b>4,886.9</b>	<b>4,886.9</b>	576
PH02	08/24/2023	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<50.0	68.3
PH03	08/24/2023	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<50.0	115
PH03	08/24/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<50.0	115
PH04	08/24/2023	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<50.0	21.2
PH04	08/24/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<50.0	<20.0
PH05	08/24/2023	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<50.0	26.6
PH05	08/24/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<50.0	<20.0
PH06	08/24/2023	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<50.0	<20.0
PH06	08/24/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	<50.0	<20.0

## Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

Text in "grey" represents excavated soil samples

Concentrations in **bold** exceed the NMOCD Table I Closure Criteria and/or Reclamation Standard for Soils Impacted by a Release

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## APPENDIX F

### Laboratory Analytical Reports & Chain-of-Custody Documentation

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P.O. Box 62228 Midland • TX • 79711 • Tel: 432-563-2200 • Fax: 432-563-2213



Report to:  
Erick Herrera



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Forty Acres Energy, LLC

Project Name: West Eumont Unit #417

Work Order: E308214

Job Number: 23007-0001

Received: 8/28/2023

Revision: 2

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
9/1/23

5796 U.S. Hwy 64  
Farmington, NM 87401

Phone: (505) 632-1881  
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.  
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.  
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.  
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.  
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 9/1/23

Erick Herrera  
13000 W County RD 100  
Odessa, TX 79765



Project Name: West Eumont Unit #417  
Workorder: E308214  
Date Received: 8/28/2023 9:55:00AM

Erick Herrera,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/28/2023 9:55:00AM, under the Project Name: West Eumont Unit #417.

The analytical test results summarized in this report with the Project Name: West Eumont Unit #417 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

**Walter Hinchman**  
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[whinchman@envirotech-inc.com](mailto:whinchman@envirotech-inc.com)

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**West Texas Midland/Odessa Area**  
**Rayny Hagan**  
Technical Representative  
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Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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Sample Summary

Forty Acres Energy, LLC	Project Name:	West Eumont Unit #417	Reported:
13000 W County RD 100	Project Number:	23007-0001	
Odessa TX, 79765	Project Manager:	Erick Herrera	09/01/23 15:47

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH01 0.5'	E308214-01A	Soil	08/24/23	08/28/23	Glass Jar, 2 oz.
PH01 4'	E308214-02A	Soil	08/24/23	08/28/23	Glass Jar, 2 oz.
PH02 0.5'	E308214-03A	Soil	08/24/23	08/28/23	Glass Jar, 2 oz.
PH02 4'	E308214-04A	Soil	08/24/23	08/28/23	Glass Jar, 2 oz.





## Sample Data

Forty Acres Energy, LLC 13000 W County RD 100 Odessa TX, 79765	Project Name: West Eumont Unit #417 Project Number: 23007-0001 Project Manager: Erick Herrera	<b>Reported:</b> 9/1/2023 3:47:55PM
--	---	--

## PH01 0.5'

## E308214-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2335027	
Benzene	ND	0.0250	1	08/28/23	08/30/23	
Ethylbenzene	ND	0.0250	1	08/28/23	08/30/23	
Toluene	<b>0.0308</b>	0.0250	1	08/28/23	08/30/23	
o-Xylene	<b>0.750</b>	0.0250	1	08/28/23	08/30/23	
p,m-Xylene	<b>0.822</b>	0.0500	1	08/28/23	08/30/23	
Total Xylenes	<b>1.57</b>	0.0250	1	08/28/23	08/30/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		111 %	70-130	08/28/23	08/30/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2335027	
Gasoline Range Organics (C6-C10)	<b>35.7</b>	20.0	1	08/28/23	08/30/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		89.3 %	70-130	08/28/23	08/30/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2335067	
Diesel Range Organics (C10-C28)	<b>11800</b>	2500	100	08/30/23	08/31/23	
Oil Range Organics (C28-C36)	ND	5000	100	08/30/23	08/31/23	
<i>Surrogate: n-Nonane</i>						
		112 %	50-200	08/30/23	08/31/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2335038	
Chloride	<b>1980</b>	20.0	1	08/29/23	08/30/23	



## Sample Data

Forty Acres Energy, LLC  
13000 W County RD 100  
Odessa TX, 79765

Project Name: West Eumont Unit #417  
Project Number: 23007-0001  
Project Manager: Erick Herrera

**Reported:**  
9/1/2023 3:47:55PM

## PH01 4'

## E308214-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2335027
Benzene	ND	0.0250	1	08/28/23	08/30/23	
Ethylbenzene	ND	0.0250	1	08/28/23	08/30/23	
Toluene	ND	0.0250	1	08/28/23	08/30/23	
o-Xylene	ND	0.0250	1	08/28/23	08/30/23	
p,m-Xylene	ND	0.0500	1	08/28/23	08/30/23	
Total Xylenes	ND	0.0250	1	08/28/23	08/30/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.2 %	70-130		08/28/23	08/30/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2335027
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/28/23	08/30/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	85.7 %	70-130		08/28/23	08/30/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2335067
Diesel Range Organics (C10-C28)	168	25.0	1	08/30/23	08/31/23	
Oil Range Organics (C28-C36)	64.3	50.0	1	08/30/23	08/31/23	
<i>Surrogate: n-Nonane</i>						
	91.9 %	50-200		08/30/23	08/31/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2335038
Chloride	841	20.0	1	08/29/23	08/30/23	



## Sample Data

Forty Acres Energy, LLC  
13000 W County RD 100  
Odessa TX, 79765

Project Name: West Eumont Unit #417  
Project Number: 23007-0001  
Project Manager: Erick Herrera

**Reported:**  
9/1/2023 3:47:55PM

PH02 0.5'

E308214-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2335027
Benzene	0.0324	0.0250	1	08/28/23	08/31/23	
Ethylbenzene	1.56	0.0250	1	08/28/23	08/31/23	
Toluene	0.286	0.0250	1	08/28/23	08/31/23	
o-Xylene	2.43	0.0250	1	08/28/23	08/31/23	
p,m-Xylene	3.51	0.0500	1	08/28/23	08/31/23	
Total Xylenes	5.94	0.0250	1	08/28/23	08/31/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		116 %	70-130	08/28/23	08/31/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2335027
Gasoline Range Organics (C6-C10)	99.3	20.0	1	08/28/23	08/31/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		95.7 %	70-130	08/28/23	08/31/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2335067
Diesel Range Organics (C10-C28)	13200	2500	100	08/30/23	08/31/23	
Oil Range Organics (C28-C36)	ND	5000	100	08/30/23	08/31/23	
<i>Surrogate: n-Nonane</i>						
		172 %	50-200	08/30/23	08/31/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2335038
Chloride	1240	20.0	1	08/29/23	08/30/23	



## Sample Data

Forty Acres Energy, LLC  
13000 W County RD 100  
Odessa TX, 79765

Project Name: West Eumont Unit #417  
Project Number: 23007-0001  
Project Manager: Erick Herrera

