



**CLOSURE REQUEST**

**DEVON ENERGY COMPANY**

Created for submission to New Mexico Oil Conservation Division on 04/21/2023.

**JERROD INSKEEP, CES**  
*Environmental Manager*

**ENERGIZING AMERICA**

April 21, 2023

## Environmental Incident Group

State of New Mexico

Energy, Minerals, and Natural Resources

New Mexico Oil Conservation Division

811 South First Street

Artesia, New Mexico 88210

## RE: CLOSURE REQUEST

<b>COMPANY</b>	Devon Energy Company
<b>LOCATION</b>	Ross Draw Unit #038
<b>API</b>	30-015-42295
<b>PLSS</b>	Unit F Sec 22 T26S R30E
<b>GPS</b>	32.03024, -103.87134
<b>INCIDENT ID</b>	nAPP2303239586

## BACKGROUND

Wescom, Inc., hereafter referred to as Wescom, has prepared this Closure Request on behalf of Devon Energy Company, hereafter referred to as Devon, regarding the release at the Ross Draw Unit #038 (Site) located in Unit F, Section 22 Township 26 South and Range 30 East in Eddy County, New Mexico. The GPS coordinates are as follows: 32.03024 and -103.87134. The surface owner of the Site is the Bureau of Land Management (BLM).

On February 1, 2023, the stuffing box on the wellhead began to leak. This failure resulted in the release of five barrels (bbls) of produced water and two bbls of crude oil onto the caliche pad. Devon immediately isolated the source of the leak and approximately three bbls of produced water and one bbl of crude oil were recovered. The release impacted an area surrounding the pumpjack as shown in Figure 1.

Wescom personnel arrived onsite on February 10, 2023, to begin delineation sampling. Wescom personnel returned to the Site on April 3, 2023, and again on April 12, 2023, to collect final confirmation samples.



## SURFACE & GROUND WATER

The New Mexico Office of the State Engineer (OSE) records indicates the nearest depth to groundwater measurement is greater than 105 feet below ground surface (bgs) and is on Site. No playas or lakes are located within a one-mile radius of this Site (Attachment C).

## KARST POTENTIAL

According to data from the Bureau of Land Management, this Site is located within medium karst potential as shown in Attachment D. There are no indicators of karst around the Site surface.

## TARGET REMEDIAL LEVELS

The target cleanup levels are determined using the NMOCD Closure Criteria (19.15.29.12.B(4) and Table 1 NMAC, inserted below) including karst guidelines from the Bureau of Land Management. This Site is in the medium karst potential zone and depth to groundwater is greater than 105 feet bgs therefore, the applicable Recommended Remediation Action Levels (RRALs) are 10 parts per million (ppm) Benzene, 50 ppm combined benzene, toluene, ethyl benzene, and xylene (BTEX) and 2,500 ppm Total Petroleum Hydrocarbons (TPH) and 1000 ppm combined Gasoline Range Organics (GRO) and Diesel Range Organics (DRO). A chloride concentration at or below 20,000 mg/kg (ppm) in the soil is also required.

Closure Criteria (19.15.29.12.B(4) and Table 1 NMAC)						
Ross Draw Unit #038 — 32.03024, -103.87134						
Depth to Groundwater		Closure Criteria (unites in mg/kg)				
		Chloride * numerical limit or background, whichever is greater	TPH	GRO+DRO	BTEX	Benzene
Based on high karst potential		600	100		50	10
No water data within 0.5 mile radius		600	100		50	10
less than 50 ft bgs		600	100		50	10
51 ft to 100 ft bgs		10000	2500	1000	50	10
greater than 100 ft bgs		<b>&gt;105 ft. bgs</b> <b>20000</b>	<b>2500</b>	<b>1000</b>	<b>50</b>	<b>10</b>
Surface Water		If yes, then				
< 300 feet from continuously flowing watercourse or other significant watercourse?		No				
< 200 feet from lakebed, sinkhole or playa lake		No				
Water Well or Water Source						
< 500 feet from spring or a private, domestic fresh water well used by less than 5 households for domestic or stock watering purposes?		No				
< 1000 feet from fresh water well or spring?		No				
Human and Other Areas						
< 300 feet from an occupied permanent residence, school, hospital, institution or church?		No				
Within incorporated municipal boundaries or within a defined municipal fresh water well field?		No				
< 100 feet from wetland?		No				
Within area overlying a subsurface mine?		No				
Within an unstable area?		No				
Within a 100-year floodplan?		No				

Table: Closure Criteria Statistics



## DELINEATION ACTIVITIES

On February 10, 2023, Wescom personnel arrived onsite to conduct horizontal and vertical delineation sampling of the release area as shown in Figure 1. Wescom personnel returned to the Site on April 03, 2023, to recollect vertical delineation sample. A background sample, BG01, was collected 55 feet to the East of the caliche pad, as shown in Figure 1.

Delineation sampling of the on-pad release area was completed in accordance with the strictest closure criteria per Table 1 NMAC. A total of five samples were jarred and sent to Envirotech, Inc., for laboratory analysis and all samples were below the applicable RRALs for the Site. Delineation sample locations are presented in Figure 1; laboratory analysis results are presented in Table 1 and laboratory analytical reports are included in Attachment E.

## REMEDIATION ACTIVITIES

Beginning on April 3, 2023, Wescom personnel arrived onsite to conduct final confirmation sampling. Centrex Limited used an excavator to remove contaminated soil from the release area and impacted material was hauled to an approved disposal facility.

Wescom personnel collected a total of seven composite confirmation samples and three composite wall samples over the two-day sampling period. All the confirmation samples were below the applicable RRALs for the Site as shown in Table 2. All soil samples were properly packaged, preserved, and transported to Envirotech, Inc. by chain of custody, and analyzed for Total Petroleum Hydrocarbons, or TPH, —Method 8015D, BTEX—Method 8021B, and Chlorides—Method 300.0. Confirmation sample locations are presented in Figure 2 and laboratory analytical reports are included in Attachment E.

The required 48-hour confirmation sampling notification emails were sent on March 28, 2023, and April 10, 2023, to [OCD.Enviro@emnrd.nm.gov](mailto:OCD.Enviro@emnrd.nm.gov) and are included in Attachment F.

## REQUEST FOR CLOSURE

On behalf of Devon, Wescom hereby requests closure for the release associated with incident number nAPP2303239586 based on the logic below.

- Depth to water at the Site is greater than 105 feet bgs, as per Attachment C.
- The release area has been horizontally and vertically delineated to the strictest criteria per Table 1 NMAC, see Figure 2.
- All confirmation areas and samples are below applicable RRALs for the Site; Sidewall samples are below the strictest criteria per Table 1 NMAC.
- Impacted material was removed and properly disposed of at an approved facility.





If you have any questions or comments, please do not hesitate to call Mr. Jerrod Inskeep at (432) 770-1888.

Sincerely,

Wescom, Inc.

**Jerrod Inskeep, CES**  
Environmental Manager

cc: Jim Raley, Devon Energy Company  
Environmental Incident Group, NMOCD

# REFERENCE MATERIALS

## FIGURES

**FIGURE 1.** Delineation Sampling

**FIGURE 2.** Confirmation Sampling

## TABLES

**TABLE 1.** Laboratory Analysis Results: Delineation Samples

**TABLE 2.** Laboratory Analysis Results: Confirmation Samples

## ATTACHMENTS

**ATTACHMENT A.** C-141

**ATTACHMENT B.** Site Photos

**ATTACHMENT C.** Closure Criteria Supporting Documents

**ATTACHMENT D.** Karst Map

**ATTACHMENT E.** Envirotech Inc. Laboratory Analysis Reports

**ATTACHMENT F.** 48-hour Confirmation Sampling Notification Emails



# FIGURES

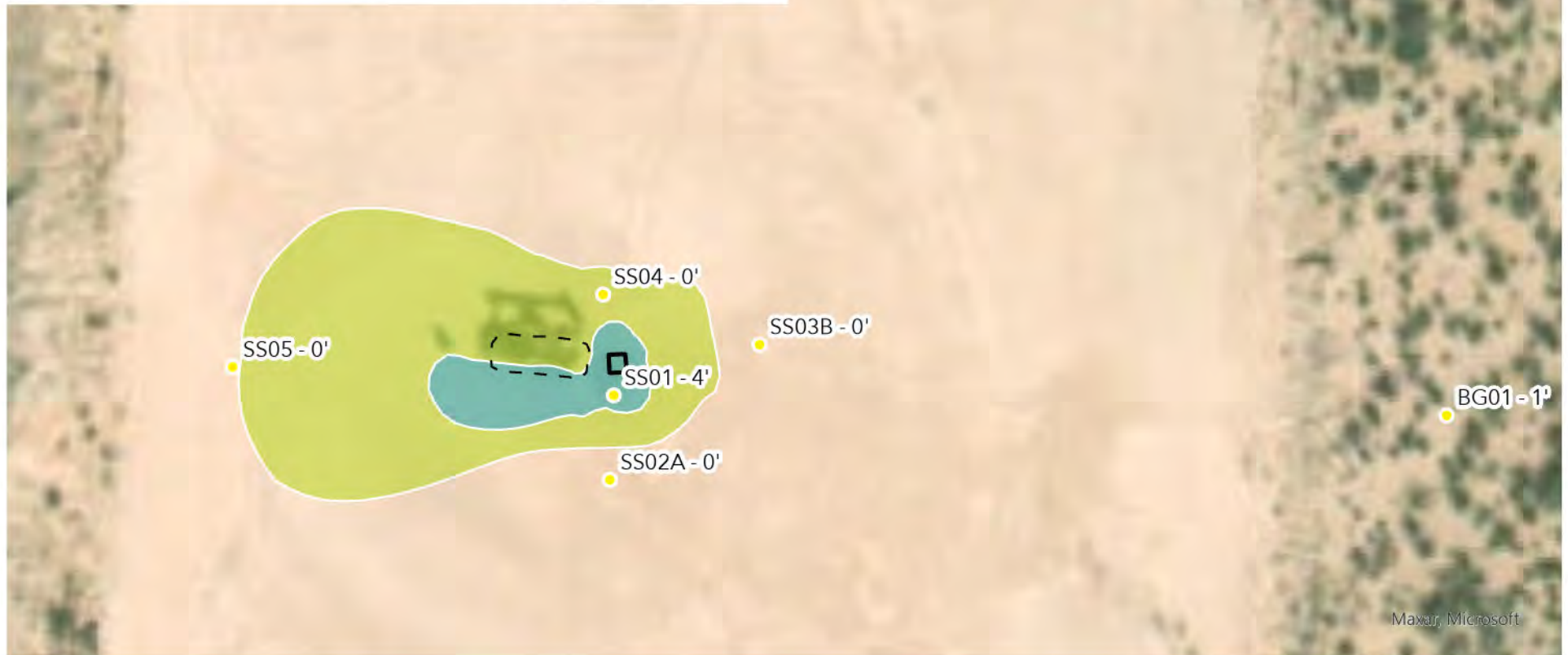
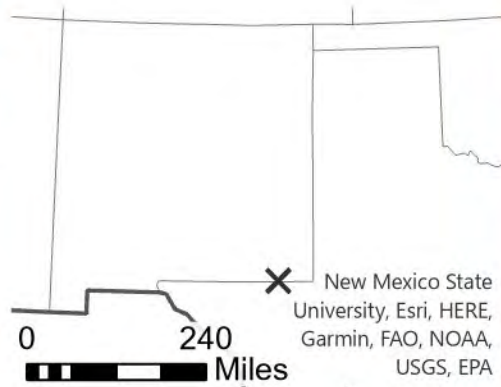


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**Ross Draw Unit #038** | Incident ID: nAPP2303239586

Laboratory Analysis Results			
ID	TPH	BTEX	Chloride
BG01	ND	ND	ND
SS01	ND	ND	85.8
SS02A	ND	ND	169
SS03B	ND	ND	319
SS04	ND	ND	232
SS05	ND	ND	ND



## FIGURE 1. DELINEATION SAMPLES

Ross Draw Unit #038  
 Incident ID: nAPP2303239586  
 API: 30-015-42295  
 GPS Coordinates: 32.030243, -103.871346  
 Eddy County, New Mexico  
 Devon Energy

Released to Imaging: 8/28/2023 4:01:14 PM



### LEGEND

- Delineation Samples
- Spill Area
- Overspray Area
- Pumpjack
- Wellhead cellar





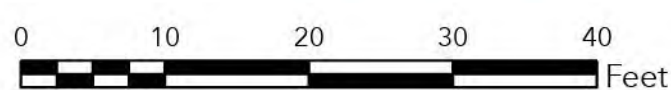
Laboratory Analysis Results			
ID	TPH	BTEX	Chloride
CONF01	ND	ND	2540
CONF02	31.4	ND	3470
CONF03	ND	ND	3630
CONF04	ND	ND	3700
CONF05	ND	ND	926
CONF06	ND	ND	397
CONF07	ND	ND	271
CONF08 Wall	ND	ND	685
CONF09 Wall	ND	ND	114
CONF10 Wall	ND	ND	141



**FIGURE 2. CONFIRMATION SAMPLES**

Ross Draw Unit #038  
 Incident ID: nAPP2303239586  
 API: 30-015-42295  
 GPS Coordinates: 32.030243, -103.871346  
 Eddy County, New Mexico  
 Devon Energy

Released to Imaging: 8/28/2023 4:01:14 PM



**LEGEND**

- Confirmation Samples
- Wellhead cellar
- Pumpjack
- Spill Area
- Overspray Area
- /// Excavation



# TABLES



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**Ross Draw Unit #038** | Incident ID: nAPP2303239586

