

NAPP2320533965

<b>Spill Volume(Bbls) Calculator</b>	
<i>Inputs in blue, Outputs in red</i>	
<b>Contaminated Soil measurement</b>	
Area (square feet)	Depth(inches)
<u>2466</u>	<u>1.000</u>
Cubic Feet of Soil Impacted	<u>205.500</u>
Barrels of Soil Impacted	<u>36.63</u>
Soil Type	Clay/Sand
Barrels of Oil Assuming 100% Saturation	<u>5.49</u>
Saturation	Fluid present with shovel/backhoe
Estimated Barrels of Oil Released	5.49
<b>Free Standing Fluid Only</b>	
Area (square feet)	Depth(inches)
<u>0</u>	<u>0.000</u>
Standing fluid	<u>0.000</u>
<b>Total fluids spilled</b>	<b><u>5.495</u></b>



402 E. Wood Avenue  
Carlsbad, New Mexico 88220  
Tel. 432-701-2159  
www.ntgenvironmental.com

November 2, 2023

Mike Bratcher  
District Supervisor  
Oil Conservation Division, District 2  
811 S. First Street  
Artesia, New Mexico 88210

Re: Site Characterization and Remediation Work Plan  
Gaucho Unit #017H  
Unit P, Section 19, Township 22S, Range 34E  
Site Coordinates: 32.3705139,-103.502952  
Lea County, New Mexico  
Incident ID: nAPP2320533965

## **1. Introduction**

On behalf of Devon Energy Production Company (Devon), New Tech Global Environmental, LLC (NTGE) has prepared this Site Characterization and Remediation Work Plan for submittal to the New Mexico Oil Conservation Division (NMCOD) District 2 Office in Artesia, New Mexico to document site assessment and sample analysis results for the Gaucho Unit #017H (Site). The Site is located in Unit Letter P, Section 19, of Township 22 South and Range 34 East in Lea County, New Mexico. The GPS coordinates for the release site are 32.3705139° N latitude and 103.502952° W longitude. The Site location with respect to the nearest town is shown in Figure 1 and the topography of the area is shown in Figure 2.

## **2. Background**

Based on the Release Notification C-141 Form, the release occurred on July 21<sup>st</sup>, 2023, when a leak developed from the stuffing box. Upon discovery, the Site was shut-in and repairs ensued. The spill resulted in a release of approximately 2.75 barrels (bbls) of produced water and 2.75 bbls of crude oil of which none were recovered for an approximate net loss of 2.75 bbls of produced water and 2.75 bbls of crude oil. The release area is shown in Figure 3. The Release Notification portions of Form C-141 for incident number nAPP2320533965 is attached to this report.

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For Oil & Gas  
Operations

Mr. Mike Bratcher  
November 2, 2023  
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### **3. Groundwater and Site Characterization**

Based on a review of the New Mexico Office of State Engineers and USGS databases, there is one water well (CP-01990) located within a ½-mile radius of the site drilled to 55ft bgs with no ground water encountered. No other receptors (playas, wetlands, waterways, lakebeds, or ordinance boundaries) are located within each specific boundary or distance from the Site. According to the Karst Potential Map, the Site is located within a low Karst area. The Site characterization documentation (Points of Diversion, Karst Potential, Significant Watercourse Map, Wetlands Map, and FEMA Map) are attached to the report.

NTGE characterized the Site according to Table I, Closure Criteria for Soils Impacted by a Release, from the New Mexico Administrative Code (NMCA) Title 19, Chapter 15, Part 29, Section 12 (NMAC 19.15.29.12).

Site Characterization	Average Groundwater Depth (ft)
Low Karst	55+

*Table 3.1 Closure Criteria for Soils Impacted by a Release (NMAC 19.15.29.12 & 19.15.29.13)*

Regulatory Standard	Chloride	TPH (GRO+DRO+MRO)	TPH (GRO+MRO)	BTEX	Benzene
19.15.29.13 Restoration, Reclamation and Re-Vegetation (Impacted Area 0-4 Feet)	600 mg/kg	100 mg/kg	---	50 mg/kg	10 mg/kg
19.15.23.12 Remediation and Closure Criteria for Soils Impacted by a Release (>4 Feet)	10,000 mg/kg	2,500 mg/kg	1,000 mg/kg	50 mg/kg	10 mg/kg
Notes: --- = not defined					