**Reported:**  
9/1/2023 3:47:55PM

## PH02 4'

## E308214-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2335027
Benzene	ND	0.0250	1	08/28/23	08/31/23	
Ethylbenzene	0.276	0.0250	1	08/28/23	08/31/23	
Toluene	0.0840	0.0250	1	08/28/23	08/31/23	
o-Xylene	0.296	0.0250	1	08/28/23	08/31/23	
p,m-Xylene	0.666	0.0500	1	08/28/23	08/31/23	
Total Xylenes	0.962	0.0250	1	08/28/23	08/31/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	08/28/23	08/31/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2335027
Gasoline Range Organics (C6-C10)	36.9	20.0	1	08/28/23	08/31/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		88.7 %	70-130	08/28/23	08/31/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2335067
Diesel Range Organics (C10-C28)	4850	2500	100	08/30/23	08/31/23	
Oil Range Organics (C28-C36)	ND	5000	100	08/30/23	08/31/23	
<i>Surrogate: n-Nonane</i>						
		118 %	50-200	08/30/23	08/31/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2335038
Chloride	576	20.0	1	08/29/23	08/30/23	



## QC Summary Data

Forty Acres Energy, LLC	Project Name:	West Eumont Unit #417	Reported:
13000 W County RD 100	Project Number:	23007-0001	
Odessa TX, 79765	Project Manager:	Erick Herrera	9/1/2023 3:47:55PM

## Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2335027-BLK1)

Prepared: 08/28/23 Analyzed: 08/30/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.37		8.00		92.1	70-130			

## LCS (2335027-BS1)

Prepared: 08/28/23 Analyzed: 08/30/23

Benzene	4.61	0.0250	5.00		92.2	70-130			
Ethylbenzene	4.90	0.0250	5.00		97.9	70-130			
Toluene	4.94	0.0250	5.00		98.8	70-130			
o-Xylene	5.09	0.0250	5.00		102	70-130			
p,m-Xylene	10.1	0.0500	10.0		101	70-130			
Total Xylenes	15.2	0.0250	15.0		101	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.44		8.00		93.0	70-130			

## Matrix Spike (2335027-MS1)

Source: E308209-02

Prepared: 08/28/23 Analyzed: 08/30/23

Benzene	4.07	0.0250	5.00	ND	81.3	54-133			
Ethylbenzene	4.32	0.0250	5.00	ND	86.4	61-133			
Toluene	4.35	0.0250	5.00	ND	87.0	61-130			
o-Xylene	4.47	0.0250	5.00	ND	89.5	63-131			
p,m-Xylene	8.92	0.0500	10.0	ND	89.2	63-131			
Total Xylenes	13.4	0.0250	15.0	ND	89.3	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.43		8.00		92.9	70-130			

## Matrix Spike Dup (2335027-MSD1)

Source: E308209-02

Prepared: 08/28/23 Analyzed: 08/30/23

Benzene	4.18	0.0250	5.00	ND	83.6	54-133	2.69	20	
Ethylbenzene	4.44	0.0250	5.00	ND	88.7	61-133	2.62	20	
Toluene	4.48	0.0250	5.00	ND	89.6	61-130	2.91	20	
o-Xylene	4.66	0.0250	5.00	ND	93.1	63-131	4.02	20	
p,m-Xylene	9.18	0.0500	10.0	ND	91.8	63-131	2.79	20	
Total Xylenes	13.8	0.0250	15.0	ND	92.2	63-131	3.20	20	
Surrogate: 4-Bromochlorobenzene-PID	7.42		8.00		92.8	70-130			



QC Summary Data

Forty Acres Energy, LLC 13000 W County RD 100 Odessa TX, 79765	Project Name: West Eumont Unit #417 Project Number: 23007-0001 Project Manager: Erick Herrera	Reported:  9/1/2023 3:47:55PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2335027-BLK1) Prepared: 08/28/23 Analyzed: 08/30/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.85		8.00		85.6	70-130			

LCS (2335027-BS2) Prepared: 08/28/23 Analyzed: 08/30/23

Gasoline Range Organics (C6-C10)	37.4	20.0	50.0		74.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.90		8.00		86.3	70-130			

Matrix Spike (2335027-MS2) Source: E308209-02 Prepared: 08/28/23 Analyzed: 08/30/23

Gasoline Range Organics (C6-C10)	39.1	20.0	50.0	ND	78.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.98		8.00		87.2	70-130			

Matrix Spike Dup (2335027-MSD2) Source: E308209-02 Prepared: 08/28/23 Analyzed: 08/30/23

Gasoline Range Organics (C6-C10)	36.2	20.0	50.0	ND	72.4	70-130	7.60	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.97		8.00		87.1	70-130			





QC Summary Data

Forty Acres Energy, LLC 13000 W County RD 100 Odessa TX, 79765	Project Name: West Eumont Unit #417 Project Number: 23007-0001 Project Manager: Erick Herrera	Reported:  9/1/2023 3:47:55PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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<b>Blank (2335067-BLK1)</b>					Prepared: 08/30/23 Analyzed: 08/31/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	46.8		50.0		93.6	50-200			

<b>LCS (2335067-BS1)</b>					Prepared: 08/30/23 Analyzed: 08/31/23				
Diesel Range Organics (C10-C28)	232	25.0	250		93.0	38-132			
Surrogate: n-Nonane	43.1		50.0		86.2	50-200			

<b>Matrix Spike (2335067-MS1)</b>					<b>Source: E308211-01</b>		Prepared: 08/30/23 Analyzed: 08/31/23		
Diesel Range Organics (C10-C28)	253	25.0	250	ND	101	38-132			
Surrogate: n-Nonane	43.9		50.0		87.9	50-200			

<b>Matrix Spike Dup (2335067-MSD1)</b>					<b>Source: E308211-01</b>		Prepared: 08/30/23 Analyzed: 08/31/23		
Diesel Range Organics (C10-C28)	257	25.0	250	ND	103	38-132	1.95	20	
Surrogate: n-Nonane	46.6		50.0		93.2	50-200			



QC Summary Data

Forty Acres Energy, LLC 13000 W County RD 100 Odessa TX, 79765	Project Name: West Eumont Unit #417 Project Number: 23007-0001 Project Manager: Erick Herrera	Reported:  9/1/2023 3:47:55PM
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Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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<b>Blank (2335038-BLK1)</b>				Prepared: 08/29/23 Analyzed: 08/30/23					
Chloride	ND	20.0							
<b>LCS (2335038-BS1)</b>				Prepared: 08/29/23 Analyzed: 08/30/23					
Chloride	254	20.0	250		102	90-110			
<b>Matrix Spike (2335038-MS1)</b>				<b>Source: E308134-01</b>		Prepared: 08/29/23 Analyzed: 08/30/23			
Chloride	419	20.0	250	162	103	80-120			
<b>Matrix Spike Dup (2335038-MSD1)</b>				<b>Source: E308134-01</b>		Prepared: 08/29/23 Analyzed: 08/30/23			
Chloride	417	20.0	250	162	102	80-120	0.358	20	

QC Summary Report Comment:  
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures.  
Therefore, hand calculated values may differ slightly.