Ross Draw Unit #038   nAPP2303239586						
Devon Energy   02.20.2023						
Table 1. Laboratory Analysis Results: Delineation Samples						
Sample Description			Petroleum Hydrocarbons			Inorganic
Sample ID	Depth (ft.)	Date	Volatile		Extractable	Chloride (mk/kg)
			Benzene (mk/kg)	Total BTEX (mk/kg)	TPH (mk/kg)	
Closure Criteria			10	50	100	600
BG01	1	2/10/2023	ND	ND	ND	ND
SS01	4	4/5/2023	ND	ND	ND	85.8
SS02A	0	2/10/2023	ND	ND	ND	169
SS03B	0	2/10/2023	ND	ND	ND	319
SS04	0	2/10/2023	ND	ND	ND	232
SS05	0	2/10/2023	ND	ND	ND	ND
ABBREVIATIONS						
BTEX — Benzene, Toluene, Ethylene, Xylene			GRO — Gasoline Range Organics			
DRO — Diesel Range Organics			ND — Non-detect			
ft. — Feet			mg/kg — Milligrams per Kilogram			
TPH — Total Petroleum Hydrocarbons						
Notes						
Bold Red - Results are above closure criteria						
Gray Highlight - Background Samples						



Ross Draw Unit #038   nAPP2303239586							
Devon Energy   04.19.2023							
Table 2. Laboratory Analysis Results: Confirmation Samples							
Sample Description			Petroleum Hydrocarbons				Inorganic
Sample ID	Depth (ft.)	Date	Volatile		Extractable		Chloride (mk/kg)
			Benzene (mk/kg)	Total BTEX (mk/kg)	TPH (mk/kg)	GRO+DRO (mk/kg)	
Closure Criteria			10	50	2500	1000	20000
CONF01	3	4/3/2023	ND	ND	ND	ND	2540
CONF02	2	4/3/2023	ND	ND	31.4	31.4	3470
CONF03	2	4/3/2023	ND	ND	ND	ND	3630
CONF04	2	4/3/2023	ND	ND	ND	ND	3700
CONF05	2	4/3/2023	ND	ND	ND	ND	926
CONF06	2	4/3/2023	ND	ND	ND	ND	397
CONF07	2	4/3/2023	ND	ND	ND	ND	271
CONF08 Wall	0.5	4/12/2023	ND	ND	ND	ND	107
CONF09 Wall	0.5	4/3/2023	ND	ND	ND	ND	114
CONF10 Wall	0.5	4/3/2023	ND	ND	ND	ND	141
ABBREVIATIONS							
BTEX — Benzene, Toluene, Ethylene, Xylene				GRO — Gasoline Range Organics			
DRO — Diesel Range Organics				ND — Non-detect			
ft. — Feet				mg/kg — Milligrams per Kilogram			
TPH — Total Petroleum Hydrocarbons							
Notes							
Bold Red - Results are above closure criteria							
Gray Highlight - Background Samples							



# ATTACHMENT A

C-141



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**Ross Draw Unit #038** | Incident ID: nAPP2303239586



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	nAPP2303239586
District RP	
Facility ID	
Application ID	

## Responsible Party

Responsible Party WPX Energy Permian, LLC	OGRID 246289
Contact Name Jim Raley	Contact Telephone 575-689-7597
Contact email Jim.Raley@dmv.com	Incident # (assigned by OCD) nAPP2303239586
Contact mailing address 5315 Buena Vista Drive, Carlsbad, NM 88220	

## Location of Release Source

Latitude 32.03024 Longitude -103.87134  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: ROSS DRAW UNIT #038	Site Type Oil Well
Date Release Discovered: 2/1/2023	API# (if applicable) 30-015-42295

Unit Letter	Section	Township	Range	County
F	22	26S	30E	Eddy

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (Name: \_\_\_\_\_)

## 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) 2	Volume Recovered (bbls) 1
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 5	Volume Recovered (bbls) 3
	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: Leaking stuffing box on wellhead allowed for the release of fluids to pad surface.


$$bbl\ estimate = \frac{saturated\ soil\ volume\ (ft^3)}{4.21(bbl\ equivalent)} * estimated\ soil\ porosity(\%) + recovered\ fluids\ (bbl)$$

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Application ID	

<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>Jim Raley</u> Title: <u>Environmental Professional</u>	
Signature: <u></u> Date: <u>2/01/2023</u>	
email: <u>jim.raley@dvn.com</u> Telephone: <u>575-689-7597</u>	
<b><u>OCD Only</u></b>	
Received by: _____ Date: _____	

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Facility ID	
Application ID	

## 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;105</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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Application ID	

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: Jim Raley

Title: Environmental Professional

Signature: \_\_\_\_\_

Date: 4/28/2023

email: jim.raley@dm.com

Telephone: 575-689-7597

**OCD Only**

Received by: Jocelyn Harimon

Date: 04/28/2023

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Facility ID	
Application ID	

## Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.


**Closure Report Attachment Checklist:** *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Jim Raley

Title: Environmental Professional

Signature: 

Date: 4/28/2023

email: jim.ralej@dm.com

Telephone: 575-689-7597

**OCD Only**

Received by: Jocelyn Harimon

Date: 04/28/2023

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_

# ATTACHMENT B

## Site Photos

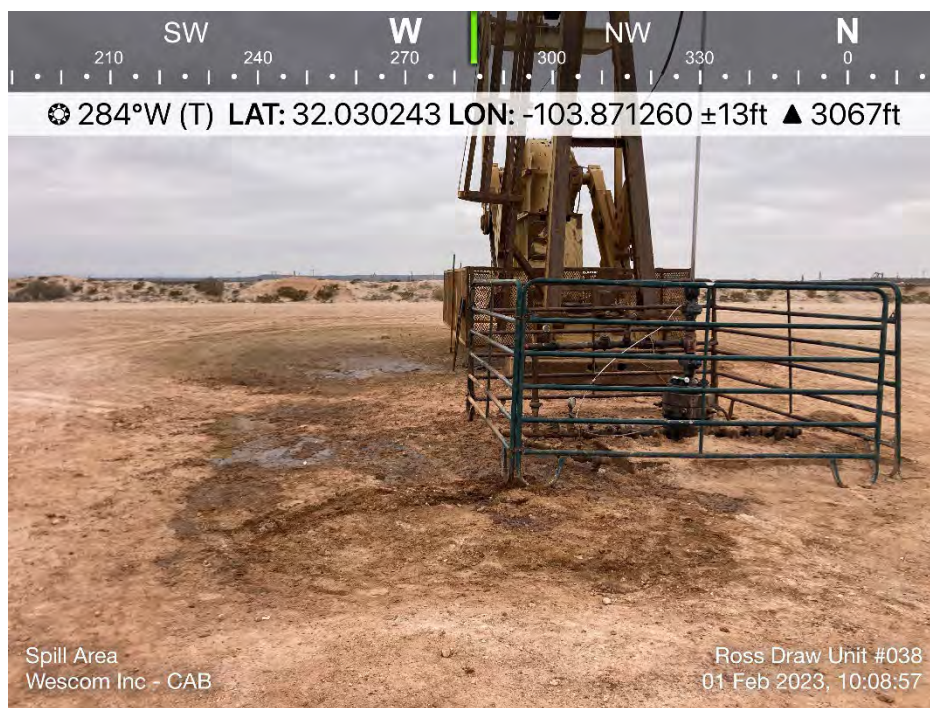
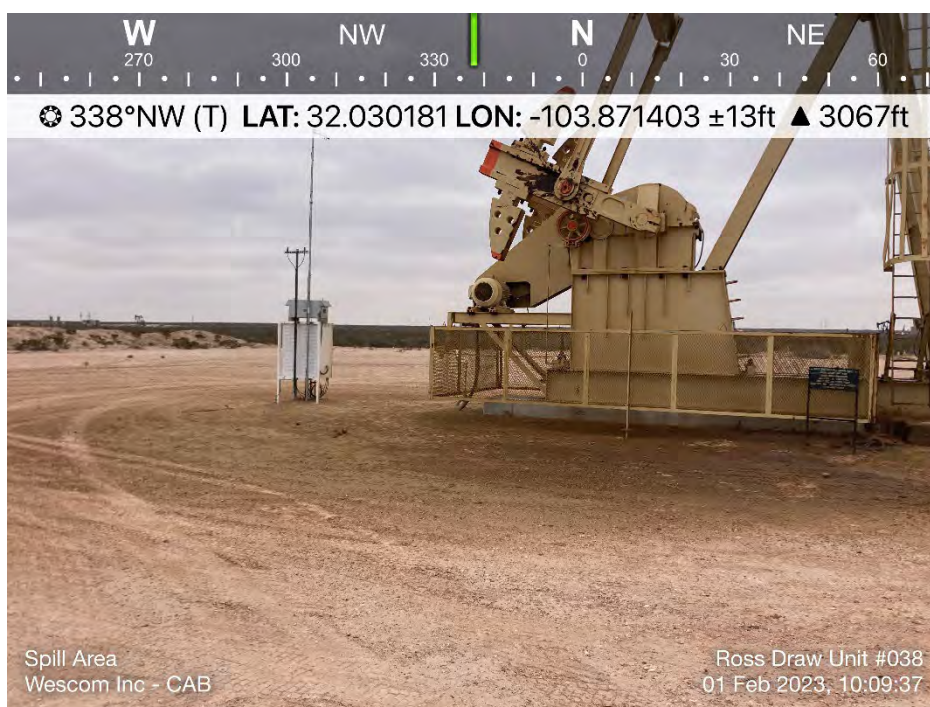


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**Ross Draw Unit #038** | Incident ID: nAPP2303239586

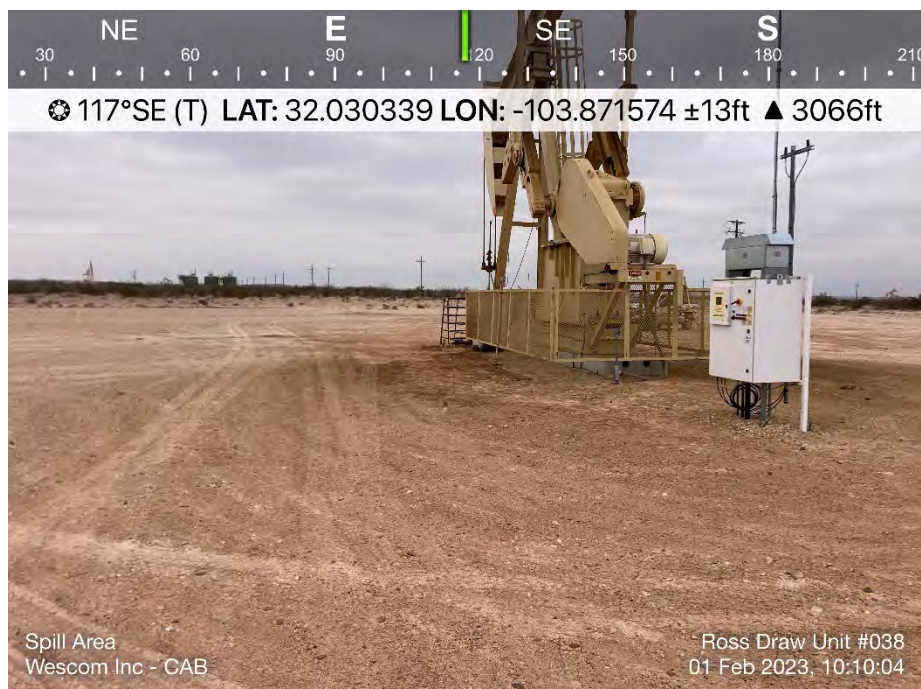


*Spill Area - Near Wellhead**Spill Area - South Side of Pumpjack***Energizing America**

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Spill Area – North Side of Pumpjack



Spill Area – Northwest Side of Pumpjack



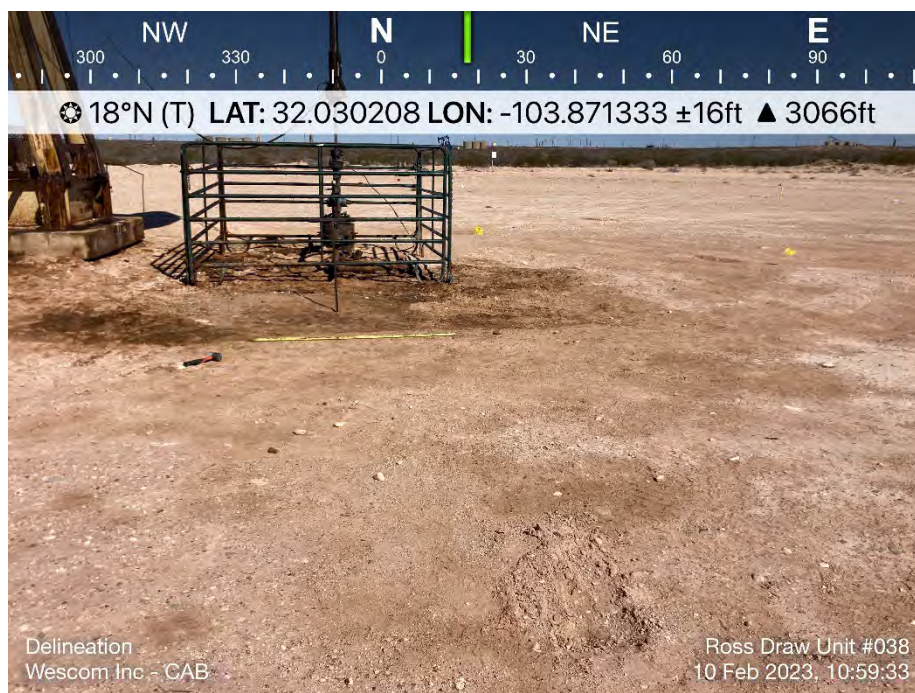
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Delineation Sampling