### **4. Initial Soil Delineation Assessment Summary and Findings**

On August 30<sup>th</sup>, 2023, NTGE conducted site assessment activities to assess the extent of impacts at the Site. A total of three (3) vertical sample points (V-1 through V-3) and five (5) horizontal sample points (H-1 through H-5) were installed within and adjacent to the release area in order to characterize the impact. Soil samples were collected at 0.5 ft intervals to a maximum depth of 0.5 ft bgs, due to refusal, with a geotechnical hand auger. The samples were analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA method 8260B, total petroleum hydrocarbon (TPH) by method 8015M, and chloride by EPA 300.0/9056A by Envirotech Laboratories in Farmington, New Mexico. The analytical results indicated that TPH and chloride concentrations exceeded the NMOCD regulatory limits in the areas of V-1 through V-3 and for chlorides at H-1 to a depth of 0.5 ft bgs. Analytical results are included in Table 1, while sampling locations are shown in Figure 3.

Due to the exceedances of samples referenced above, further vertical delineation was required by Devon to assess impacted soils in the area. On October 13<sup>th</sup>, 2023, NTGE conducted further site assessment activities to assess the extent of impacts at the Site. A total of three (3) vertical test pit NTGE Project No.: 237780



Mr. Mike Bratcher  
November 2, 2023  
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delineation sample points (TP-1 through TP-3) were installed within the release area in order to further characterize the impact. Soil samples were collected at 1 ft intervals to a maximum depth of 12 ft bgs. The samples were analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA method 8260B, total petroleum hydrocarbon (TPH) by method 8015M, and chloride by EPA 300.0/9056A by Envirotech Laboratories in Farmington, New Mexico. Analytical results indicated that TPH and/or chloride concentrations exceeded the NMOCD Table 1 Closure Criteria in the areas of TP-2 and TP-3 at various depths. Analytical results are included in Table 1, while sampling locations are shown in Figure 3.

## **5. Proposed Work Plan**

After receiving and evaluating the soil boring data NTGE proposes to excavate and delineate the soils in the vicinity of TP-1 through TP-3, and H-1 to an appropriate depth to ensure that the impacted soil has been removed. A minimum of approximately 102.9 cubic yards of impacted material will be removed to remediate the impacted area. Confirmation samples will be taken with a five (5) point composite sample and represent an area no greater than 200 square feet to comply with NMAC 19.15.23.12 and 19.15.29.13. Discrete soil samples will be collected from the sidewalls and bottom of the excavation if any staining is observed. All confirmation samples will be taken to a certified laboratory and analyzed for BTEX by EPA Method 8021B, TPH by EPA Method 8015M Modified and chloride by EPA 300.0/9056A. If any of the confirmation samples collected exhibit concentrations above regulatory standards set by NMAC 19.15.23.12 and 19.15.23.13 the areas will be further excavated until concentrations are below Table 3.1 Closure Criteria.

If you have any questions regarding this letter, please contact us at (432)-701-2159.

Sincerely,  
**NTG Environmental**



Ethan Sessums  
Project Manager

### Attachments:

- Table
- Figures
- Initial C-141
- Site Characterization Documentation
- Photographic Log
- Laboratory Reports and Chain-of-Custody Documents

NTGE Project No.: 237780





## TABLE

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Table 1  
Summary of Soil Analytical Data - Initial Assessment Samples  
Gaucho Unit #017H  
Devon Energy Production Company  
Lea Co., NM