Definitions and Notes

Forty Acres Energy, LLC	Project Name:	West Eumont Unit #417	
13000 W County RD 100	Project Number:	23007-0001	Reported:
Odessa TX, 79765	Project Manager:	Erick Herrera	09/01/23 15:47

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

Note (1): Methods marked with \*\* are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



## Page 1 of 1



## Envirotech Analytical Laboratory

Printed: 8/28/2023 1:36:58PM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Forty Acres Energy, LLC	Date Received:	08/28/23 09:55	Work Order ID:	E308214
Phone:	(281) 777-4152	Date Logged In:	08/28/23 10:20	Logged In By:	Caitlin Mars
Email:	erick@etechenv.com	Due Date:	09/01/23 17:00 (4 day TAT)		

**Chain of Custody (COC)**

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: Courier**Comments/Resolution****Sample Turn Around Time (TAT)**

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

**Sample Cooler**

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

**Sample Container**

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

**Field Label**

20. Were field sample labels filled out with the minimum information:
  - Sample ID? Yes
  - Date/Time Collected? Yes
  - Collectors name? No

**Sample Preservation**

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

**Multiphase Sample Matrix**

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

**Subcontract Laboratory**

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

**Client Instruction**

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:  
Erick Herrera



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Forty Acres Energy, LLC

Project Name: West Eumont Unit #417

Work Order: E308211

Job Number: 23007-0001

Received: 8/28/2023

Revision: 2

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
9/1/23

5796 U.S. Hwy 64  
Farmington, NM 87401

Phone: (505) 632-1881  
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.  
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.  
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.  
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.  
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 9/1/23

Erick Herrera  
13000 W County RD 100  
Odessa, TX 79765



Project Name: West Eumont Unit #417  
Workorder: E308211  
Date Received: 8/28/2023 9:55:00AM

Erick Herrera,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/28/2023 9:55:00AM, under the Project Name: West Eumont Unit #417.

The analytical test results summarized in this report with the Project Name: West Eumont Unit #417 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

**Walter Hinchman**  
Laboratory Director  
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Cell: 775-287-1762  
[whinchman@envirotech-inc.com](mailto:whinchman@envirotech-inc.com)

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**Alexa Michaels**  
Sample Custody Officer  
Office: 505-632-1881  
[labadmin@envirotech-inc.com](mailto:labadmin@envirotech-inc.com)

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**Lynn Jarboe**  
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[ljjarboe@envirotech-inc.com](mailto:ljjarboe@envirotech-inc.com)

**West Texas Midland/Odessa Area**  
**Rayny Hagan**  
Technical Representative  
Office: 505-421-LABS(5227)

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)



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Sample Summary

Forty Acres Energy, LLC	Project Name:	West Eumont Unit #417	Reported:
13000 W County RD 100	Project Number:	23007-0001	
Odessa TX, 79765	Project Manager:	Erick Herrera	09/01/23 15:46

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH01 6'	E308211-01A	Soil	08/24/23	08/28/23	Glass Jar, 2 oz.



## Sample Data

Forty Acres Energy, LLC  
13000 W County RD 100  
Odessa TX, 79765

Project Name: West Eumont Unit #417  
Project Number: 23007-0001  
Project Manager: Erick Herrera

**Reported:**  
9/1/2023 3:46:55PM

## PH01 6'

## E308211-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2335027	
Benzene	ND	0.0250	1	08/28/23	08/30/23	
Ethylbenzene	ND	0.0250	1	08/28/23	08/30/23	
Toluene	ND	0.0250	1	08/28/23	08/30/23	
o-Xylene	ND	0.0250	1	08/28/23	08/30/23	
p,m-Xylene	ND	0.0500	1	08/28/23	08/30/23	
Total Xylenes	ND	0.0250	1	08/28/23	08/30/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.7 %	70-130		08/28/23	08/30/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2335027	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/28/23	08/30/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	85.0 %	70-130		08/28/23	08/30/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2335067	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/30/23	08/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/30/23	08/31/23	
<i>Surrogate: n-Nonane</i>						
	94.8 %	50-200		08/30/23	08/31/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2335039	
Chloride	107	20.0	1	08/29/23	08/31/23	



## QC Summary Data

Forty Acres Energy, LLC	Project Name:	West Eumont Unit #417	Reported:
13000 W County RD 100	Project Number:	23007-0001	
Odessa TX, 79765	Project Manager:	Erick Herrera	9/1/2023 3:46:55PM

## Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2335027-BLK1)

Prepared: 08/28/23 Analyzed: 08/30/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.37		8.00		92.1	70-130			

## LCS (2335027-BS1)

Prepared: 08/28/23 Analyzed: 08/30/23

Benzene	4.61	0.0250	5.00		92.2	70-130			
Ethylbenzene	4.90	0.0250	5.00		97.9	70-130			
Toluene	4.94	0.0250	5.00		98.8	70-130			
o-Xylene	5.09	0.0250	5.00		102	70-130			
p,m-Xylene	10.1	0.0500	10.0		101	70-130			
Total Xylenes	15.2	0.0250	15.0		101	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.44		8.00		93.0	70-130			

## Matrix Spike (2335027-MS1)

Source: E308209-02

Prepared: 08/28/23 Analyzed: 08/30/23

Benzene	4.07	0.0250	5.00	ND	81.3	54-133			
Ethylbenzene	4.32	0.0250	5.00	ND	86.4	61-133			
Toluene	4.35	0.0250	5.00	ND	87.0	61-130			
o-Xylene	4.47	0.0250	5.00	ND	89.5	63-131			
p,m-Xylene	8.92	0.0500	10.0	ND	89.2	63-131			
Total Xylenes	13.4	0.0250	15.0	ND	89.3	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.43		8.00		92.9	70-130			

## Matrix Spike Dup (2335027-MSD1)

Source: E308209-02

Prepared: 08/28/23 Analyzed: 08/30/23

Benzene	4.18	0.0250	5.00	ND	83.6	54-133	2.69	20	
Ethylbenzene	4.44	0.0250	5.00	ND	88.7	61-133	2.62	20	
Toluene	4.48	0.0250	5.00	ND	89.6	61-130	2.91	20	
o-Xylene	4.66	0.0250	5.00	ND	93.1	63-131	4.02	20	
p,m-Xylene	9.18	0.0500	10.0	ND	91.8	63-131	2.79	20	
Total Xylenes	13.8	0.0250	15.0	ND	92.2	63-131	3.20	20	
Surrogate: 4-Bromochlorobenzene-PID	7.42		8.00		92.8	70-130			



QC Summary Data

Forty Acres Energy, LLC 13000 W County RD 100 Odessa TX, 79765	Project Name: West Eumont Unit #417 Project Number: 23007-0001 Project Manager: Erick Herrera	Reported:  9/1/2023 3:46:55PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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<b>Blank (2335027-BLK1)</b>					Prepared: 08/28/23 Analyzed: 08/30/23				
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.85		8.00		85.6	70-130			
<b>LCS (2335027-BS2)</b>					Prepared: 08/28/23 Analyzed: 08/30/23				
Gasoline Range Organics (C6-C10)	37.4	20.0	50.0		74.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.90		8.00		86.3	70-130			
<b>Matrix Spike (2335027-MS2)</b>					<b>Source: E308209-02</b>		Prepared: 08/28/23 Analyzed: 08/30/23		
Gasoline Range Organics (C6-C10)	39.1	20.0	50.0	ND	78.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.98		8.00		87.2	70-130			
<b>Matrix Spike Dup (2335027-MSD2)</b>					<b>Source: E308209-02</b>		Prepared: 08/28/23 Analyzed: 08/30/23		
Gasoline Range Organics (C6-C10)	36.2	20.0	50.0	ND	72.4	70-130	7.60	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.97		8.00		87.1	70-130			



QC Summary Data

Forty Acres Energy, LLC 13000 W County RD 100 Odessa TX, 79765	Project Name: West Eumont Unit #417 Project Number: 23007-0001 Project Manager: Erick Herrera	Reported:  9/1/2023 3:46:55PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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<b>Blank (2335067-BLK1)</b>					Prepared: 08/30/23 Analyzed: 08/31/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	46.8		50.0		93.6	50-200			

<b>LCS (2335067-BS1)</b>					Prepared: 08/30/23 Analyzed: 08/31/23				
Diesel Range Organics (C10-C28)	232	25.0	250		93.0	38-132			
Surrogate: n-Nonane	43.1		50.0		86.2	50-200			