Background Sample



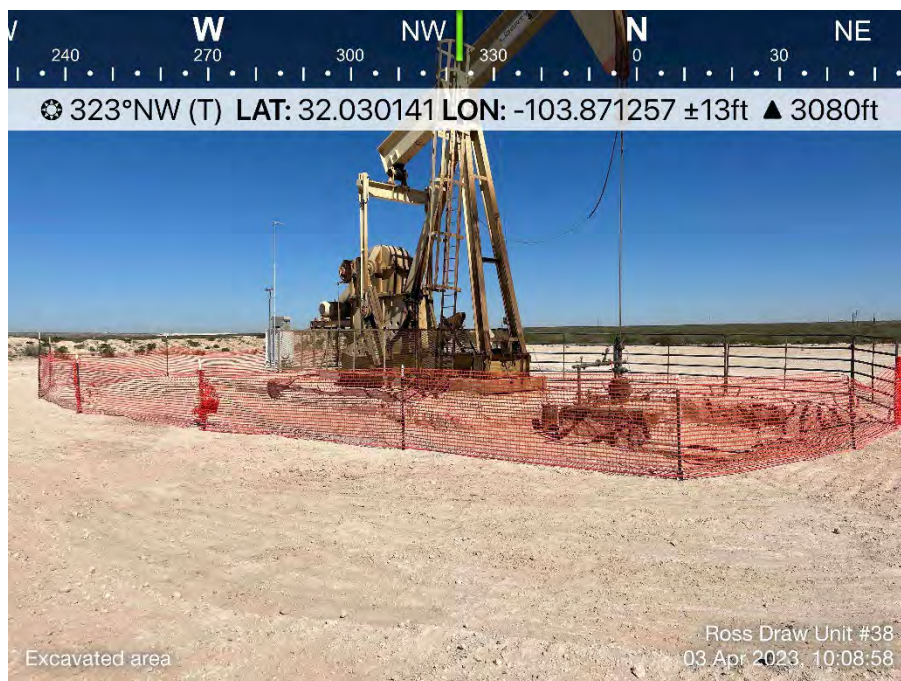
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Excavated Area



Excavated Area - Around Wellhead



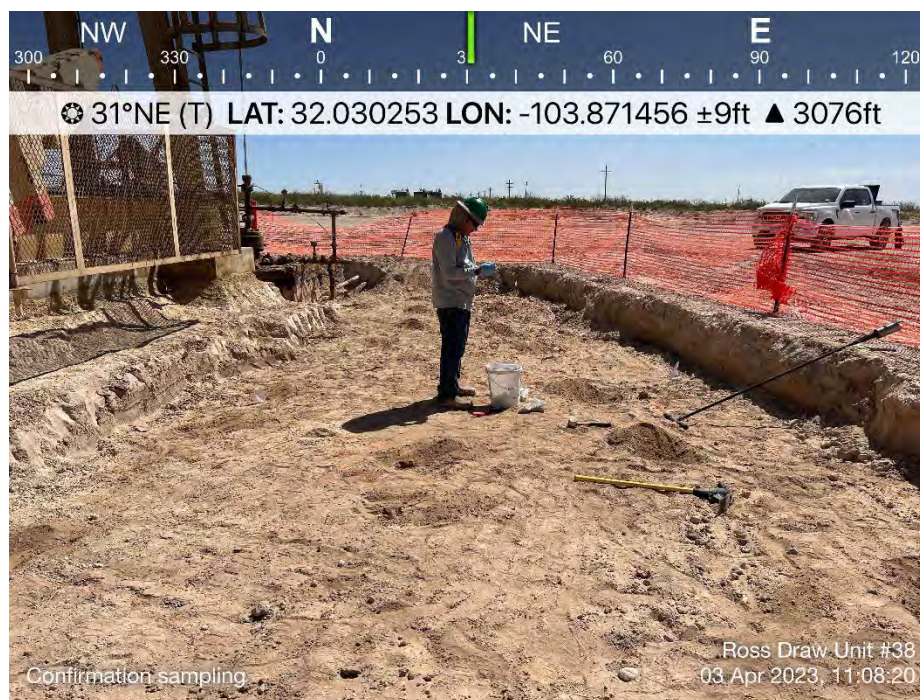
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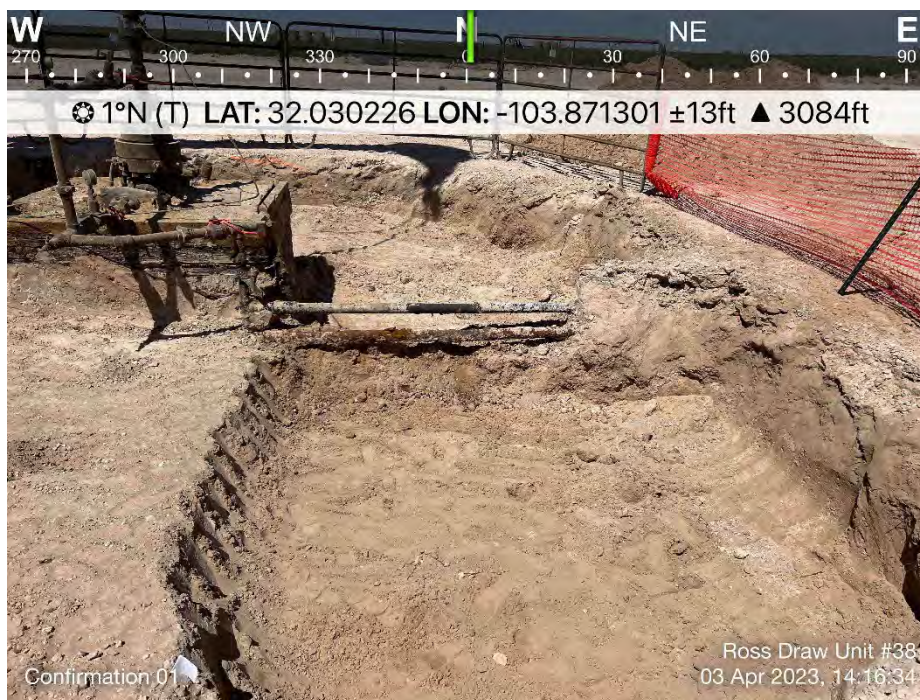
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Confirmation Sampling



Sample Area CONF01 Excavated to 3'



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*Scraped Area – South side**CONF08 Wall***Energizing America**

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# ATTACHMENT C

## Closure Criteria Supporting Documents



**Energizing America**

**wescominc.com** | info@wescominc.com | 218-724-1322

**Ross Draw Unit #038** | Incident ID: nAPP2303239586



### Site Investigation Report

Date of report: 1/5/2021  
Site Names: RDX 16-25 Ross Draw Unit #38  
RDX 17 #3 Ross Draw Unit #55  
RDX Fed Com 17-44H Ross Draw Unit #57  
RDX Fed Com 21-43 N Brushy Fed 35 #010H  
County: Eddy County, New Mexico  
Project No: 0397

### Site Activities

Earth Systems Response and Restoration (ESRR) field activities were conducted December 8<sup>th</sup> through the 10<sup>th</sup> in Eddy county, New Mexico. ESRR oversaw the advancement of one soil boring at the eight above-mentioned locations to an approximate depth of 105 feet (ft.) below grade surface utilizing an air-rotary drilling rig operated by a State of New Mexico licensed driller. Additionally, HRL Compliance Solutions (HRL) conducted on-site soil logging activities during the advancement of the soil borings. Please see the detailed lithologic descriptions attached.

Upon completion of the soil borings, a PVC casing fitted with 5 ft. of machine-slotted well screen at the bottom was inserted into each soil boring. The PVC casing was left in place for a minimum of 72 hours prior to being gauged by HRL Consulting on December 12<sup>th</sup> with a water level meter to determine the presence or absence of groundwater. Subsequent to gauging activities, each soil boring had the PVC casing removed and was then backfilled with its associated native soil cuttings to grade surface.


### Conclusions

Groundwater was not detected in any of the eight soil borings as determined by utilizing a water level meter after 72 hours of development. It can be reasonably determined groundwater is deeper than 105 ft. bgs in the vicinity of the advanced soil borings.

Respectfully,

Kris Williams, CHMM, REM  
Operations Manager

Attached: Drilling Locations Maps  
Soil Boring Logs




 <b>HRL COMPLIANCE SOLUTIONS</b>							BORING LOG/MONITORING WELL COMPLETION DIAGRAM					
							Boring/Well Number:			Location:		
							MW-1			Ross Draw Unit #38		
							Date:			Client:		
							12/8/2020			WPX Energy		
Drilling Method:			Sampling Method:				Logged By:			Drilled By:		
Air Rotary			None				J. Linn, PG			Talon LPE		
Gravel Pack Type:			Gravel Pack Depth Interval:				Seal Type:		Seal Depth Interval:		Latitude:	
10/20 Sand			3 Bags				None		None		32.030300	
Casing Type:		Diameter:		Depth Interval:			Boring Total Depth (ft. BGS):			Longitude:		
PVC		2-inch		0-100 feet bgs			105			-103.871338		
Screen Type:		Slot:		Diameter:		Depth Interval:		Well Total Depth (ft. BGS):			Depth to Water (ft. BTOC):	
PVC		0.010-inch		2-inch		100-105 ft		105			> 105	
DTW Date:												
12/16/2020												
Depth Interval (ft)	Recovery (ft)	Plasticity	Moisture	Odor	Staining	PID (ppm)	USCS	Sample ID	Lithology/Remarks		Well Completion	
0	NM	L	D	N	N	NM	SW	NS	Pale orange/pale pink to buff colored fine sand with minor medium and coarse sand			
5												
10												
15												
20	NM	L	D	N	N	NM	SP	NS	Pale orange/pale pink poorly graded fine sand			
25												
30												
35	NM	L	D	N	N	NM	SP	NS	Tan/pale brown/pale orange poorly graded fine sand			
40												
45												
50												
55												
60												
65	NM	L	D	N	N	NM	SP	NS	Brick red brown poorly graded fine sand			
70												
75												
80												
85												
90												
95	NM	L	D	N	N	NM	SP	NS	Tan/pale brown/pale orange poorly graded fine sand - TD 105' BGS			
100												



## Ross Draw Unit #038

Distance to Nearest Depth to Water = 0.0 Ft.

### Legend

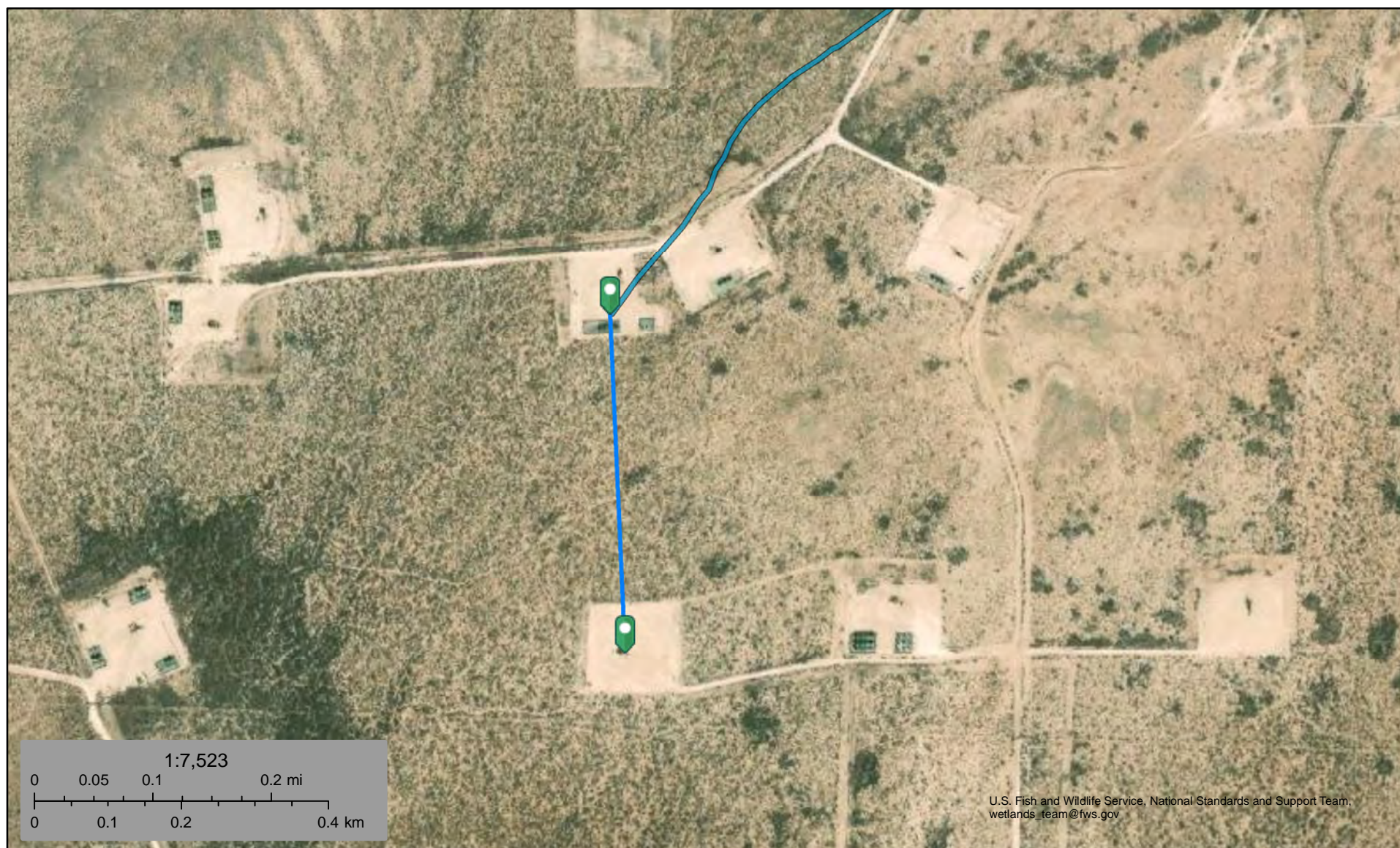
-  DTW >105ft. Ross Draw Unit #38
-  Ross Draw Unit #038
-  Spill Area







## Ross Draw Unit #038 - Wetland 0.24 Miles



February 9, 2023

**Wetlands**

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond

- Lake
- Other
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.