Sample ID	Sample Date	Depth (ft bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH					Chloride	
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	GRO (C6-C10)	DRO (C10-C28)	GRO + DRO (C6-C28)	MRO (C28-C35)	Total GRO/DRO/MRO (C6-C35)		
			Table I Closure Criteria for Soil 51 -100 feet Depth to Groundwater 19.15.29 NMAC											
			10 mg/kg	---	---	---	50 mg/kg	---	---	1,000 mg/kg	---	2,500 mg/kg		10,000 mg/kg
Vertical Delineation Samples														
V-1	08/30/23	0-6"	<0.0250	0.293	1.05	4.11	5.453	56.9	10,100	10,156.90	3,790	13,946.9	9,090	
V-2	08/30/23	0-6"	<0.0250	<0.0250	<0.0250	0.113	0.113	<20.0	2,460	2,460	1,240	3,700	8,400	
V-3	08/30/23	0-6"	<0.0250	0.0470	0.225	2.09	3.222	61.2	9,780	9,841.20	3,540	13,381.2	8,350	
Horizontal Delineation Samples														
H-1	08/30/23	0-6"	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<20.0	<25.0	<25.0	<50.0	<50.0	2,980	
H-2	08/30/23	0-6"	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<20.0	<25.0	<25.0	<50.0	<50.0	159	
H-3	08/30/23	0-6"	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<20.0	<25.0	<25.0	<50.0	<50.0	46.8	
H-4	08/30/23	0-6"	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<20.0	<25.0	<25.0	<50.0	<50.0	122	
H-5	08/30/23	0-6"	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<20.0	<25.0	<25.0	<50.0	<50.0	161	
Test Pit Delineation Samples														
TP-1	10/13/2023	1'	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<20.0	<25.0	<25.0	<50.0	<50.0	77.4	
	10/13/2023	2'	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<20.0	<25.0	<25.0	<50.0	<50.0	256	
	10/13/2023	3'	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<20.0	<25.0	<25.0	<50.0	<50.0	257	
	10/13/2023	4'	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<20.0	<25.0	<25.0	<50.0	<50.0	46	
TP-2	10/13/2023	1'	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<20.0	1,030	1,030	673	1,703	2,840	
	10/13/2023	2'	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<20.0	1,750	1,750	1,020	2,770	1,120	
	10/13/2023	3'	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<20.0	331	331	186	517	308	
	10/13/2023	4'	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<20.0	<25.0	<25.0	<50.0	<50.0	81.1	
	10/13/2023	5'	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<20.0	<25.0	<25.0	<50.0	<50.0	<20.0	
	10/13/2023	6'	<0.0250	<0.0250	<0.0250	<0.0250	0.112	<20.0	941	941	447	1388	669	
	10/13/2023	7'	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<20.0	<25.0	<25.0	<50.0	<50.0	577	
	10/13/2023	8'	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<20.0	42.8	42.8	<50.0	42.8	1,010	
	10/13/2023	9'	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<20.0	<25.0	<25.0	<50.0	<50.0	2,150	
	10/13/2023	11'	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<20.0	<25.0	<25.0	<50.0	<50.0	84.5	
10/13/2023	12'	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<20.0	<25.0	<25.0	<50.0	<50.0	169		
TP-3	10/13/2023	1'	<0.0250	<0.0250	<0.0250	<0.0250	0.109	<20.0	224	224	73.9	297.9	233	
	10/13/2023	2'	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<20.0	<25.0	<25.0	<50.0	<50.0	<20.0	
	10/13/2023	3'	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<20.0	<25.0	<25.0	<50.0	<50.0	<20.0	
	10/13/2023	4'	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<20.0	<25.0	<25.0	<50.0	<50.0	<20.0	

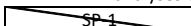
## Notes:

1. Values reported in mg/kg

2. &lt; = Value Less Than Reporting Limit (RL)

3. Bold indicates Analyte Detected

4. BTEX analyses by EPA Method SW 8021B

 Sample Point Excavated

5. TPH analyses by EPA Method SW 8015 Mod.

6. GRO/DRO/MRO - Gasoline/Diesel/Motor Oil

7. Yellow shaded cells indicate analytical samples that exceed the NMAC 19.15.29.12 Table I Closure Criteria for the site.