<b>Matrix Spike (2335067-MS1)</b>					<b>Source: E308211-01</b>		Prepared: 08/30/23 Analyzed: 08/31/23		
Diesel Range Organics (C10-C28)	253	25.0	250	ND	101	38-132			
Surrogate: n-Nonane	43.9		50.0		87.9	50-200			

<b>Matrix Spike Dup (2335067-MSD1)</b>					<b>Source: E308211-01</b>		Prepared: 08/30/23 Analyzed: 08/31/23		
Diesel Range Organics (C10-C28)	257	25.0	250	ND	103	38-132	1.95	20	
Surrogate: n-Nonane	46.6		50.0		93.2	50-200			



QC Summary Data

Forty Acres Energy, LLC	Project Name:	West Eumont Unit #417	Reported:
13000 W County RD 100	Project Number:	23007-0001	
Odessa TX, 79765	Project Manager:	Erick Herrera	9/1/2023 3:46:55PM

Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2335039-BLK1)					Prepared: 08/29/23 Analyzed: 08/31/23				
Chloride	ND	20.0							
LCS (2335039-BS1)					Prepared: 08/29/23 Analyzed: 08/31/23				
Chloride	240	20.0	250		96.2	90-110			
Matrix Spike (2335039-MS1)					Source: E308208-01		Prepared: 08/29/23 Analyzed: 08/31/23		
Chloride	699	20.0	250	412	114	80-120			
Matrix Spike Dup (2335039-MSD1)					Source: E308208-01		Prepared: 08/29/23 Analyzed: 08/31/23		
Chloride	662	20.0	250	412	100	80-120	5.33	20	

QC Summary Report Comment:  
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures.  
Therefore, hand calculated values may differ slightly.





Definitions and Notes

Forty Acres Energy, LLC	Project Name:	West Eumont Unit #417	
13000 W County RD 100	Project Number:	23007-0001	Reported:
Odessa TX, 79765	Project Manager:	Erick Herrera	09/01/23 15:46

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

Note (1): Methods marked with \*\* are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.





## Envirotech Analytical Laboratory

Printed: 8/28/2023 1:24:50PM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Forty Acres Energy, LLC	Date Received:	08/28/23 09:55	Work Order ID:	E308211
Phone:	(281) 777-4152	Date Logged In:	08/28/23 10:17	Logged In By:	Caitlin Mars
Email:	erick@etechnv.com	Due Date:	09/01/23 17:00 (4 day TAT)		

**Chain of Custody (COC)**

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: Courier**Comments/Resolution****Sample Turn Around Time (TAT)**

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

**Sample Cooler**

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

**Sample Container**

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

**Field Label**

20. Were field sample labels filled out with the minimum information:
  - Sample ID? Yes
  - Date/Time Collected? Yes
  - Collectors name? No

**Sample Preservation**

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

**Multiphase Sample Matrix**

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

**Subcontract Laboratory**

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

**Client Instruction**

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:  
Erick Herrera



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Forty Acres Energy, LLC

Project Name: West Eumont Unit #417

Work Order: E308212

Job Number: 23007-0001

Received: 8/28/2023

Revision: 2

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
9/1/23

5796 U.S. Hwy 64  
Farmington, NM 87401

Phone: (505) 632-1881  
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.  
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.  
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.  
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.  
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 9/1/23

Erick Herrera  
13000 W County RD 100  
Odessa, TX 79765



Project Name: West Eumont Unit #417  
Workorder: E308212  
Date Received: 8/28/2023 9:55:00AM

Erick Herrera,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/28/2023 9:55:00AM, under the Project Name: West Eumont Unit #417.

The analytical test results summarized in this report with the Project Name: West Eumont Unit #417 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

**Walter Hinchman**  
Laboratory Director  
Office: 505-632-1881  
Cell: 775-287-1762  
[whinchman@envirotech-inc.com](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
[rainaschwanz@envirotech-inc.com](mailto:rainaschwanz@envirotech-inc.com)

**Alexa Michaels**  
Sample Custody Officer  
Office: 505-632-1881  
[labadmin@envirotech-inc.com](mailto:labadmin@envirotech-inc.com)

Field Offices:

**Southern New Mexico Area**  
**Lynn Jarboe**  
Technical Representative/Client Services  
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[ljjarboe@envirotech-inc.com](mailto:ljjarboe@envirotech-inc.com)

**West Texas Midland/Odessa Area**  
**Rayny Hagan**  
Technical Representative  
Office: 505-421-LABS(5227)

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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Sample Summary

Forty Acres Energy, LLC	Project Name:	West Eumont Unit #417	Reported:
13000 W County RD 100	Project Number:	23007-0001	
Odessa TX, 79765	Project Manager:	Erick Herrera	09/01/23 15:50

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH02 6'	E308212-01A	Soil	08/24/23	08/28/23	Glass Jar, 2 oz.





## Sample Data

Forty Acres Energy, LLC 13000 W County RD 100 Odessa TX, 79765	Project Name: West Eumont Unit #417 Project Number: 23007-0001 Project Manager: Erick Herrera	<b>Reported:</b> 9/1/2023 3:50:56PM
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## PH02 6'

## E308212-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2335027	
Benzene	ND	0.0250	1	08/28/23	08/30/23	
Ethylbenzene	ND	0.0250	1	08/28/23	08/30/23	
Toluene	ND	0.0250	1	08/28/23	08/30/23	
o-Xylene	ND	0.0250	1	08/28/23	08/30/23	
p,m-Xylene	ND	0.0500	1	08/28/23	08/30/23	
Total Xylenes	ND	0.0250	1	08/28/23	08/30/23	
Surrogate: 4-Bromochlorobenzene-PID	92.2 %	70-130		08/28/23	08/30/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2335027	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/28/23	08/30/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	85.4 %	70-130		08/28/23	08/30/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2335067	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/30/23	08/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/30/23	08/31/23	
Surrogate: n-Nonane	92.0 %	50-200		08/30/23	08/31/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2335039	
Chloride	68.3	20.0	1	08/29/23	08/31/23	



## QC Summary Data

Forty Acres Energy, LLC	Project Name:	West Eumont Unit #417	<b>Reported:</b>
13000 W County RD 100	Project Number:	23007-0001	
Odessa TX, 79765	Project Manager:	Erick Herrera	9/1/2023 3:50:56PM

## Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2335027-BLK1)

Prepared: 08/28/23 Analyzed: 08/30/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.37		8.00		92.1	70-130			

## LCS (2335027-BS1)

Prepared: 08/28/23 Analyzed: 08/30/23

Benzene	4.61	0.0250	5.00		92.2	70-130			
Ethylbenzene	4.90	0.0250	5.00		97.9	70-130			
Toluene	4.94	0.0250	5.00		98.8	70-130			
o-Xylene	5.09	0.0250	5.00		102	70-130			
p,m-Xylene	10.1	0.0500	10.0		101	70-130			
Total Xylenes	15.2	0.0250	15.0		101	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.44		8.00		93.0	70-130			

## Matrix Spike (2335027-MS1)

Source: E308209-02

Prepared: 08/28/23 Analyzed: 08/30/23

Benzene	4.07	0.0250	5.00	ND	81.3	54-133			
Ethylbenzene	4.32	0.0250	5.00	ND	86.4	61-133			
Toluene	4.35	0.0250	5.00	ND	87.0	61-130			
o-Xylene	4.47	0.0250	5.00	ND	89.5	63-131			
p,m-Xylene	8.92	0.0500	10.0	ND	89.2	63-131			
Total Xylenes	13.4	0.0250	15.0	ND	89.3	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.43		8.00		92.9	70-130			