## Ross Draw Unit #038 - Wetland 2.85 Miles



February 9, 2023

**Wetlands**

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond

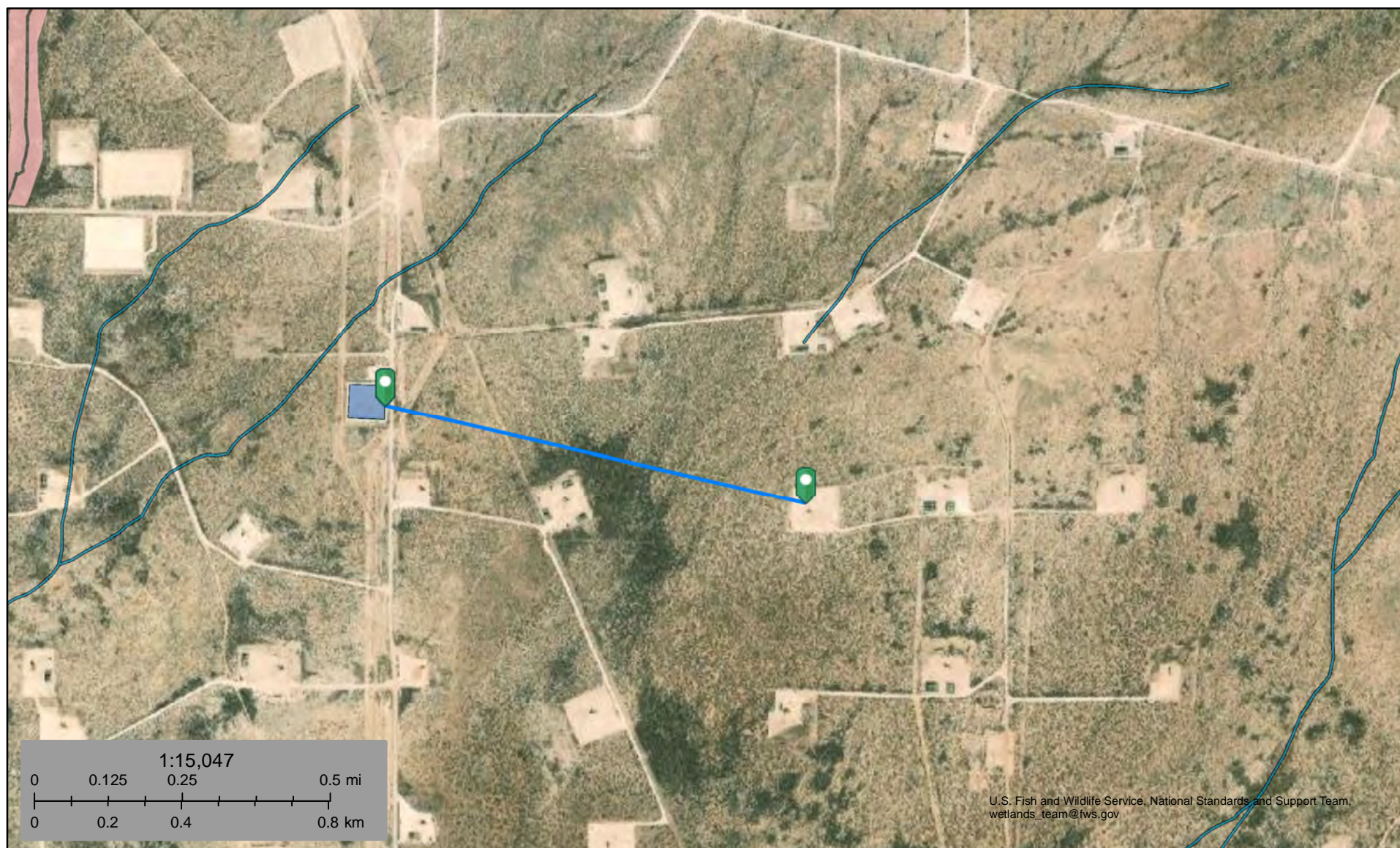
- Lake
- Other
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.





# Ross Draw Unit #038 - FW Pond 0.62 Miles



February 9, 2023

## Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond

- Lake
- Other
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.



# National Flood Hazard Layer FIRMette



103°52'36"W 32°2'4"N



## Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
GENERAL STRUCTURES		Area of Undetermined Flood Hazard Zone D
		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
MAP PANELS		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature
		Digital Data Available
		No Digital Data Available
		Unmapped



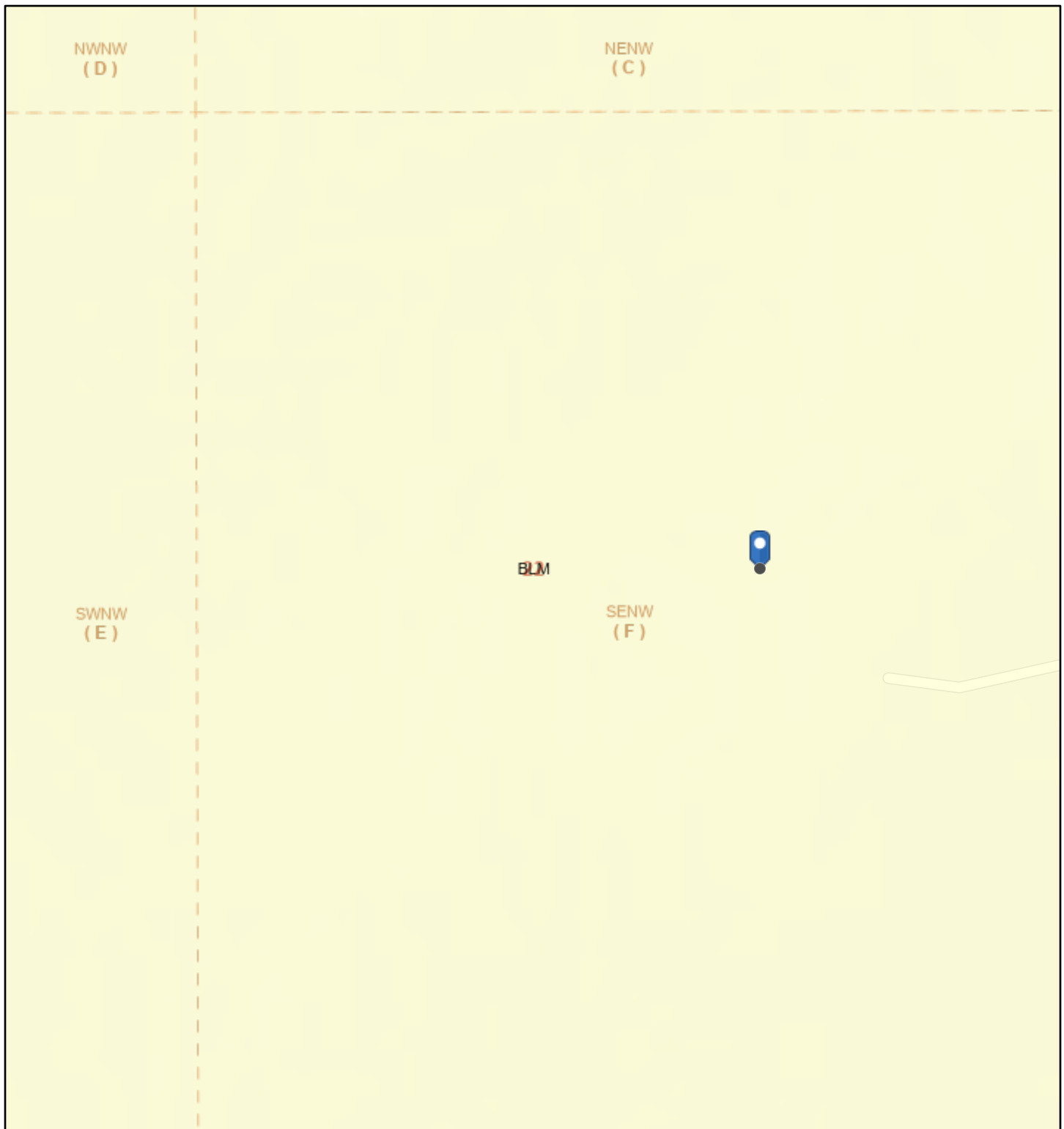
The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 2/9/2023 at 3:16 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.


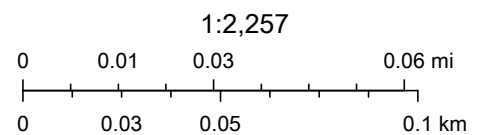
This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

## Active Mines near Ross Draw Unit #038



2/9/2023, 1:12:56 PM

## Land Ownership

 BLM PLSS Second Division PLSS First Division

U.S. BLM, Esri Community Maps Contributors, Texas Parks & Wildlife, © OpenStreetMap, Microsoft, CONANP, Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, Sources: Esri, Airbus DS, USGS, NGA, NASA, CGIAR, N Robinson,





EMNRD MMD GIS Coordinator



# Ross Draw Unit #038

Distance to Nearest Residence = 7.21 Miles

## Legend

-  Distance = 7.21 Miles
-  Nearest Residence
-  Ross Draw Unit #038
-  Spill Area

Ross Draw Unit #038

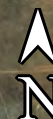


TEXAS

Nearest Residence



Google Earth



3 mi



# ATTACHMENT D

## Karst Map



**Energizing America**

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**Ross Draw Unit #038** | Incident ID: nAPP2303239586

# Ross Draw Unit #038

Karst Potential = Medium

Legend

01 Low

02 Medium

03 High

Ross Draw Unit #038

Spill Area

Ross Draw Unit #038





# ATTACHMENT E

## Envirotech Inc. Laboratory Analysis Reports



**Energizing America**

**wescominc.com** | info@wescominc.com | 218-724-1322

**Ross Draw Unit #038** | Incident ID: nAPP2303239586

Report to:

Ashley Giovengo



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Devon Energy - Carlsbad

Project Name: Ross Draw Unit #038

Work Order: E302073

Job Number: 01058-0007

Received: 2/15/2023

Revision: 2

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
2/20/23

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: 2/20/23



Ashley Giovengo  
6488 7 Rivers Hwy  
Artesia, NM 88210

Project Name: Ross Draw Unit #038  
Workorder: E302073  
Date Received: 2/15/2023 7:45:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/15/2023 7:45:00AM, under the Project Name: Ross Draw Unit #038.

The analytical test results summarized in this report with the Project Name: Ross Draw Unit #038 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  
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

Devon Energy - Carlsbad	Project Name:	Ross Draw Unit #038	<b>Reported:</b> 02/20/23 12:36
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BG01-1'	E302073-01A	Soil	02/10/23	02/15/23	Glass Jar, 2 oz.
SS02A-0'	E302073-02A	Soil	02/10/23	02/15/23	Glass Jar, 2 oz.
SS03B-0'	E302073-03A	Soil	02/10/23	02/15/23	Glass Jar, 2 oz.
SS04-0'	E302073-04A	Soil	02/10/23	02/15/23	Glass Jar, 2 oz.
SS05-0'	E302073-05A	Soil	02/10/23	02/15/23	Glass Jar, 2 oz.



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: Ross Draw Unit #038  
Project Number: 01058-0007  
Project Manager: Ashley Giovengo

**Reported:**  
2/20/2023 12:36:45PM

## BG01-1'

## E302073-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2307023	
Benzene	ND	0.0250	1	02/15/23	02/17/23	
Ethylbenzene	ND	0.0250	1	02/15/23	02/17/23	
Toluene	ND	0.0250	1	02/15/23	02/17/23	
o-Xylene	ND	0.0250	1	02/15/23	02/17/23	
p,m-Xylene	ND	0.0500	1	02/15/23	02/17/23	
Total Xylenes	ND	0.0250	1	02/15/23	02/17/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	101 %	70-130		02/15/23	02/17/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2307023	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/23	02/17/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.4 %	70-130		02/15/23	02/17/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2307029	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/16/23	02/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/16/23	02/16/23	
<i>Surrogate: n-Nonane</i>						
	108 %	50-200		02/16/23	02/16/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2307027	
Chloride	ND	20.0	1	02/15/23	02/15/23	





## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: Ross Draw Unit #038  
Project Number: 01058-0007  
Project Manager: Ashley Giovengo

**Reported:**  
2/20/2023 12:36:45PM

SS02A-0'

E302073-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2307023
Benzene	ND	0.0250	1	02/15/23	02/17/23	
Ethylbenzene	ND	0.0250	1	02/15/23	02/17/23	
Toluene	ND	0.0250	1	02/15/23	02/17/23	
o-Xylene	ND	0.0250	1	02/15/23	02/17/23	
p,m-Xylene	ND	0.0500	1	02/15/23	02/17/23	
Total Xylenes	ND	0.0250	1	02/15/23	02/17/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		100 %	70-130	02/15/23	02/17/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2307023
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/23	02/17/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		94.2 %	70-130	02/15/23	02/17/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2307029
Diesel Range Organics (C10-C28)	ND	25.0	1	02/16/23	02/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/16/23	02/16/23	
<i>Surrogate: n-Nonane</i>						
		108 %	50-200	02/16/23	02/16/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2307027
Chloride	169	40.0	2	02/15/23	02/15/23	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: Ross Draw Unit #038  
Project Number: 01058-0007  
Project Manager: Ashley Giovengo

**Reported:**  
2/20/2023 12:36:45PM

SS03B-0'

E302073-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2307023
Benzene	ND	0.0250	1	02/15/23	02/17/23	
Ethylbenzene	ND	0.0250	1	02/15/23	02/17/23	
Toluene	ND	0.0250	1	02/15/23	02/17/23	
o-Xylene	ND	0.0250	1	02/15/23	02/17/23	
p,m-Xylene	ND	0.0500	1	02/15/23	02/17/23	
Total Xylenes	ND	0.0250	1	02/15/23	02/17/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	02/15/23	02/17/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2307023
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/23	02/17/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		93.7 %	70-130	02/15/23	02/17/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2307029
Diesel Range Organics (C10-C28)	ND	25.0	1	02/16/23	02/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/16/23	02/16/23	
<i>Surrogate: n-Nonane</i>						
		107 %	50-200	02/16/23	02/16/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2307027
Chloride	319	200	10	02/15/23	02/15/23	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: Ross Draw Unit #038  
Project Number: 01058-0007  
Project Manager: Ashley Giovengo

**Reported:**  
2/20/2023 12:36:45PM

SS04-0'