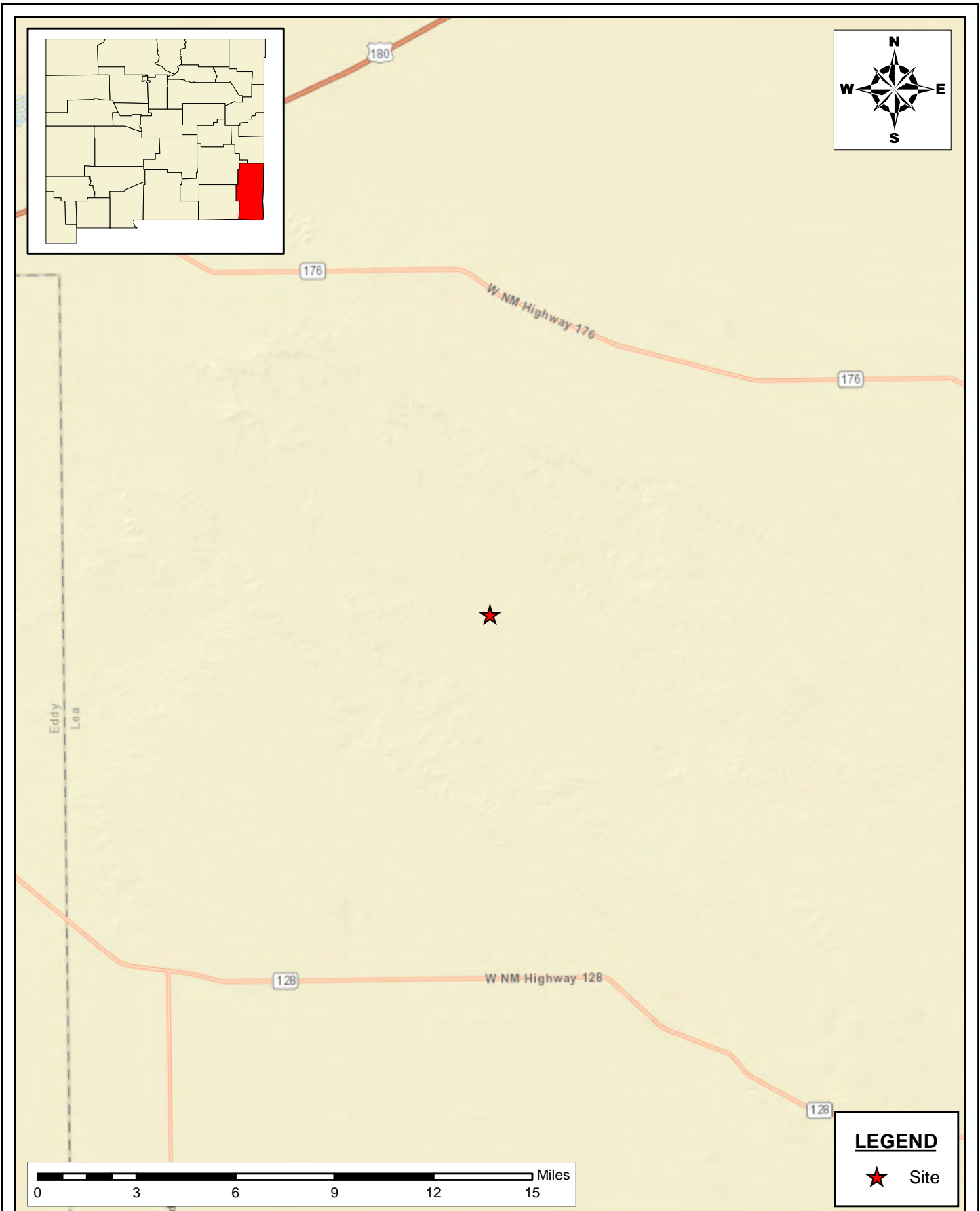
8. Peach shaded cells indicate analytical samples that exceed the NMAC 19.15.29.13 Table I Closure Criteria for the site (Surface to 4 Feet Below Grade).

9. --- Not Analyzed

## **FIGURES**

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**SITE LOCATION MAP  
SITE ASSESSMENT REPORT**

GAUCHO UNIT #017H  
DEVON ENERGY PRODUCTION COMPANY  
LEA COUNTY, NEW MEXICO  
32.370594, -103.501870

SCALE: As Shown

Date: 9/13/2023

PROJECT #: 237780



**New Tech Global Environmental, LLC**  
911 Regional Park Drive  
Houston, Texas 77060  
T - 281.872.9300  
F - 281.872.4521  
Web: www.ntgenviroinmental.com