## Matrix Spike Dup (2335027-MSD1)

Source: E308209-02

Prepared: 08/28/23 Analyzed: 08/30/23

Benzene	4.18	0.0250	5.00	ND	83.6	54-133	2.69	20	
Ethylbenzene	4.44	0.0250	5.00	ND	88.7	61-133	2.62	20	
Toluene	4.48	0.0250	5.00	ND	89.6	61-130	2.91	20	
o-Xylene	4.66	0.0250	5.00	ND	93.1	63-131	4.02	20	
p,m-Xylene	9.18	0.0500	10.0	ND	91.8	63-131	2.79	20	
Total Xylenes	13.8	0.0250	15.0	ND	92.2	63-131	3.20	20	
Surrogate: 4-Bromochlorobenzene-PID	7.42		8.00		92.8	70-130			



QC Summary Data

Forty Acres Energy, LLC 13000 W County RD 100 Odessa TX, 79765	Project Name: West Eumont Unit #417 Project Number: 23007-0001 Project Manager: Erick Herrera	Reported:  9/1/2023 3:50:56PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2335027-BLK1) Prepared: 08/28/23 Analyzed: 08/30/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.85		8.00		85.6	70-130			

LCS (2335027-BS2) Prepared: 08/28/23 Analyzed: 08/30/23

Gasoline Range Organics (C6-C10)	37.4	20.0	50.0		74.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.90		8.00		86.3	70-130			

Matrix Spike (2335027-MS2) Source: E308209-02 Prepared: 08/28/23 Analyzed: 08/30/23

Gasoline Range Organics (C6-C10)	39.1	20.0	50.0	ND	78.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.98		8.00		87.2	70-130			

Matrix Spike Dup (2335027-MSD2) Source: E308209-02 Prepared: 08/28/23 Analyzed: 08/30/23

Gasoline Range Organics (C6-C10)	36.2	20.0	50.0	ND	72.4	70-130	7.60	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.97		8.00		87.1	70-130			



## QC Summary Data

Forty Acres Energy, LLC 13000 W County RD 100 Odessa TX, 79765	Project Name: West Eumont Unit #417 Project Number: 23007-0001 Project Manager: Erick Herrera	Reported: 9/1/2023 3:50:56PM
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## Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2335067-BLK1)

Prepared: 08/30/23 Analyzed: 08/31/23

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	46.8		50.0		93.6	50-200			

## LCS (2335067-BS1)

Prepared: 08/30/23 Analyzed: 08/31/23

Diesel Range Organics (C10-C28)	232	25.0	250		93.0	38-132			
Surrogate: n-Nonane	43.1		50.0		86.2	50-200			

## Matrix Spike (2335067-MS1)

Source: E308211-01

Prepared: 08/30/23 Analyzed: 08/31/23

Diesel Range Organics (C10-C28)	253	25.0	250	ND	101	38-132			
Surrogate: n-Nonane	43.9		50.0		87.9	50-200			

## Matrix Spike Dup (2335067-MSD1)

Source: E308211-01

Prepared: 08/30/23 Analyzed: 08/31/23

Diesel Range Organics (C10-C28)	257	25.0	250	ND	103	38-132	1.95	20	
Surrogate: n-Nonane	46.6		50.0		93.2	50-200			



QC Summary Data

Forty Acres Energy, LLC 13000 W County RD 100 Odessa TX, 79765	Project Name: West Eumont Unit #417 Project Number: 23007-0001 Project Manager: Erick Herrera	Reported:  9/1/2023 3:50:56PM
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Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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<b>Blank (2335039-BLK1)</b>					Prepared: 08/29/23 Analyzed: 08/31/23				
Chloride	ND	20.0							
<b>LCS (2335039-BS1)</b>					Prepared: 08/29/23 Analyzed: 08/31/23				
Chloride	240	20.0	250		96.2	90-110			
<b>Matrix Spike (2335039-MS1)</b>					<b>Source: E308208-01</b>		Prepared: 08/29/23 Analyzed: 08/31/23		
Chloride	699	20.0	250	412	114	80-120			
<b>Matrix Spike Dup (2335039-MSD1)</b>					<b>Source: E308208-01</b>		Prepared: 08/29/23 Analyzed: 08/31/23		
Chloride	662	20.0	250	412	100	80-120	5.33	20	

QC Summary Report Comment:  
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures.  
Therefore, hand calculated values may differ slightly.



Definitions and Notes

Forty Acres Energy, LLC	Project Name:	West Eumont Unit #417	
13000 W County RD 100	Project Number:	23007-0001	Reported:
Odessa TX, 79765	Project Manager:	Erick Herrera	09/01/23 15:50

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

Note (1): Methods marked with \*\* are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



### Chain of Custody





## Envirotech Analytical Laboratory

Printed: 8/28/2023 1:31:16PM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Forty Acres Energy, LLC	Date Received:	08/28/23 09:55	Work Order ID:	E308212
Phone:	(281) 777-4152	Date Logged In:	08/28/23 10:18	Logged In By:	Caitlin Mars
Email:	erick@etechnv.com	Due Date:	09/01/23 17:00 (4 day TAT)		

**Chain of Custody (COC)**

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: Courier**Comments/Resolution****Sample Turn Around Time (TAT)**

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

**Sample Cooler**

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

**Sample Container**

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

**Field Label**

20. Were field sample labels filled out with the minimum information:
  - Sample ID? Yes
  - Date/Time Collected? Yes
  - Collectors name? No

**Sample Preservation**

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

**Multiphase Sample Matrix**

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

**Subcontract Laboratory**

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

**Client Instruction**

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:  
Erick Herrera



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Forty Acres Energy, LLC

Project Name: West Eumont Unit #417

Work Order: E308209

Job Number: 23007-0001

Received: 8/28/2023

Revision: 2

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
9/1/23

5796 U.S. Hwy 64  
Farmington, NM 87401

Phone: (505) 632-1881  
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.  
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.  
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.  
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.  
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 9/1/23

Erick Herrera  
13000 W County RD 100  
Odessa, TX 79765



Project Name: West Eumont Unit #417  
Workorder: E308209  
Date Received: 8/28/2023 9:55:00AM

Erick Herrera,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/28/2023 9:55:00AM, under the Project Name: West Eumont Unit #417.

The analytical test results summarized in this report with the Project Name: West Eumont Unit #417 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

**Walter Hinchman**  
Laboratory Director  
Office: 505-632-1881  
Cell: 775-287-1762  
[whinchman@envirotech-inc.com](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
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**Alexa Michaels**  
Sample Custody Officer  
Office: 505-632-1881  
[labadmin@envirotech-inc.com](mailto:labadmin@envirotech-inc.com)

Field Offices:

**Southern New Mexico Area**  
**Lynn Jarboe**  
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[ljjarboe@envirotech-inc.com](mailto:ljjarboe@envirotech-inc.com)

**West Texas Midland/Odessa Area**  
**Rayny Hagan**  
Technical Representative  
Office: 505-421-LABS(5227)

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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## Sample Summary

Forty Acres Energy, LLC  
13000 W County RD 100  
Odessa TX, 79765

Project Name: West Eumont Unit #417  
Project Number: 23007-0001  
Project Manager: Erick Herrera

**Reported:**  
09/01/23 13:42

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH03 0.5'	E308209-01A	Soil	08/24/23	08/28/23	Glass Jar, 2 oz.
PH03 1'	E308209-02A	Soil	08/24/23	08/28/23	Glass Jar, 2 oz.
PH04 0.5'	E308209-03A	Soil	08/24/23	08/28/23	Glass Jar, 2 oz.
PH04 1'	E308209-04A	Soil	08/24/23	08/28/23	Glass Jar, 2 oz.
PH05 0.5'	E308209-05A	Soil	08/24/23	08/28/23	Glass Jar, 2 oz.
PH05 1'	E308209-06A	Soil	08/24/23	08/28/23	Glass Jar, 2 oz.
PH06 0.5'	E308209-07A	Soil	08/24/23	08/28/23	Glass Jar, 2 oz.
PH06 1'	E308209-08A	Soil	08/24/23	08/28/23	Glass Jar, 2 oz.