E302073-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2307023
Benzene	ND	0.0250	1	02/15/23	02/17/23	
Ethylbenzene	ND	0.0250	1	02/15/23	02/17/23	
Toluene	ND	0.0250	1	02/15/23	02/17/23	
o-Xylene	ND	0.0250	1	02/15/23	02/17/23	
p,m-Xylene	ND	0.0500	1	02/15/23	02/17/23	
Total Xylenes	ND	0.0250	1	02/15/23	02/17/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	02/15/23	02/17/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2307023
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/23	02/17/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		93.7 %	70-130	02/15/23	02/17/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2307029
Diesel Range Organics (C10-C28)	ND	25.0	1	02/16/23	02/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/16/23	02/16/23	
<i>Surrogate: n-Nonane</i>						
		107 %	50-200	02/16/23	02/16/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2307027
Chloride	232	200	10	02/15/23	02/15/23	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: Ross Draw Unit #038  
Project Number: 01058-0007  
Project Manager: Ashley Giovengo

**Reported:**  
2/20/2023 12:36:45PM

SS05-0'

E302073-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2307023
Benzene	ND	0.0250	1	02/15/23	02/17/23	
Ethylbenzene	ND	0.0250	1	02/15/23	02/17/23	
Toluene	ND	0.0250	1	02/15/23	02/17/23	
o-Xylene	ND	0.0250	1	02/15/23	02/17/23	
p,m-Xylene	ND	0.0500	1	02/15/23	02/17/23	
Total Xylenes	ND	0.0250	1	02/15/23	02/17/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	02/15/23	02/17/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2307023
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/23	02/17/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		93.9 %	70-130	02/15/23	02/17/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2307029
Diesel Range Organics (C10-C28)	ND	25.0	1	02/16/23	02/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/16/23	02/16/23	
<i>Surrogate: n-Nonane</i>						
		110 %	50-200	02/16/23	02/16/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2307027
Chloride	ND	200	10	02/15/23	02/15/23	



## QC Summary Data

Devon Energy - Carlsbad	Project Name:	Ross Draw Unit #038	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	2/20/2023 12:36:45PM

## 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 (2307023-BLK1)

Prepared: 02/15/23 Analyzed: 02/16/23

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	7.98		8.00		99.7	70-130			

## LCS (2307023-BS1)

Prepared: 02/15/23 Analyzed: 02/16/23

Benzene	4.79	0.0250	5.00		95.9	70-130			
Ethylbenzene	4.90	0.0250	5.00		98.0	70-130			
Toluene	4.99	0.0250	5.00		99.9	70-130			
o-Xylene	5.03	0.0250	5.00		101	70-130			
p,m-Xylene	9.95	0.0500	10.0		99.5	70-130			
Total Xylenes	15.0	0.0250	15.0		99.8	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.30		8.00		104	70-130			

## Matrix Spike (2307023-MS1)

Source: E302072-01

Prepared: 02/15/23 Analyzed: 02/16/23

Benzene	4.58	0.0250	5.00	ND	91.6	54-133			
Ethylbenzene	4.62	0.0250	5.00	ND	92.5	61-133			
Toluene	4.74	0.0250	5.00	ND	94.8	61-130			
o-Xylene	4.76	0.0250	5.00	ND	95.3	63-131			
p,m-Xylene	9.36	0.0500	10.0	ND	93.6	63-131			
Total Xylenes	14.1	0.0250	15.0	ND	94.1	63-131			
Surrogate: 4-Bromochlorobenzene-PID	8.25		8.00		103	70-130			

## Matrix Spike Dup (2307023-MSD1)

Source: E302072-01

Prepared: 02/15/23 Analyzed: 02/16/23

Benzene	4.75	0.0250	5.00	ND	95.0	54-133	3.61	20	
Ethylbenzene	4.83	0.0250	5.00	ND	96.7	61-133	4.44	20	
Toluene	4.93	0.0250	5.00	ND	98.6	61-130	3.94	20	
o-Xylene	4.96	0.0250	5.00	ND	99.3	63-131	4.11	20	
p,m-Xylene	9.79	0.0500	10.0	ND	97.9	63-131	4.54	20	
Total Xylenes	14.8	0.0250	15.0	ND	98.4	63-131	4.40	20	
Surrogate: 4-Bromochlorobenzene-PID	8.31		8.00		104	70-130			



## QC Summary Data

Devon Energy - Carlsbad	Project Name:	Ross Draw Unit #038	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	2/20/2023 12:36:45PM

## 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 (2307023-BLK1)

Prepared: 02/15/23 Analyzed: 02/16/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.61		8.00		95.2	70-130			

## LCS (2307023-BS2)

Prepared: 02/15/23 Analyzed: 02/16/23

Gasoline Range Organics (C6-C10)	43.6	20.0	50.0		87.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.64		8.00		95.5	70-130			

## Matrix Spike (2307023-MS2)

Source: E302072-01

Prepared: 02/15/23 Analyzed: 02/17/23

Gasoline Range Organics (C6-C10)	45.5	20.0	50.0	ND	91.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.53		8.00		94.2	70-130			

## Matrix Spike Dup (2307023-MSD2)

Source: E302072-01

Prepared: 02/15/23 Analyzed: 02/16/23

Gasoline Range Organics (C6-C10)	43.0	20.0	50.0	ND	86.1	70-130	5.60	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.57		8.00		94.6	70-130			





## QC Summary Data

Devon Energy - Carlsbad	Project Name:	Ross Draw Unit #038	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	2/20/2023 12:36:45PM

## Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: RAS

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 (2307029-BLK1)

Prepared: 02/16/23 Analyzed: 02/16/23

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	58.4		50.0		117	50-200			

## LCS (2307029-BS1)

Prepared: 02/16/23 Analyzed: 02/16/23

Diesel Range Organics (C10-C28)	208	25.0	250		83.4	38-132			
Surrogate: n-Nonane	52.7		50.0		105	50-200			

## Matrix Spike (2307029-MS1)

Source: E302072-01

Prepared: 02/16/23 Analyzed: 02/16/23

Diesel Range Organics (C10-C28)	212	25.0	250	ND	84.9	38-132			
Surrogate: n-Nonane	49.0		50.0		97.9	50-200			

## Matrix Spike Dup (2307029-MSD1)

Source: E302072-01

Prepared: 02/16/23 Analyzed: 02/16/23

Diesel Range Organics (C10-C28)	200	25.0	250	ND	79.9	38-132	6.09	20	
Surrogate: n-Nonane	47.0		50.0		93.9	50-200			



## QC Summary Data

Devon Energy - Carlsbad	Project Name:	Ross Draw Unit #038	<b>Reported:</b>
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Ashley Giovengo	2/20/2023 12:36:45PM

## 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 (2307027-BLK1)

Prepared: 02/15/23 Analyzed: 02/15/23

Chloride ND 20.0

## LCS (2307027-BS1)

Prepared: 02/15/23 Analyzed: 02/15/23

Chloride 259 20.0 250 104 90-110

## Matrix Spike (2307027-MS1)

Source: E302072-01

Prepared: 02/15/23 Analyzed: 02/15/23

Chloride 303 20.0 250 51.4 101 80-120

## Matrix Spike Dup (2307027-MSD1)

Source: E302072-01

Prepared: 02/15/23 Analyzed: 02/15/23

Chloride 310 20.0 250 51.4 104 80-120 2.41 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

Devon Energy - Carlsbad	Project Name:	Ross Draw Unit #038	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	02/20/23 12:36

- 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: 2/15/2023 11:01:05AM

## 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:	Devon Energy - Carlsbad	Date Received:	02/15/23 07:45	Work Order ID:	E302073
Phone:	(505) 382-1211	Date Logged In:	02/15/23 10:55	Logged In By:	Alexa Michaels
Email:	ashley.giovengo@wescominc.com	Due Date:	02/21/23 07:00 (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:

Comments/ResolutionSample 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:  
Jerrod Inskeep



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Devon Energy - Carlsbad

Project Name: Ross Draw Unit #038

Work Order: E304013

Job Number: 01058-0007

Received: 4/5/2023

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
4/6/23

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: 4/6/23



Jerrod Inskeep  
6488 7 Rivers Hwy  
Artesia, NM 88210

Project Name: Ross Draw Unit #038  
Workorder: E304013  
Date Received: 4/5/2023 7:00:00AM

Jerrod Inskeep,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/5/2023 7:00:00AM, under the Project Name: Ross Draw Unit #038.

The analytical test results summarized in this report with the Project Name: Ross Draw Unit #038 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)

**Raina Schwanz**  
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**Alexa Michaels**  
Sample Custody Officer  
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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

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: Ross Draw Unit #038 Project Number: 01058-0007 Project Manager: Jerrod Inskeep	Reported: 04/06/23 13:30
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CONF01 - 3'	E304013-01A	Soil	04/03/23	04/05/23	Glass Jar, 2 oz.
CONF02 - 2'	E304013-02A	Soil	04/03/23	04/05/23	Glass Jar, 2 oz.
CONF03 - 2'	E304013-03A	Soil	04/03/23	04/05/23	Glass Jar, 2 oz.
CONF04 - 2'	E304013-04A	Soil	04/03/23	04/05/23	Glass Jar, 2 oz.
CONF05 - 2'	E304013-05A	Soil	04/03/23	04/05/23	Glass Jar, 2 oz.
CONF06 - 2'	E304013-06A	Soil	04/03/23	04/05/23	Glass Jar, 2 oz.
CONF07 - 2'	E304013-07A	Soil	04/03/23	04/05/23	Glass Jar, 2 oz.
CONF08 Wall - .5'	E304013-08A	Soil	04/03/23	04/05/23	Glass Jar, 2 oz.
CONF09 Wall - .5'	E304013-09A	Soil	04/03/23	04/05/23	Glass Jar, 2 oz.
CONF10 Wall - .5'	E304013-10A	Soil	04/03/23	04/05/23	Glass Jar, 2 oz.





## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: Ross Draw Unit #038  
Project Number: 01058-0007  
Project Manager: Jerrod Inskeep

**Reported:**  
4/6/2023 1:30:16PM

## CONF01 - 3'

## E304013-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2314027
Benzene	ND	0.0250	1	04/05/23	04/05/23	
Ethylbenzene	ND	0.0250	1	04/05/23	04/05/23	
Toluene	ND	0.0250	1	04/05/23	04/05/23	
o-Xylene	ND	0.0250	1	04/05/23	04/05/23	
p,m-Xylene	ND	0.0500	1	04/05/23	04/05/23	
Total Xylenes	ND	0.0250	1	04/05/23	04/05/23	
Surrogate: Bromofluorobenzene	96.6 %	70-130		04/05/23	04/05/23	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		04/05/23	04/05/23	
Surrogate: Toluene-d8	102 %	70-130		04/05/23	04/05/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2314027
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/05/23	04/05/23	
Surrogate: Bromofluorobenzene	96.6 %	70-130		04/05/23	04/05/23	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		04/05/23	04/05/23	
Surrogate: Toluene-d8	102 %	70-130		04/05/23	04/05/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2314032
Diesel Range Organics (C10-C28)	ND	25.0	1	04/05/23	04/05/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/05/23	04/05/23	
Surrogate: n-Nonane	111 %	50-200		04/05/23	04/05/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2314036
Chloride	2540	40.0	2	04/05/23	04/05/23	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: Ross Draw Unit #038  
Project Number: 01058-0007  
Project Manager: Jerrod Inskeep

**Reported:**  
4/6/2023 1:30:16PM

## CONF02 - 2'

## E304013-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2314027
Benzene	ND	0.0250	1	04/05/23	04/05/23	
Ethylbenzene	ND	0.0250	1	04/05/23	04/05/23	
Toluene	ND	0.0250	1	04/05/23	04/05/23	
o-Xylene	ND	0.0250	1	04/05/23	04/05/23	
p,m-Xylene	ND	0.0500	1	04/05/23	04/05/23	
Total Xylenes	ND	0.0250	1	04/05/23	04/05/23	
Surrogate: Bromofluorobenzene	96.0 %	70-130		04/05/23	04/05/23	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		04/05/23	04/05/23	
Surrogate: Toluene-d8	103 %	70-130		04/05/23	04/05/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2314027
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/05/23	04/05/23	
Surrogate: Bromofluorobenzene	96.0 %	70-130		04/05/23	04/05/23	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		04/05/23	04/05/23	
Surrogate: Toluene-d8	103 %	70-130		04/05/23	04/05/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2314032
Diesel Range Organics (C10-C28)	31.4	25.0	1	04/05/23	04/05/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/05/23	04/05/23	
Surrogate: n-Nonane	111 %	50-200		04/05/23	04/05/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2314036
Chloride	3470	40.0	2	04/05/23	04/05/23	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: Ross Draw Unit #038  
Project Number: 01058-0007  
Project Manager: Jerrod Inskeep

**Reported:**  
4/6/2023 1:30:16PM

## CONF03 - 2'

## E304013-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2314027
Benzene	ND	0.0250	1	04/05/23	04/05/23	
Ethylbenzene	ND	0.0250	1	04/05/23	04/05/23	
Toluene	ND	0.0250	1	04/05/23	04/05/23	
o-Xylene	ND	0.0250	1	04/05/23	04/05/23	
p,m-Xylene	ND	0.0500	1	04/05/23	04/05/23	
Total Xylenes	ND	0.0250	1	04/05/23	04/05/23	
Surrogate: Bromofluorobenzene	94.9 %	70-130		04/05/23	04/05/23	
Surrogate: 1,2-Dichloroethane-d4	105 %	70-130		04/05/23	04/05/23	
Surrogate: Toluene-d8	102 %	70-130		04/05/23	04/05/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2314027
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/05/23	04/05/23	
Surrogate: Bromofluorobenzene	94.9 %	70-130		04/05/23	04/05/23	
Surrogate: 1,2-Dichloroethane-d4	105 %	70-130		04/05/23	04/05/23	
Surrogate: Toluene-d8	102 %	70-130		04/05/23	04/05/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2314032
Diesel Range Organics (C10-C28)	ND	25.0	1	04/05/23	04/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/05/23	04/06/23	
Surrogate: n-Nonane	96.3 %	50-200		04/05/23	04/06/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2314036
Chloride	3630	40.0	2	04/05/23	04/05/23	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: Ross Draw Unit #038  
Project Number: 01058-0007  
Project Manager: Jerrod Inskeep