**NOTES:**

1. Base Image: ESRI Maps & Data 2013
2. Map Projection: NAD 1983

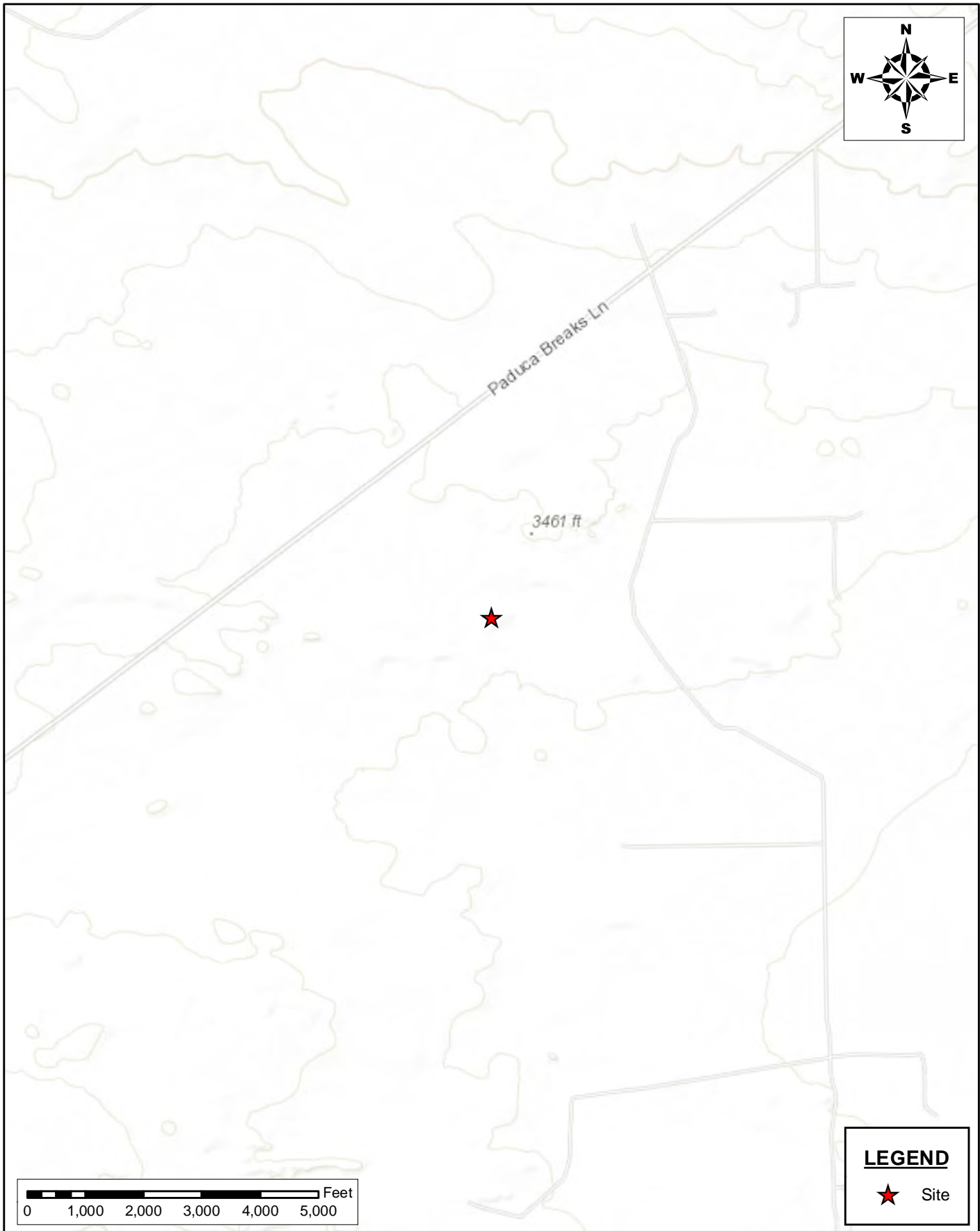
DRAWING NUMBER:

**FIGURE 1**

SHEET NUMBER:

**1 of 1**

Document Path: P:\2023 PROJECTS\DEVON\RSC\Gaucho Unit #017H\7-Figures\GIS\Figure\_2\_TM.mxd