## Sample Data

Forty Acres Energy, LLC  
13000 W County RD 100  
Odessa TX, 79765

Project Name: West Eumont Unit #417  
Project Number: 23007-0001  
Project Manager: Erick Herrera

**Reported:**  
9/1/2023 1:42:24PM

## PH03 0.5'

## E308209-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2335027	
Benzene	ND	0.0250	1	08/28/23	08/30/23	
Ethylbenzene	ND	0.0250	1	08/28/23	08/30/23	
Toluene	ND	0.0250	1	08/28/23	08/30/23	
o-Xylene	ND	0.0250	1	08/28/23	08/30/23	
p,m-Xylene	ND	0.0500	1	08/28/23	08/30/23	
Total Xylenes	ND	0.0250	1	08/28/23	08/30/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.0 %	70-130		08/28/23	08/30/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2335027	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/28/23	08/30/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	86.0 %	70-130		08/28/23	08/30/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: JL		Batch: 2335061	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/30/23	08/30/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/30/23	08/30/23	
<i>Surrogate: n-Nonane</i>						
	98.8 %	50-200		08/30/23	08/30/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2335038	
Chloride	115	20.0	1	08/29/23	08/30/23	



## Sample Data

Forty Acres Energy, LLC  
13000 W County RD 100  
Odessa TX, 79765

Project Name: West Eumont Unit #417  
Project Number: 23007-0001  
Project Manager: Erick Herrera

**Reported:**  
9/1/2023 1:42:24PM

## PH03 1'

## E308209-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2335027
Benzene	ND	0.0250	1	08/28/23	08/30/23	
Ethylbenzene	ND	0.0250	1	08/28/23	08/30/23	
Toluene	ND	0.0250	1	08/28/23	08/30/23	
o-Xylene	ND	0.0250	1	08/28/23	08/30/23	
p,m-Xylene	ND	0.0500	1	08/28/23	08/30/23	
Total Xylenes	ND	0.0250	1	08/28/23	08/30/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.5 %	70-130		08/28/23	08/30/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2335027
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/28/23	08/30/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	86.3 %	70-130		08/28/23	08/30/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2335061
Diesel Range Organics (C10-C28)	ND	25.0	1	08/30/23	08/30/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/30/23	08/30/23	
<i>Surrogate: n-Nonane</i>						
	93.6 %	50-200		08/30/23	08/30/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2335038
Chloride	115	20.0	1	08/29/23	08/30/23	





## Sample Data

Forty Acres Energy, LLC  
13000 W County RD 100  
Odessa TX, 79765

Project Name: West Eumont Unit #417  
Project Number: 23007-0001  
Project Manager: Erick Herrera

**Reported:**  
9/1/2023 1:42:24PM

PH04 0.5'

E308209-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2335027
Benzene	ND	0.0250	1	08/28/23	08/30/23	
Ethylbenzene	ND	0.0250	1	08/28/23	08/30/23	
Toluene	ND	0.0250	1	08/28/23	08/30/23	
o-Xylene	ND	0.0250	1	08/28/23	08/30/23	
p,m-Xylene	ND	0.0500	1	08/28/23	08/30/23	
Total Xylenes	ND	0.0250	1	08/28/23	08/30/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.2 %	70-130		08/28/23	08/30/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2335027
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/28/23	08/30/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	86.3 %	70-130		08/28/23	08/30/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2335061
Diesel Range Organics (C10-C28)	ND	25.0	1	08/30/23	08/30/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/30/23	08/30/23	
<i>Surrogate: n-Nonane</i>						
	94.7 %	50-200		08/30/23	08/30/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2335038
Chloride	21.2	20.0	1	08/29/23	08/30/23	



## Sample Data

Forty Acres Energy, LLC  
13000 W County RD 100  
Odessa TX, 79765

Project Name: West Eumont Unit #417  
Project Number: 23007-0001  
Project Manager: Erick Herrera

**Reported:**  
9/1/2023 1:42:24PM

PH04 1'

E308209-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2335027
Benzene	ND	0.0250	1	08/28/23	08/30/23	
Ethylbenzene	ND	0.0250	1	08/28/23	08/30/23	
Toluene	ND	0.0250	1	08/28/23	08/30/23	
o-Xylene	ND	0.0250	1	08/28/23	08/30/23	
p,m-Xylene	ND	0.0500	1	08/28/23	08/30/23	
Total Xylenes	ND	0.0250	1	08/28/23	08/30/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.2 %	70-130		08/28/23	08/30/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2335027
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/28/23	08/30/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	87.2 %	70-130		08/28/23	08/30/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2335061
Diesel Range Organics (C10-C28)	ND	25.0	1	08/30/23	08/30/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/30/23	08/30/23	
<i>Surrogate: n-Nonane</i>						
	85.0 %	50-200		08/30/23	08/30/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2335038
Chloride	ND	20.0	1	08/29/23	08/30/23	



## Sample Data

Forty Acres Energy, LLC  
13000 W County RD 100  
Odessa TX, 79765

Project Name: West Eumont Unit #417  
Project Number: 23007-0001  
Project Manager: Erick Herrera

**Reported:**  
9/1/2023 1:42:24PM

PH05 0.5'

E308209-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2335027
Benzene	ND	0.0250	1	08/28/23	08/30/23	
Ethylbenzene	ND	0.0250	1	08/28/23	08/30/23	
Toluene	ND	0.0250	1	08/28/23	08/30/23	
o-Xylene	ND	0.0250	1	08/28/23	08/30/23	
p,m-Xylene	ND	0.0500	1	08/28/23	08/30/23	
Total Xylenes	ND	0.0250	1	08/28/23	08/30/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.7 %	70-130		08/28/23	08/30/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2335027
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/28/23	08/30/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	87.7 %	70-130		08/28/23	08/30/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2335061
Diesel Range Organics (C10-C28)	ND	25.0	1	08/30/23	08/30/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/30/23	08/30/23	
<i>Surrogate: n-Nonane</i>						
	89.4 %	50-200		08/30/23	08/30/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2335038
Chloride	26.6	20.0	1	08/29/23	08/30/23	



## Sample Data

Forty Acres Energy, LLC  
13000 W County RD 100  
Odessa TX, 79765

Project Name: West Eumont Unit #417  
Project Number: 23007-0001  
Project Manager: Erick Herrera