**Reported:**  
4/6/2023 1:30:16PM

## CONF04 - 2'

## E304013-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2314027
Benzene	ND	0.0250	1	04/05/23	04/05/23	
Ethylbenzene	ND	0.0250	1	04/05/23	04/05/23	
Toluene	ND	0.0250	1	04/05/23	04/05/23	
o-Xylene	ND	0.0250	1	04/05/23	04/05/23	
p,m-Xylene	ND	0.0500	1	04/05/23	04/05/23	
Total Xylenes	ND	0.0250	1	04/05/23	04/05/23	
Surrogate: Bromofluorobenzene	96.0 %	70-130		04/05/23	04/05/23	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		04/05/23	04/05/23	
Surrogate: Toluene-d8	102 %	70-130		04/05/23	04/05/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2314027
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/05/23	04/05/23	
Surrogate: Bromofluorobenzene	96.0 %	70-130		04/05/23	04/05/23	
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130		04/05/23	04/05/23	
Surrogate: Toluene-d8	102 %	70-130		04/05/23	04/05/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2314032
Diesel Range Organics (C10-C28)	ND	25.0	1	04/05/23	04/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/05/23	04/06/23	
Surrogate: n-Nonane	102 %	50-200		04/05/23	04/06/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2314036
Chloride	3700	40.0	2	04/05/23	04/05/23	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: Ross Draw Unit #038  
Project Number: 01058-0007  
Project Manager: Jerrod Inskeep

**Reported:**  
4/6/2023 1:30:16PM

CONF05 - 2'

E304013-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2314027
Benzene	ND	0.0250	1	04/05/23	04/05/23	
Ethylbenzene	ND	0.0250	1	04/05/23	04/05/23	
Toluene	ND	0.0250	1	04/05/23	04/05/23	
o-Xylene	ND	0.0250	1	04/05/23	04/05/23	
p,m-Xylene	ND	0.0500	1	04/05/23	04/05/23	
Total Xylenes	ND	0.0250	1	04/05/23	04/05/23	
Surrogate: Bromofluorobenzene	94.4 %	70-130		04/05/23	04/05/23	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		04/05/23	04/05/23	
Surrogate: Toluene-d8	101 %	70-130		04/05/23	04/05/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2314027
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/05/23	04/05/23	
Surrogate: Bromofluorobenzene	94.4 %	70-130		04/05/23	04/05/23	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		04/05/23	04/05/23	
Surrogate: Toluene-d8	101 %	70-130		04/05/23	04/05/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2314032
Diesel Range Organics (C10-C28)	ND	25.0	1	04/05/23	04/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/05/23	04/06/23	
Surrogate: n-Nonane	103 %	50-200		04/05/23	04/06/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2314036
Chloride	926	20.0	1	04/05/23	04/05/23	





## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: Ross Draw Unit #038  
Project Number: 01058-0007  
Project Manager: Jerrod Inskeep

**Reported:**  
4/6/2023 1:30:16PM

## CONF06 - 2'

## E304013-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2314027
Benzene	ND	0.0250	1	04/05/23	04/05/23	
Ethylbenzene	ND	0.0250	1	04/05/23	04/05/23	
Toluene	ND	0.0250	1	04/05/23	04/05/23	
o-Xylene	ND	0.0250	1	04/05/23	04/05/23	
p,m-Xylene	ND	0.0500	1	04/05/23	04/05/23	
Total Xylenes	ND	0.0250	1	04/05/23	04/05/23	
Surrogate: Bromofluorobenzene	94.2 %	70-130		04/05/23	04/05/23	
Surrogate: 1,2-Dichloroethane-d4	97.7 %	70-130		04/05/23	04/05/23	
Surrogate: Toluene-d8	103 %	70-130		04/05/23	04/05/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2314027
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/05/23	04/05/23	
Surrogate: Bromofluorobenzene	94.2 %	70-130		04/05/23	04/05/23	
Surrogate: 1,2-Dichloroethane-d4	97.7 %	70-130		04/05/23	04/05/23	
Surrogate: Toluene-d8	103 %	70-130		04/05/23	04/05/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2314032
Diesel Range Organics (C10-C28)	ND	25.0	1	04/05/23	04/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/05/23	04/06/23	
Surrogate: n-Nonane	103 %	50-200		04/05/23	04/06/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2314036
Chloride	397	20.0	1	04/05/23	04/05/23	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: Ross Draw Unit #038  
Project Number: 01058-0007  
Project Manager: Jerrod Inskeep

**Reported:**  
4/6/2023 1:30:16PM

## CONF07 - 2'

## E304013-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2314027
Benzene	ND	0.0250	1	04/05/23	04/05/23	
Ethylbenzene	ND	0.0250	1	04/05/23	04/05/23	
Toluene	ND	0.0250	1	04/05/23	04/05/23	
o-Xylene	ND	0.0250	1	04/05/23	04/05/23	
p,m-Xylene	ND	0.0500	1	04/05/23	04/05/23	
Total Xylenes	ND	0.0250	1	04/05/23	04/05/23	
Surrogate: Bromofluorobenzene	93.5 %	70-130		04/05/23	04/05/23	
Surrogate: 1,2-Dichloroethane-d4	98.1 %	70-130		04/05/23	04/05/23	
Surrogate: Toluene-d8	103 %	70-130		04/05/23	04/05/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2314027
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/05/23	04/05/23	
Surrogate: Bromofluorobenzene	93.5 %	70-130		04/05/23	04/05/23	
Surrogate: 1,2-Dichloroethane-d4	98.1 %	70-130		04/05/23	04/05/23	
Surrogate: Toluene-d8	103 %	70-130		04/05/23	04/05/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2314032
Diesel Range Organics (C10-C28)	ND	25.0	1	04/05/23	04/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/05/23	04/06/23	
Surrogate: n-Nonane	106 %	50-200		04/05/23	04/06/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2314036
Chloride	271	20.0	1	04/05/23	04/05/23	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: Ross Draw Unit #038  
Project Number: 01058-0007  
Project Manager: Jerrod Inskeep

**Reported:**  
4/6/2023 1:30:16PM

## CONF08 Wall - .5'

## E304013-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2314027
Benzene	ND	0.0250	1	04/05/23	04/05/23	
Ethylbenzene	ND	0.0250	1	04/05/23	04/05/23	
Toluene	ND	0.0250	1	04/05/23	04/05/23	
o-Xylene	ND	0.0250	1	04/05/23	04/05/23	
p,m-Xylene	ND	0.0500	1	04/05/23	04/05/23	
Total Xylenes	ND	0.0250	1	04/05/23	04/05/23	
Surrogate: Bromofluorobenzene	92.7 %	70-130		04/05/23	04/05/23	
Surrogate: 1,2-Dichloroethane-d4	97.9 %	70-130		04/05/23	04/05/23	
Surrogate: Toluene-d8	102 %	70-130		04/05/23	04/05/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2314027
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/05/23	04/05/23	
Surrogate: Bromofluorobenzene	92.7 %	70-130		04/05/23	04/05/23	
Surrogate: 1,2-Dichloroethane-d4	97.9 %	70-130		04/05/23	04/05/23	
Surrogate: Toluene-d8	102 %	70-130		04/05/23	04/05/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2314032
Diesel Range Organics (C10-C28)	ND	25.0	1	04/05/23	04/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/05/23	04/06/23	
Surrogate: n-Nonane	104 %	50-200		04/05/23	04/06/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2314036
Chloride	685	100	5	04/05/23	04/05/23	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: Ross Draw Unit #038  
Project Number: 01058-0007  
Project Manager: Jerrod Inskeep

**Reported:**  
4/6/2023 1:30:16PM

## CONF09 Wall - .5'

## E304013-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2314027
Benzene	ND	0.0250	1	04/05/23	04/05/23	
Ethylbenzene	ND	0.0250	1	04/05/23	04/05/23	
Toluene	ND	0.0250	1	04/05/23	04/05/23	
o-Xylene	ND	0.0250	1	04/05/23	04/05/23	
p,m-Xylene	ND	0.0500	1	04/05/23	04/05/23	
Total Xylenes	ND	0.0250	1	04/05/23	04/05/23	
Surrogate: Bromofluorobenzene	94.5 %	70-130		04/05/23	04/05/23	
Surrogate: 1,2-Dichloroethane-d4	99.4 %	70-130		04/05/23	04/05/23	
Surrogate: Toluene-d8	102 %	70-130		04/05/23	04/05/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2314027
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/05/23	04/05/23	
Surrogate: Bromofluorobenzene	94.5 %	70-130		04/05/23	04/05/23	
Surrogate: 1,2-Dichloroethane-d4	99.4 %	70-130		04/05/23	04/05/23	
Surrogate: Toluene-d8	102 %	70-130		04/05/23	04/05/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2314032
Diesel Range Organics (C10-C28)	ND	25.0	1	04/05/23	04/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/05/23	04/06/23	
Surrogate: n-Nonane	102 %	50-200		04/05/23	04/06/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2314036
Chloride	114	20.0	1	04/05/23	04/05/23	





## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: Ross Draw Unit #038  
Project Number: 01058-0007  
Project Manager: Jerrod Inskeep

**Reported:**  
4/6/2023 1:30:16PM

## CONF10 Wall - .5'

## E304013-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2314027
Benzene	ND	0.0250	1	04/05/23	04/05/23	
Ethylbenzene	ND	0.0250	1	04/05/23	04/05/23	
Toluene	ND	0.0250	1	04/05/23	04/05/23	
o-Xylene	ND	0.0250	1	04/05/23	04/05/23	
p,m-Xylene	ND	0.0500	1	04/05/23	04/05/23	
Total Xylenes	ND	0.0250	1	04/05/23	04/05/23	
Surrogate: Bromofluorobenzene	93.2 %	70-130		04/05/23	04/05/23	
Surrogate: 1,2-Dichloroethane-d4	97.8 %	70-130		04/05/23	04/05/23	
Surrogate: Toluene-d8	104 %	70-130		04/05/23	04/05/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2314027
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/05/23	04/05/23	
Surrogate: Bromofluorobenzene	93.2 %	70-130		04/05/23	04/05/23	
Surrogate: 1,2-Dichloroethane-d4	97.8 %	70-130		04/05/23	04/05/23	
Surrogate: Toluene-d8	104 %	70-130		04/05/23	04/05/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2314032
Diesel Range Organics (C10-C28)	ND	25.0	1	04/05/23	04/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/05/23	04/06/23	
Surrogate: n-Nonane	103 %	50-200		04/05/23	04/06/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2314036
Chloride	141	100	5	04/05/23	04/05/23	



## QC Summary Data

Devon Energy - Carlsbad	Project Name:	Ross Draw Unit #038	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Jerrold Inskeep	4/6/2023 1:30:16PM

## Volatile Organic Compounds by EPA 8260B

Analyst: IY

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

## Blank (2314027-BLK1)

Prepared: 04/05/23 Analyzed: 04/05/23

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: Bromofluorobenzene	0.472		0.500		94.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.492		0.500		98.4	70-130			
Surrogate: Toluene-d8	0.515		0.500		103	70-130			

## LCS (2314027-BS1)

Prepared: 04/05/23 Analyzed: 04/05/23

Benzene	2.16	0.0250	2.50		86.3	70-130			
Ethylbenzene	2.30	0.0250	2.50		92.0	70-130			
Toluene	2.24	0.0250	2.50		89.8	70-130			
o-Xylene	2.29	0.0250	2.50		91.7	70-130			
p,m-Xylene	4.55	0.0500	5.00		91.0	70-130			
Total Xylenes	6.84	0.0250	7.50		91.2	70-130			
Surrogate: Bromofluorobenzene	0.504		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.492		0.500		98.4	70-130			
Surrogate: Toluene-d8	0.509		0.500		102	70-130			

## Matrix Spike (2314027-MS1)

Source: E304013-09

Prepared: 04/05/23 Analyzed: 04/05/23

Benzene	2.23	0.0250	2.50	ND	89.2	48-131			
Ethylbenzene	2.35	0.0250	2.50	ND	94.1	45-135			
Toluene	2.29	0.0250	2.50	ND	91.5	48-130			
o-Xylene	2.38	0.0250	2.50	ND	95.2	43-135			
p,m-Xylene	4.65	0.0500	5.00	ND	93.0	43-135			
Total Xylenes	7.03	0.0250	7.50	ND	93.8	43-135			
Surrogate: Bromofluorobenzene	0.504		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.495		0.500		98.9	70-130			
Surrogate: Toluene-d8	0.504		0.500		101	70-130			

## Matrix Spike Dup (2314027-MSD1)

Source: E304013-09

Prepared: 04/05/23 Analyzed: 04/05/23

Benzene	2.22	0.0250	2.50	ND	88.6	48-131	0.630	23	
Ethylbenzene	2.36	0.0250	2.50	ND	94.6	45-135	0.530	27	
Toluene	2.29	0.0250	2.50	ND	91.7	48-130	0.218	24	
o-Xylene	2.39	0.0250	2.50	ND	95.4	43-135	0.273	27	
p,m-Xylene	4.73	0.0500	5.00	ND	94.5	43-135	1.61	27	
Total Xylenes	7.11	0.0250	7.50	ND	94.8	43-135	1.16	27	
Surrogate: Bromofluorobenzene	0.507		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.512		0.500		102	70-130			
Surrogate: Toluene-d8	0.505		0.500		101	70-130			



## QC Summary Data

Devon Energy - Carlsbad	Project Name:	Ross Draw Unit #038	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Jerrold Inskeep	4/6/2023 1:30:16PM

## 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 (2314027-BLK1)

Prepared: 04/05/23 Analyzed: 04/05/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.472		0.500		94.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.492		0.500		98.4	70-130			
Surrogate: Toluene-d8	0.515		0.500		103	70-130			

## LCS (2314027-BS2)

Prepared: 04/05/23 Analyzed: 04/05/23

Gasoline Range Organics (C6-C10)	48.4	20.0	50.0		96.7	70-130			
Surrogate: Bromofluorobenzene	0.495		0.500		99.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.493		0.500		98.5	70-130			
Surrogate: Toluene-d8	0.506		0.500		101	70-130			