**Reported:**  
9/1/2023 1:42:24PM

## PH05 1'

## E308209-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2335027
Benzene	ND	0.0250	1	08/28/23	08/30/23	
Ethylbenzene	ND	0.0250	1	08/28/23	08/30/23	
Toluene	ND	0.0250	1	08/28/23	08/30/23	
o-Xylene	ND	0.0250	1	08/28/23	08/30/23	
p,m-Xylene	ND	0.0500	1	08/28/23	08/30/23	
Total Xylenes	ND	0.0250	1	08/28/23	08/30/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.0 %	70-130		08/28/23	08/30/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2335027
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/28/23	08/30/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	86.3 %	70-130		08/28/23	08/30/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2335061
Diesel Range Organics (C10-C28)	ND	25.0	1	08/30/23	08/30/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/30/23	08/30/23	
<i>Surrogate: n-Nonane</i>						
	91.0 %	50-200		08/30/23	08/30/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2335038
Chloride	ND	20.0	1	08/29/23	08/30/23	



## Sample Data

Forty Acres Energy, LLC  
13000 W County RD 100  
Odessa TX, 79765

Project Name: West Eumont Unit #417  
Project Number: 23007-0001  
Project Manager: Erick Herrera

**Reported:**  
9/1/2023 1:42:24PM

PH06 0.5'

E308209-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2335027
Benzene	ND	0.0250	1	08/28/23	08/30/23	
Ethylbenzene	ND	0.0250	1	08/28/23	08/30/23	
Toluene	ND	0.0250	1	08/28/23	08/30/23	
o-Xylene	ND	0.0250	1	08/28/23	08/30/23	
p,m-Xylene	ND	0.0500	1	08/28/23	08/30/23	
Total Xylenes	ND	0.0250	1	08/28/23	08/30/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.6 %	70-130		08/28/23	08/30/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2335027
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/28/23	08/30/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	86.0 %	70-130		08/28/23	08/30/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2335061
Diesel Range Organics (C10-C28)	ND	25.0	1	08/30/23	08/30/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/30/23	08/30/23	
<i>Surrogate: n-Nonane</i>						
	96.7 %	50-200		08/30/23	08/30/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2335038
Chloride	ND	20.0	1	08/29/23	08/30/23	



## Sample Data

Forty Acres Energy, LLC  
13000 W County RD 100  
Odessa TX, 79765

Project Name: West Eumont Unit #417  
Project Number: 23007-0001  
Project Manager: Erick Herrera

**Reported:**  
9/1/2023 1:42:24PM

## PH06 1'

E308209-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2335027
Benzene	ND	0.0250	1	08/28/23	08/30/23	
Ethylbenzene	ND	0.0250	1	08/28/23	08/30/23	
Toluene	ND	0.0250	1	08/28/23	08/30/23	
o-Xylene	ND	0.0250	1	08/28/23	08/30/23	
p,m-Xylene	ND	0.0500	1	08/28/23	08/30/23	
Total Xylenes	ND	0.0250	1	08/28/23	08/30/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.4 %	70-130		08/28/23	08/30/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2335027
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/28/23	08/30/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	85.9 %	70-130		08/28/23	08/30/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2335061
Diesel Range Organics (C10-C28)	ND	25.0	1	08/30/23	08/30/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/30/23	08/30/23	
<i>Surrogate: n-Nonane</i>						
	99.8 %	50-200		08/30/23	08/30/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2335038
Chloride	ND	20.0	1	08/29/23	08/30/23	



## QC Summary Data

Forty Acres Energy, LLC	Project Name:	West Eumont Unit #417	Reported:
13000 W County RD 100	Project Number:	23007-0001	
Odessa TX, 79765	Project Manager:	Erick Herrera	9/1/2023 1:42:24PM

## Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2335027-BLK1)

Prepared: 08/28/23 Analyzed: 08/30/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.37		8.00		92.1	70-130			

## LCS (2335027-BS1)

Prepared: 08/28/23 Analyzed: 08/30/23

Benzene	4.61	0.0250	5.00		92.2	70-130			
Ethylbenzene	4.90	0.0250	5.00		97.9	70-130			
Toluene	4.94	0.0250	5.00		98.8	70-130			
o-Xylene	5.09	0.0250	5.00		102	70-130			
p,m-Xylene	10.1	0.0500	10.0		101	70-130			
Total Xylenes	15.2	0.0250	15.0		101	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.44		8.00		93.0	70-130			

## Matrix Spike (2335027-MS1)

Source: E308209-02

Prepared: 08/28/23 Analyzed: 08/30/23

Benzene	4.07	0.0250	5.00	ND	81.3	54-133			
Ethylbenzene	4.32	0.0250	5.00	ND	86.4	61-133			
Toluene	4.35	0.0250	5.00	ND	87.0	61-130			
o-Xylene	4.47	0.0250	5.00	ND	89.5	63-131			
p,m-Xylene	8.92	0.0500	10.0	ND	89.2	63-131			
Total Xylenes	13.4	0.0250	15.0	ND	89.3	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.43		8.00		92.9	70-130			

## Matrix Spike Dup (2335027-MSD1)

Source: E308209-02

Prepared: 08/28/23 Analyzed: 08/30/23

Benzene	4.18	0.0250	5.00	ND	83.6	54-133	2.69	20	
Ethylbenzene	4.44	0.0250	5.00	ND	88.7	61-133	2.62	20	
Toluene	4.48	0.0250	5.00	ND	89.6	61-130	2.91	20	
o-Xylene	4.66	0.0250	5.00	ND	93.1	63-131	4.02	20	
p,m-Xylene	9.18	0.0500	10.0	ND	91.8	63-131	2.79	20	
Total Xylenes	13.8	0.0250	15.0	ND	92.2	63-131	3.20	20	
Surrogate: 4-Bromochlorobenzene-PID	7.42		8.00		92.8	70-130			





QC Summary Data

Forty Acres Energy, LLC	Project Name:	West Eumont Unit #417	Reported:
13000 W County RD 100	Project Number:	23007-0001	
Odessa TX, 79765	Project Manager:	Erick Herrera	9/1/2023 1:42:24PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2335027-BLK1) Prepared: 08/28/23 Analyzed: 08/30/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.85		8.00		85.6	70-130			

LCS (2335027-BS2) Prepared: 08/28/23 Analyzed: 08/30/23

Gasoline Range Organics (C6-C10)	37.4	20.0	50.0		74.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.90		8.00		86.3	70-130			

Matrix Spike (2335027-MS2) Source: E308209-02 Prepared: 08/28/23 Analyzed: 08/30/23

Gasoline Range Organics (C6-C10)	39.1	20.0	50.0	ND	78.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.98		8.00		87.2	70-130			

Matrix Spike Dup (2335027-MSD2) Source: E308209-02 Prepared: 08/28/23 Analyzed: 08/30/23

Gasoline Range Organics (C6-C10)	36.2	20.0	50.0	ND	72.4	70-130	7.60	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.97		8.00		87.1	70-130			



QC Summary Data

Forty Acres Energy, LLC 13000 W County RD 100 Odessa TX, 79765	Project Name: West Eumont Unit #417 Project Number: 23007-0001 Project Manager: Erick Herrera	Reported:  9/1/2023 1:42:24PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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<b>Blank (2335061-BLK1)</b>					Prepared: 08/30/23 Analyzed: 08/30/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.0		50.0		96.0	50-200			

<b>LCS (2335061-BS1)</b>					Prepared: 08/30/23 Analyzed: 08/30/23				
Diesel Range Organics (C10-C28)	244	25.0	250		97.5	38-132			
Surrogate: n-Nonane	50.8		50.0		102	50-200			

<b>Matrix Spike (2335061-MS1)</b>					<b>Source: E308208-01</b>		Prepared: 08/30/23 Analyzed: 08/30/23		
Diesel Range Organics (C10-C28)	262	25.0	250	ND	105	38-132			
Surrogate: n-Nonane	50.0		50.0		100	50-200			

<b>Matrix Spike Dup (2335061-MSD1)</b>					<b>Source: E308208-01</b>		Prepared: 08/30/23 Analyzed: 08/30/23		
Diesel Range Organics (C10-C28)	261	25.0	250	ND	105	38-132	0.163	20	
Surrogate: n-Nonane	50.0		50.0		100	50-200			



QC Summary Data

Forty Acres Energy, LLC	Project Name:	West Eumont Unit #417	Reported:
13000 W County RD 100	Project Number:	23007-0001	
Odessa TX, 79765	Project Manager:	Erick Herrera	9/1/2023 1:42:24PM

Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2335038-BLK1)					Prepared: 08/29/23 Analyzed: 08/30/23				
Chloride	ND	20.0							
LCS (2335038-BS1)					Prepared: 08/29/23 Analyzed: 08/30/23				
Chloride	254	20.0	250		102	90-110			
Matrix Spike (2335038-MS1)					Source: E308134-01		Prepared: 08/29/23 Analyzed: 08/30/23		
Chloride	419	20.0	250	162	103	80-120			
Matrix Spike Dup (2335038-MSD1)					Source: E308134-01		Prepared: 08/29/23 Analyzed: 08/30/23		
Chloride	417	20.0	250	162	102	80-120	0.358	20	

QC Summary Report Comment:  
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures.  
Therefore, hand calculated values may differ slightly.



Definitions and Notes

Forty Acres Energy, LLC	Project Name:	West Eumont Unit #417	
13000 W County RD 100	Project Number:	23007-0001	Reported:
Odessa TX, 79765	Project Manager:	Erick Herrera	09/01/23 13:42

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

Note (1): Methods marked with \*\* are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



## Project Information

## Chain of Custody

Client: Forty Acres Energy, LLC.				Bill To		Lab Use Only				TAT				EPA Program					
Project: West Eumont Unit #417				Attention: Etech Environmental & Safety Solutions, Inc.		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA				
Project Manager: Erick Herrera				Address: 13000 W County Rd 100		E308209		230070001					5 day TAT						
Address: 13000 W County Rd 100				City, State, Zip: Odessa, TX, 79765		Analysis and Method									RCRA				
City, State, Zip: Odessa, TX, 79765				Phone: (432)563-2200		Depth (ft.)	TPH GRQ/DRO/ORO 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 3000	NM	BGDOX	TX	State				
Phone: (281)777-4152				Email:											NM	CO	UT	AZ	TX
Email: erick@etechenv.com, joseph@etechenv.com				WO: N/A															
Collected by: Edyte Konan				Incident ID: nAPP2222156995															
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number									Remarks					
11:00	8/24/2023	S	1	PH03	1	0.5'						X							
11:10	8/24/2023	S	1	PH03	2	1'						X							
11:20	8/24/2023	S	1	PH04	3	0.5'						X							
11:30	8/24/2023	S	1	PH04	4	1'						X							
11:40	8/24/2023	S	1	PH05	5	0.5'						X							
11:50	8/24/2023	S	1	PH05	6	1'						X							
12:00	8/24/2023	S	1	PH06	7	0.5'						X							
12:10	8/24/2023	S	1	PH06	8	1'						X							
Additional Instructions:																			
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.										Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.									
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only											
<i>[Signature]</i>		08/25/23	15:00	<i>Michelle Gonzales</i>		08-25-23	1500	Received on ice: <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 _____ T2 _____ T3 _____											
<i>Michelle Gonzales</i>		08-25-23	1700	<i>Co. [Signature]</i>		8/28/23	9:55												
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C <u>4</u>											
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other						Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA													
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																			

## Envirotech Analytical Laboratory

Printed: 8/28/2023 1:19:48PM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Forty Acres Energy, LLC	Date Received:	08/28/23 09:55	Work Order ID:	E308209
Phone:	(281) 777-4152	Date Logged In:	08/28/23 10:16	Logged In By:	Caitlin Mars
Email:	erick@etechnv.com	Due Date:	09/01/23 17:00 (4 day TAT)		

**Chain of Custody (COC)**

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: Courier**Comments/Resolution****Sample Turn Around Time (TAT)**

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

**Sample Cooler**

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

**Sample Container**

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

**Field Label**

20. Were field sample labels filled out with the minimum information:
  - Sample ID? Yes
  - Date/Time Collected? Yes
  - Collectors name? No

**Sample Preservation**

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

**Multiphase Sample Matrix**

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

**Subcontract Laboratory**

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

**Client Instruction**

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

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## APPENDIX G

### NMOCD Notifications



**Erick Herrera**

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**From:** Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>  
**Sent:** Thursday, August 17, 2023 9:22 AM  
**To:** Erick Herrera  
**Cc:** Bratcher, Michael, EMNRD; Velez, Nelson, EMNRD  
**Subject:** RE: [EXTERNAL] (40 Acres Energy - Site Sampling Notification) 8/22 - 8/25/23

Good morning Erick,

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thank you,

Shelly

Shelly Wells \* Environmental Specialist-Advanced  
Environmental Bureau  
EMNRD-Oil Conservation Division  
1220 S. St. Francis Drive | Santa Fe, NM 87505  
(505)469-7520 | [Shelly.Wells@emnrd.nm.gov](mailto:Shelly.Wells@emnrd.nm.gov)  
<http://www.emnrd.state.nm.us/OCD/>

---

**From:** Erick Herrera <erick@etechenv.com>  
**Sent:** Thursday, August 17, 2023 8:11 AM  
**To:** Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>  
**Cc:** Ryan Swift <ryan@faenergyus.com>; James Martinez <james@faenergyus.com>; Joseph Hernandez <joseph@etechenv.com>; Anna Byers <anna@etechenv.com>; Gilbert Moreno <gilbert@etechenv.com>  
**Subject:** [EXTERNAL] (40 Acres Energy - Site Sampling Notification) 8/22 - 8/25/23

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good morning,

40 Acres Energy anticipates conducting confirmation soil sampling activities at the following sites from August 22<sup>nd</sup> through August 25<sup>th</sup>.

Proposed Date: August 22, 2023, August 23, 2023, August 24, 2023, August 25, 2023  
Proposed Timeframe: 0800 – 1700 hrs.  
Site Name: West Eumont Unit #417/LW2 Battery  
Incident Number: nAPP2222156995  
API#: 30-025-44254

Proposed Date: August 22, 2023, August 23, 2023, August 24, 2023, August 25, 2023  
Proposed Timeframe: 0800 – 1700 hrs.  
Site Name: State WE H Battery  
Incident Number: nAPP2321636998

API#: 30-025-03372

Proposed Date: August 22, 2023, August 23, 2023, August 24, 2023, August 25, 2023

Proposed Timeframe: 0800 – 1700 hrs.

Site Name: Atlantic State #003

Incident Number: nAPP2321654246

API#: 30-025-03508

Thank you,

**Erick Herrera**

Staff Geologist



Work: (432) 305-6416

Cell: (281) 777-4152

**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 275317

CONDITIONS

Operator: FORTY ACRES ENERGY, LLC 11757 KATY FWY HOUSTON, TX 77079173	OGRID: 371416
	Action Number: 275317
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Deferral is approved. Remediation Due date will be left open until the site has been plugged and abandoned or a major facility deconstruction takes place.	12/21/2023