## Matrix Spike (2314027-MS2)

Source: E304013-09

Prepared: 04/05/23 Analyzed: 04/05/23

Gasoline Range Organics (C6-C10)	48.7	20.0	50.0	ND	97.4	70-130			
Surrogate: Bromofluorobenzene	0.505		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.514		0.500		103	70-130			
Surrogate: Toluene-d8	0.505		0.500		101	70-130			

## Matrix Spike Dup (2314027-MSD2)

Source: E304013-09

Prepared: 04/05/23 Analyzed: 04/05/23

Gasoline Range Organics (C6-C10)	48.2	20.0	50.0	ND	96.5	70-130	0.932	20	
Surrogate: Bromofluorobenzene	0.503		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.509		0.500		102	70-130			
Surrogate: Toluene-d8	0.502		0.500		100	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Ross Draw Unit #038	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Jerrold Inskeep	4/6/2023 1:30:16PM

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 (2314032-BLK1)					Prepared: 04/05/23 Analyzed: 04/05/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	58.5		50.0		117	50-200			

LCS (2314032-BS1)					Prepared: 04/05/23 Analyzed: 04/05/23				
Diesel Range Organics (C10-C28)	273	25.0	250		109	38-132			
Surrogate: n-Nonane	48.3		50.0		96.6	50-200			

Matrix Spike (2314032-MS1)					Source: E304013-09		Prepared: 04/05/23 Analyzed: 04/05/23		
Diesel Range Organics (C10-C28)	279	25.0	250	ND	112	38-132			
Surrogate: n-Nonane	43.7		50.0		87.5	50-200			

Matrix Spike Dup (2314032-MSD1)					Source: E304013-09		Prepared: 04/05/23 Analyzed: 04/05/23		
Diesel Range Organics (C10-C28)	287	25.0	250	ND	115	38-132	2.62	20	
Surrogate: n-Nonane	48.4		50.0		96.7	50-200			





QC Summary Data

Devon Energy - Carlsbad	Project Name:	Ross Draw Unit #038	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Jerrod Inskeep	4/6/2023 1:30:16PM

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 (2314036-BLK1)					Prepared: 04/05/23 Analyzed: 04/05/23				
Chloride	ND	20.0							
LCS (2314036-BS1)					Prepared: 04/05/23 Analyzed: 04/05/23				
Chloride	254	20.0	250		102	90-110			
Matrix Spike (2314036-MS1)					Source: E304017-01		Prepared: 04/05/23 Analyzed: 04/05/23		
Chloride	337	20.0	250	85.8	100	80-120			
Matrix Spike Dup (2314036-MSD1)					Source: E304017-01		Prepared: 04/05/23 Analyzed: 04/05/23		
Chloride	341	20.0	250	85.8	102	80-120	1.08	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

Devon Energy - Carlsbad	Project Name:	Ross Draw Unit #038	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Jerrod Inskeep	04/06/23 13:30

- 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.



Client: Devon					<b>Bill To</b> Attention: Jim Raley Address: 5315 Buena Vista Dr City, State, Zip: Calsbad, NM 88220 Phone: 575-689-7597 Email: jim.raley@dvn.com					Lab Use Only					TAT				EPA Program		
Project: Ross Draw Unt #038										Lab WO# E 304013					Job Number 01058-0007					1D	2D
Project Manager: Jerrod Inskip					Address: 1224 Standpipe Rd City, State, Zip: Carlsbad, NM 88220 Phone: 505-382-1211 Email: jerrod.inskeep@wescominc.com					Analysis and Method										RCRA	
Report due by:										DRO/DRO by 8015 GRO/DRO by 8015 BTEX by 8021 VOC by 8260 Metals 6010 Chloride 300.0 BGDOC NM BGDOC TX										State NM CO UT AZ TX	
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number															Remarks	
14:09	4/3/23	Soil	1 Jar	CONF01 - 3'	1																
10:49	4/3/23	Soil	1 Jar	CONF02 - 2'	2																
10:57	4/3/23	Soil	1 Jar	CONF03 - 2'	3																
10:59	4/3/23	Soil	1 Jar	CONF04 - 2'	4																
11:02	4/3/23	Soil	1 Jar	CONF05 - 2'	5																
12:09	4/3/23	Soil	1 Jar	CONF06 - 2'	6																
12:12	4/3/23	Soil	1 Jar	CONF07 - 2'	7																
14:05	4/3/23	Soil	1 Jar	CONF08 Wall - .5'	8																
13:18	4/3/23	Soil	1 Jar	CONF09 Wall - .5'	9																
13:22	4/3/23	Soil	1 Jar	CONF10 Wall - .5'	10																
<b>Additional Instructions:</b> Kept on ice, Please CC: cole.burton@wescominc.com, shar.harvester@wescominc.com, jim.raley@dvn.com, jerrod.inskeep@wescominc.com, jason.iohnsen@wescominc.com, justin.wenner@wescominc.com																					
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling 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									
[Signature]		04-04-23		12:48pm		[Signature]		4-4-23		1248		Received on ice: (Y) N									
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		T1 T2 T3									
[Signature]		4-4-23		1715		[Signature]		4-4-23		1715											
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		AVG Temp °C									
[Signature]		4-4-23		2245		[Signature]		4/5/23		7:00		40									
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 Analytical Laboratory

Printed: 4/5/2023 9:09:40AM

## 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:	Devon Energy - Carlsbad	Date Received:	04/05/23 07:00	Work Order ID:	E304013
Phone:	(575) 748-0176	Date Logged In:	04/04/23 15:56	Logged In By:	Caitlin Christian
Email:	jerrold.inskeep@wescom.com	Due Date:	04/06/23 17:00 (1 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: CourierComments/ResolutionSample 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:

Jerrod Inskeep



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Devon Energy - Carlsbad

Project Name: Ross Draw Unit #038

Work Order: E304017

Job Number: 01058-0007

Received: 4/5/2023

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
4/10/23

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: 4/10/23



Jerrod Inskeep  
6488 7 Rivers Hwy  
Artesia, NM 88210

Project Name: Ross Draw Unit #038  
Workorder: E304017  
Date Received: 4/5/2023 8:00:00AM

Jerrod Inskeep,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/5/2023 8:00:00AM, under the Project Name: Ross Draw Unit #038.

The analytical test results summarized in this report with the Project Name: Ross Draw Unit #038 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  
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**Alexa Michaels**  
Sample Custody Officer  
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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

Devon Energy - Carlsbad	Project Name:	Ross Draw Unit #038	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Jerrod Inskeep	04/10/23 15:43

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS01 - 4'	E304017-01A	Soil	04/03/23	04/05/23	Glass Jar, 2 oz.





## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: Ross Draw Unit #038  
Project Number: 01058-0007  
Project Manager: Jerrod Inskeep

**Reported:**  
4/10/2023 3:43:48PM

SS01 - 4'

E304017-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2314029
Benzene	ND	0.0250	1	04/05/23	04/05/23	
Ethylbenzene	ND	0.0250	1	04/05/23	04/05/23	
Toluene	ND	0.0250	1	04/05/23	04/05/23	
o-Xylene	ND	0.0250	1	04/05/23	04/05/23	
p,m-Xylene	ND	0.0500	1	04/05/23	04/05/23	
Total Xylenes	ND	0.0250	1	04/05/23	04/05/23	
Surrogate: Bromofluorobenzene	100 %	70-130		04/05/23	04/05/23	
Surrogate: 1,2-Dichloroethane-d4	96.0 %	70-130		04/05/23	04/05/23	
Surrogate: Toluene-d8	100 %	70-130		04/05/23	04/05/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2314029
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/05/23	04/05/23	
Surrogate: Bromofluorobenzene	100 %	70-130		04/05/23	04/05/23	
Surrogate: 1,2-Dichloroethane-d4	96.0 %	70-130		04/05/23	04/05/23	
Surrogate: Toluene-d8	100 %	70-130		04/05/23	04/05/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2314031
Diesel Range Organics (C10-C28)	ND	25.0	1	04/05/23	04/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/05/23	04/06/23	
Surrogate: n-Nonane	100 %	50-200		04/05/23	04/06/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2314036
Chloride	85.8	20.0	1	04/05/23	04/05/23	



## QC Summary Data

Devon Energy - Carlsbad	Project Name:	Ross Draw Unit #038	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Jerrold Inskeep	4/10/2023 3:43:48PM

## Volatile Organic Compounds by EPA 8260B

Analyst: SL

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

## Blank (2314029-BLK1)

Prepared: 04/05/23 Analyzed: 04/05/23

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: Bromofluorobenzene	0.521		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.486		0.500		97.1	70-130			
Surrogate: Toluene-d8	0.507		0.500		101	70-130			

## LCS (2314029-BS1)

Prepared: 04/05/23 Analyzed: 04/05/23

Benzene	2.65	0.0250	2.50		106	70-130			
Ethylbenzene	2.67	0.0250	2.50		107	70-130			
Toluene	2.81	0.0250	2.50		112	70-130			
o-Xylene	2.62	0.0250	2.50		105	70-130			
p,m-Xylene	4.97	0.0500	5.00		99.4	70-130			
Total Xylenes	7.58	0.0250	7.50		101	70-130			
Surrogate: Bromofluorobenzene	0.437		0.500		87.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.487		0.500		97.3	70-130			
Surrogate: Toluene-d8	0.532		0.500		106	70-130			

## Matrix Spike (2314029-MS1)

Source: E304012-04

Prepared: 04/05/23 Analyzed: 04/05/23

Benzene	2.43	0.0250	2.50	ND	97.2	48-131			
Ethylbenzene	2.48	0.0250	2.50	ND	99.1	45-135			
Toluene	2.44	0.0250	2.50	ND	97.6	48-130			
o-Xylene	2.83	0.0250	2.50	ND	113	43-135			
p,m-Xylene	5.55	0.0500	5.00	ND	111	43-135			
Total Xylenes	8.37	0.0250	7.50	ND	112	43-135			
Surrogate: Bromofluorobenzene	0.555		0.500		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.525		0.500		105	70-130			
Surrogate: Toluene-d8	0.500		0.500		99.9	70-130			

## Matrix Spike Dup (2314029-MSD1)

Source: E304012-04

Prepared: 04/05/23 Analyzed: 04/05/23

Benzene	2.42	0.0250	2.50	ND	96.9	48-131	0.309	23	
Ethylbenzene	2.46	0.0250	2.50	ND	98.2	45-135	0.912	27	
Toluene	2.42	0.0250	2.50	ND	97.0	48-130	0.678	24	
o-Xylene	2.58	0.0250	2.50	ND	103	43-135	8.93	27	
p,m-Xylene	5.09	0.0500	5.00	ND	102	43-135	8.56	27	
Total Xylenes	7.68	0.0250	7.50	ND	102	43-135	8.69	27	
Surrogate: Bromofluorobenzene	0.510		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.498		0.500		99.6	70-130			
Surrogate: Toluene-d8	0.503		0.500		101	70-130			



## QC Summary Data

Devon Energy - Carlsbad	Project Name:	Ross Draw Unit #038	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Jerrold Inskeep	4/10/2023 3:43:48PM

## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

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 (2314029-BLK1)

Prepared: 04/05/23 Analyzed: 04/05/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.521		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.486		0.500		97.1	70-130			
Surrogate: Toluene-d8	0.507		0.500		101	70-130			

## LCS (2314029-BS2)

Prepared: 04/05/23 Analyzed: 04/05/23

Gasoline Range Organics (C6-C10)	46.8	20.0	50.0		93.6	70-130			
Surrogate: Bromofluorobenzene	0.504		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.519		0.500		104	70-130			
Surrogate: Toluene-d8	0.510		0.500		102	70-130			

## Matrix Spike (2314029-MS2)

Source: E304012-04

Prepared: 04/05/23 Analyzed: 04/05/23

Gasoline Range Organics (C6-C10)	53.1	20.0	50.0	ND	106	70-130			
Surrogate: Bromofluorobenzene	0.508		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.497		0.500		99.4	70-130			
Surrogate: Toluene-d8	0.510		0.500		102	70-130			

## Matrix Spike Dup (2314029-MSD2)

Source: E304012-04

Prepared: 04/05/23 Analyzed: 04/06/23

Gasoline Range Organics (C6-C10)	52.0	20.0	50.0	ND	104	70-130	2.14	20	
Surrogate: Bromofluorobenzene	0.494		0.500		98.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.484		0.500		96.7	70-130			
Surrogate: Toluene-d8	0.573		0.500		115	70-130			



## QC Summary Data

Devon Energy - Carlsbad	Project Name:	Ross Draw Unit #038	<b>Reported:</b>
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Jerrold Inskeep	4/10/2023 3:43:48PM

## 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 (2314031-BLK1)

Prepared: 04/05/23 Analyzed: 04/06/23

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	51.2		50.0		102	50-200			

## LCS (2314031-BS1)

Prepared: 04/05/23 Analyzed: 04/06/23

Diesel Range Organics (C10-C28)	280	25.0	250		112	38-132			
Surrogate: n-Nonane	52.1		50.0		104	50-200			

## Matrix Spike (2314031-MS1)

Source: E304012-06

Prepared: 04/05/23 Analyzed: 04/06/23

Diesel Range Organics (C10-C28)	12000	1250	250	13300	NR	38-132			M4
Surrogate: n-Nonane	80.8		50.0		162	50-200			

## Matrix Spike Dup (2314031-MSD1)

Source: E304012-06

Prepared: 04/05/23 Analyzed: 04/06/23

Diesel Range Organics (C10-C28)	11700	1250	250	13300	NR	38-132	2.55	20	M4
Surrogate: n-Nonane	72.5		50.0		145	50-200			





## QC Summary Data

Devon Energy - Carlsbad	Project Name:	Ross Draw Unit #038	<b>Reported:</b>
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Jerrod Inskeep	4/10/2023 3:43:48PM

## 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 (2314036-BLK1)

Prepared: 04/05/23 Analyzed: 04/05/23

Chloride	ND	20.0
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## LCS (2314036-BS1)

Prepared: 04/05/23 Analyzed: 04/05/23

Chloride	254	20.0	250	102	90-110
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## Matrix Spike (2314036-MS1)

Source: E304017-01

Prepared: 04/05/23 Analyzed: 04/05/23

Chloride	337	20.0	250	85.8	100	80-120
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## Matrix Spike Dup (2314036-MSD1)

Source: E304017-01

Prepared: 04/05/23 Analyzed: 04/05/23

Chloride	341	20.0	250	85.8	102	80-120	1.08	20
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## 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

Devon Energy - Carlsbad	Project Name:	Ross Draw Unit #038	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Jerrod Inskeep	04/10/23 15:43

- M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.
- 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.



[illegible]

Additional Instructions: Kept on ice, Please CC: cole.burton@wescominc.com, shar.harvester@wescominc.com, jim.raley@dvn.com, jerrod.inskeep@wescominc.com, jason.iohnsen@wescominc.com, justin.wenner@wescominc.com

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Sampled by: \_\_\_\_\_

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) <i>[Signature]</i>	Date 04.04.23	Time 12:48 PM	Received by: (Signature) <i>[Signature]</i>	Date 4-4-23	Time 1248	Lab Use Only Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) <i>[Signature]</i>	Date 4-4-23	Time 1715	Received by: (Signature) <i>[Signature]</i>	Date 4-4-23	Time 1715	
Relinquished by: (Signature) <i>[Signature]</i>	Date 4-4-23	Time 2245	Received by: (Signature) <i>[Signature]</i>	Date 4/5/23	Time 8:00	
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 Analytical Laboratory

Printed: 4/5/2023 9:22:26AM

## 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:	Devon Energy - Carlsbad	Date Received:	04/05/23 08:00	Work Order ID:	E304017
Phone:	(505) 382-1211	Date Logged In:	04/04/23 16:31	Logged In By:	Caitlin Christian
Email:	ashley.giovengo@wescominc.com	Due Date:	04/11/23 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: CourierComments/ResolutionSample 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:  
Jim Raley



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Devon Energy - Carlsbad

Project Name: Ross Draw Unit #038

Work Order: E304084

Job Number: 01058-0007

Received: 4/17/2023

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
4/18/23

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: 4/18/23



Jim Raley  
6488 7 Rivers Hwy  
Artesia, NM 88210

Project Name: Ross Draw Unit #038  
Workorder: E304084  
Date Received: 4/17/2023 7:15:00AM

Jim Raley,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/17/2023 7:15:00AM, under the Project Name: Ross Draw Unit #038.

The analytical test results summarized in this report with the Project Name: Ross Draw Unit #038 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)

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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

Devon Energy - Carlsbad	Project Name:	Ross Draw Unit #038	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Jim Raley	04/18/23 12:57

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CONF08 Wall- .5'	E304084-01A	Soil	04/12/23	04/17/23	Glass Jar, 2 oz.





## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: Ross Draw Unit #038  
Project Number: 01058-0007  
Project Manager: Jim Raley

**Reported:**  
4/18/2023 12:57:53PM

## CONF08 Wall- .5'

## E304084-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2316001
Benzene	ND	0.0250	1	04/17/23	04/17/23	
Ethylbenzene	ND	0.0250	1	04/17/23	04/17/23	
Toluene	ND	0.0250	1	04/17/23	04/17/23	
o-Xylene	ND	0.0250	1	04/17/23	04/17/23	
p,m-Xylene	ND	0.0500	1	04/17/23	04/17/23	
Total Xylenes	ND	0.0250	1	04/17/23	04/17/23	
Surrogate: 4-Bromochlorobenzene-PID	93.8 %	70-130		04/17/23	04/17/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2316001
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/17/23	04/17/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	97.0 %	70-130		04/17/23	04/17/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2316005
Diesel Range Organics (C10-C28)	ND	25.0	1	04/18/23	04/18/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/18/23	04/18/23	
Surrogate: n-Nonane	98.1 %	50-200		04/18/23	04/18/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2316007
Chloride	107	40.0	2	04/17/23	04/17/23	



## QC Summary Data

Devon Energy - Carlsbad	Project Name:	Ross Draw Unit #038	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Jim Raley	4/18/2023 12:57:53PM

## Volatile Organics by EPA 8021B

Analyst: SL

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 (2316001-BLK1)

Prepared: 04/17/23 Analyzed: 04/17/23

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	7.39		8.00		92.4	70-130			

## LCS (2316001-BS1)

Prepared: 04/17/23 Analyzed: 04/17/23

Benzene	4.55	0.0250	5.00		90.9	70-130			
Ethylbenzene	4.53	0.0250	5.00		90.7	70-130			
Toluene	4.66	0.0250	5.00		93.1	70-130			
o-Xylene	4.62	0.0250	5.00		92.5	70-130			
p,m-Xylene	9.26	0.0500	10.0		92.6	70-130			
Total Xylenes	13.9	0.0250	15.0		92.5	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.45		8.00		93.1	70-130			

## Matrix Spike (2316001-MS1)

Source: E304082-01

Prepared: 04/17/23 Analyzed: 04/17/23

Benzene	4.74	0.0250	5.00	ND	94.8	54-133			
Ethylbenzene	4.72	0.0250	5.00	ND	94.4	61-133			
Toluene	4.85	0.0250	5.00	ND	97.0	61-130			
o-Xylene	4.82	0.0250	5.00	ND	96.3	63-131			
p,m-Xylene	9.61	0.0500	10.0	ND	96.1	63-131			
Total Xylenes	14.4	0.0250	15.0	ND	96.2	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.55		8.00		94.3	70-130			

## Matrix Spike Dup (2316001-MSD1)

Source: E304082-01

Prepared: 04/17/23 Analyzed: 04/17/23

Benzene	4.51	0.0250	5.00	ND	90.1	54-133	5.05	20	
Ethylbenzene	4.49	0.0250	5.00	ND	89.9	61-133	4.89	20	
Toluene	4.61	0.0250	5.00	ND	92.2	61-130	5.06	20	
o-Xylene	4.58	0.0250	5.00	ND	91.6	63-131	5.04	20	
p,m-Xylene	9.16	0.0500	10.0	ND	91.6	63-131	4.83	20	
Total Xylenes	13.7	0.0250	15.0	ND	91.6	63-131	4.90	20	
Surrogate: 4-Bromochlorobenzene-PID	7.49		8.00		93.6	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Ross Draw Unit #038	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Jim Raley	4/18/2023 12:57:53PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

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 (2316001-BLK1) Prepared: 04/17/23 Analyzed: 04/17/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.73		8.00		96.6	70-130			

LCS (2316001-BS2) Prepared: 04/17/23 Analyzed: 04/17/23

Gasoline Range Organics (C6-C10)	49.1	20.0	50.0		98.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.66		8.00		95.7	70-130			

Matrix Spike (2316001-MS2) Source: E304082-01 Prepared: 04/17/23 Analyzed: 04/17/23

Gasoline Range Organics (C6-C10)	50.6	20.0	50.0	ND	101	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.85		8.00		98.1	70-130			

Matrix Spike Dup (2316001-MSD2) Source: E304082-01 Prepared: 04/17/23 Analyzed: 04/17/23

Gasoline Range Organics (C6-C10)	45.9	20.0	50.0	ND	91.9	70-130	9.70	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.87		8.00		98.4	70-130			



## QC Summary Data

Devon Energy - Carlsbad	Project Name:	Ross Draw Unit #038	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Jim Raley	4/18/2023 12:57:53PM

## 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 (2316005-BLK1)

Prepared: 04/17/23 Analyzed: 04/17/23

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	43.9		50.0		87.9	50-200			

## LCS (2316005-BS1)

Prepared: 04/17/23 Analyzed: 04/18/23

Diesel Range Organics (C10-C28)	249	25.0	250		99.5	38-132			
Surrogate: n-Nonane	51.1		50.0		102	50-200			

## Matrix Spike (2316005-MS1)

Source: E304082-01

Prepared: 04/17/23 Analyzed: 04/17/23

Diesel Range Organics (C10-C28)	257	25.0	250	ND	103	38-132			
Surrogate: n-Nonane	83.0		50.0		166	50-200			

## Matrix Spike Dup (2316005-MSD1)

Source: E304082-01

Prepared: 04/17/23 Analyzed: 04/17/23

Diesel Range Organics (C10-C28)	266	25.0	250	ND	107	38-132	3.47	20	
Surrogate: n-Nonane	70.9		50.0		142	50-200			





QC Summary Data

Devon Energy - Carlsbad	Project Name:	Ross Draw Unit #038	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Jim Raley	4/18/2023 12:57:53PM

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 (2316007-BLK1)					Prepared: 04/17/23 Analyzed: 04/17/23				
Chloride	ND	20.0							
LCS (2316007-BS1)					Prepared: 04/17/23 Analyzed: 04/17/23				
Chloride	250	20.0	250		100	90-110			
Matrix Spike (2316007-MS1)					Source: E304082-01		Prepared: 04/17/23 Analyzed: 04/17/23		
Chloride	650	100	250	306	137	80-120			M2
Matrix Spike Dup (2316007-MSD1)					Source: E304082-01		Prepared: 04/17/23 Analyzed: 04/17/23		
Chloride	660	100	250	306	141	80-120	1.49	20	M2

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

Devon Energy - Carlsbad	Project Name:	Ross Draw Unit #038	
6488 7 Rivers Hwy	Project Number:	01058-0007	<b>Reported:</b>
Artesia NM, 88210	Project Manager:	Jim Raley	04/18/23 12:57

M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.

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.



[illegible]

Additional Instructions: Kept on ice, Please CC: cole.burton@wescominc.com, shar.harvester@wescominc.com, jim.raley@dvn.com, jerrod.inskeep@wescominc.com, jason.johnsen@wescominc.com, justin.wenner@wescominc.com

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Sampled by: \_\_\_\_\_

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) <i>[Signature]</i>	Date 4-13-23	Time 7:23	Received by: (Signature) <i>[Signature]</i>	Date 4-13-23	Time 07:23	Lab Use Only Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) <i>[Signature]</i>	Date 4-14-23	Time 10:50	Received by: (Signature) <i>[Signature]</i>	Date 4-14-23	Time 1050	
Relinquished by: (Signature) <i>[Signature]</i>	Date 4-14-23	Time 1600	Received by: (Signature) <i>[Signature]</i>	Date 4-14-23	Time 15:56	
Sample Matrix: S - Soil, <del>Sd</del> - 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 Analytical Laboratory

Printed: 4/17/2023 10:55:02AM

## 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:	Devon Energy - Carlsbad	Date Received:	04/17/23 07:15	Work Order ID:	E304084
Phone:	(575) 689-7597	Date Logged In:	04/17/23 07:31	Logged In By:	Irene Yazzie
Email:	jim.raley@dvn.com	Due Date:	04/18/23 17:00 (1 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.

# ATTACHMENT F

## 48-Hour Confirmation Sampling Notification Emails



**Energizing America**

**wescominc.com** | info@wescominc.com | 218-724-1322

**Ross Draw Unit #038** | Incident ID: nAPP2303239586



**From:** [Cole Burton](#)  
**To:** [OCD. Enviro \(ocd.enviro@emnrd.nm.gov\)](mailto:ocd.enviro@emnrd.nm.gov)  
**Cc:** [Shar Harvester](#); [Justin Wenner](#); [Jason Johnsen](#); [Joey Croce](#); [Jerrod Inskip](#)  
**Subject:** 48-Hour Confirmation Sample Notice - Ross Draw Unit #038 (nAPP2303239586)  
**Date:** Tuesday, March 28, 2023 5:15:00 PM

---

Hello All,

We intend to take confirmation samples at the Ross Draw Unit #038 (nAPP2303239586) on Monday (4/3/23).

Please let us know if you plan to be onsite to oversee this sampling event.

Thanks,

**Cole Burton**, Environmental Field Technician  
O (218) 724-1322 | C (505) 205-0455  
[WescomInc.com](http://WescomInc.com) | [cole.burton@WescomInc.com](mailto:cole.burton@WescomInc.com)  
*"I am in charge of my own safety."*

**From:** [Cole Burton](#)  
**To:** [OCD. Enviro \(ocd.enviro@emnrd.nm.gov\)](mailto:OCD.Enviro@emnrd.nm.gov)  
**Cc:** [Shar Harvester](#); [Justin Wenner](#); [Jason Johnsen](#); [Joey Croce](#); [Jerrod Inskeep](#)  
**Subject:** RE: 48-Hour Confirmation Sample Notice - Ross Draw Unit #038 (nAPP2303239586)  
**Date:** Monday, April 10, 2023 7:53:00 AM

---

Hello All,

We intend to take confirmation samples at the Ross Draw Unit #038 (nAPP2303239586) on Wednesday (4/12/23).

Please let us know if you plan to be onsite to oversee this sampling event.

Thanks,

**Cole Burton**, Environmental Field Technician  
O (218) 724-1322 | C (505) 205-0455  
[WescomInc.com](http://WescomInc.com) | [cole.burton@WescomInc.com](mailto:cole.burton@WescomInc.com)  
*"I am in charge of my own safety."*

---

**From:** Cole Burton  
**Sent:** Tuesday, March 28, 2023 5:16 PM  
**To:** OCD. Enviro (ocd.enviro@emnrd.nm.gov) <ocd.enviro@emnrd.nm.gov>  
**Cc:** Shar Harvester <Shar.Harvester@WescomInc.com>; Justin Wenner <Justin.Wenner@wescominc.com>; Jason Johnsen <Jason.Johnsen@wescominc.com>; Joey Croce <Joey.Croce@WescomInc.com>; Jerrod Inskeep <Jerrod.Inskeep@wescominc.com>  
**Subject:** 48-Hour Confirmation Sample Notice - Ross Draw Unit #038 (nAPP2303239586)

Hello All,

We intend to take confirmation samples at the Ross Draw Unit #038 (nAPP2303239586) on Monday (4/3/23).

Please let us know if you plan to be onsite to oversee this sampling event.

Thanks,

**Cole Burton**, Environmental Field Technician  
O (218) 724-1322 | C (505) 205-0455  
[WescomInc.com](http://WescomInc.com) | [cole.burton@WescomInc.com](mailto:cole.burton@WescomInc.com)  
*"I am in charge of my own safety."*

**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 211548

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 211548
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	Final remediation and reclamation shall take place in accordance with 19.15.29.12 and 19.15.29.13 NMAC once the site is no longer being used for oil and gas operations.	8/28/2023