**TOPOGRAPHIC MAP  
SITE ASSESSMENT REPORT**  
GAUCHO UNIT #017H  
DEVON ENERGY PRODUCTION COMPANY  
LEA COUNTY, NEW MEXICO  
32.370594, -103.501870

SCALE: As Shown    Date: 9/13/2023    PROJECT #: 237780



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**NOTES:**

- 1. Base Image: ESRI Maps & Data 2013
- 2. Map Projection: NAD 1983

DRAWING NUMBER:

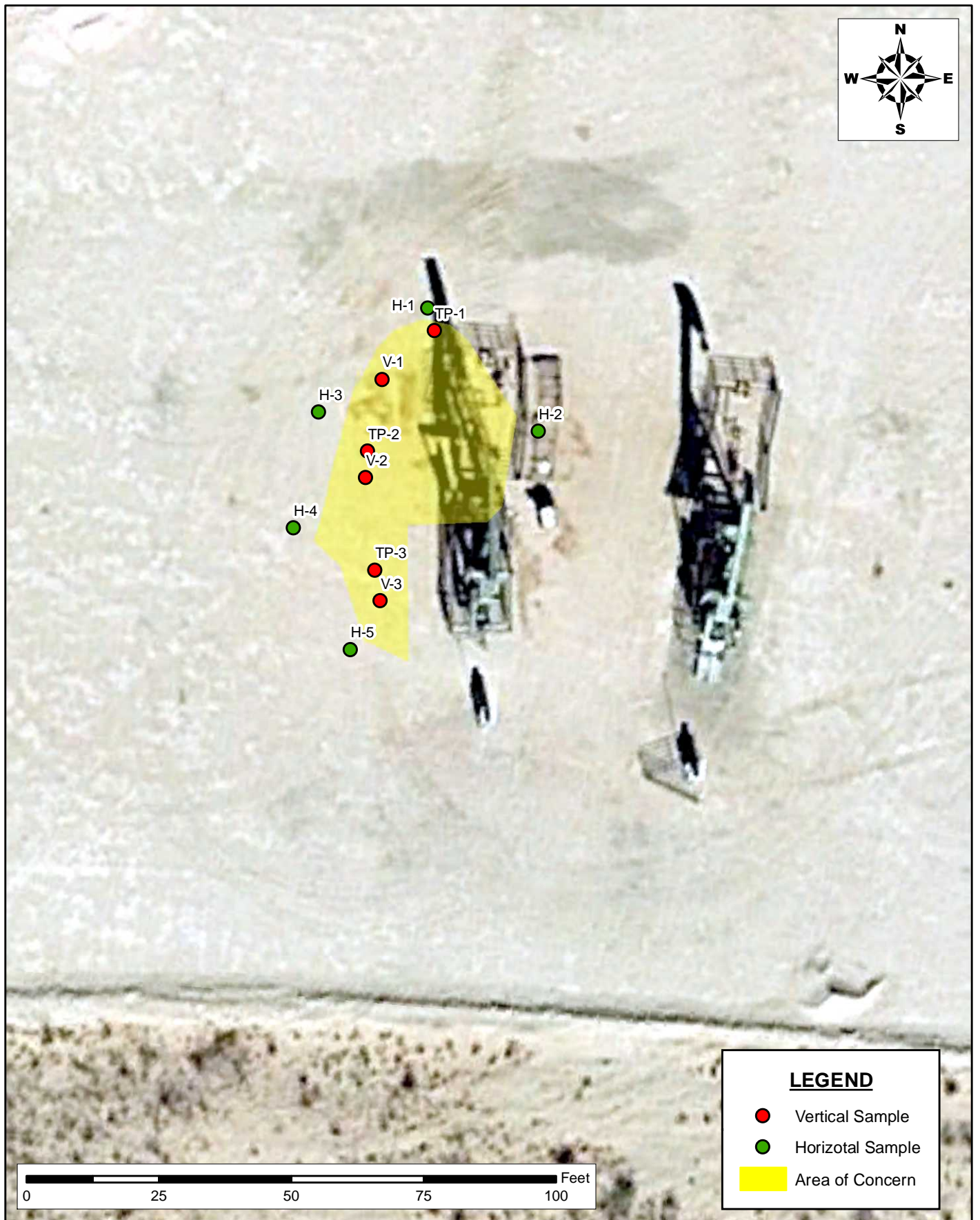
**FIGURE 2**

SHEET NUMBER:

**1 of 1**



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**INITIAL SAMPLING MAP  
SITE ASSESSMENT REPORT**

GAUCHO UNIT #017H  
DEVON ENERGY PRODUCTION COMPANY  
LEA COUNTY, NEW MEXICO  
32.370594, -103.501870



**New Tech Global Environmental, LLC**  
911 Regional Park Drive  
Houston, Texas 77060  
T - 281.872.9300  
F - 281.872.4521  
Web: www.ntgenvironmental.com

**NOTES:**

1. Base Image: ESRI Maps & Data 2017
2. Map Projection: NAD 1983

DRAWING NUMBER:

**FIGURE 3**

SHEET NUMBER:

**1 of 1**

SCALE: AS SHOWN    DATE: 11/06/2023    PROJECT #: 237780








## Proposed Excavation Map

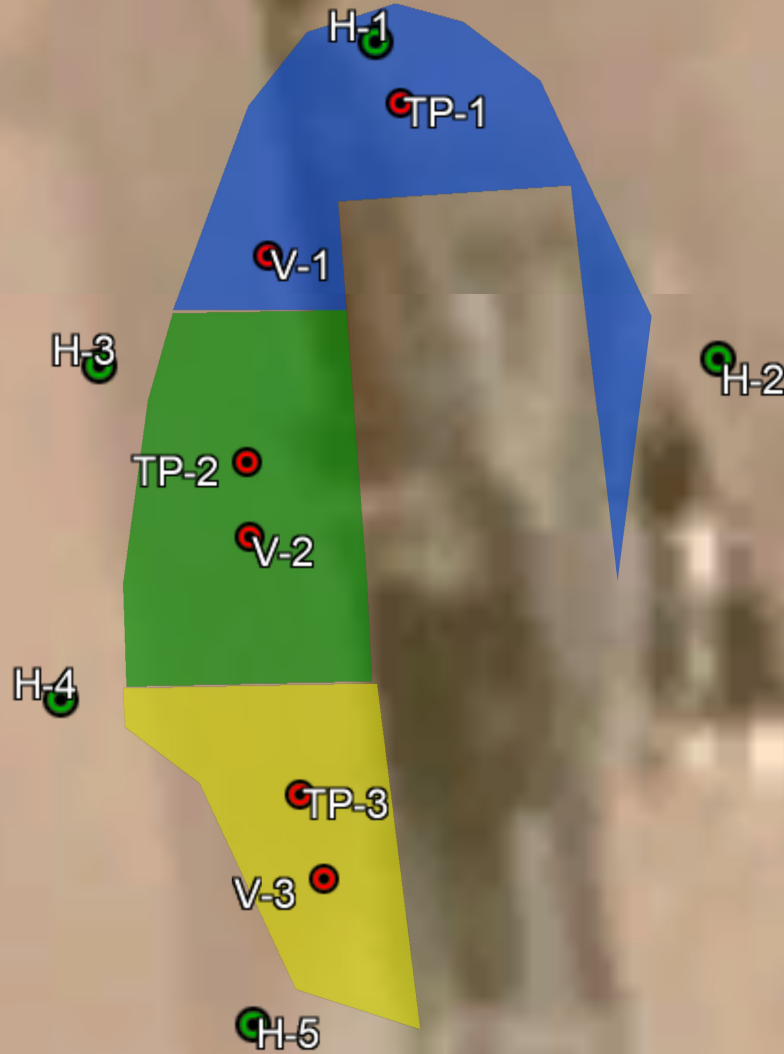
Gaucha Unit #017H  
Devon Energy Production Company  
32.370594, -103.501870  
Lea County, New Mexico

Area of Blue: 357 sqft x 1 ft ~ 13.2 CY  
Area of Green: 363 sqft x 4 ft ~ 53.8 CY  
Area of Yellow: 253 sqft x 2 ft ~ 18.7 CY  
Total Excavation w/ 20% Fluff ~ 102.9 CY

sqft - square feet  
ft - foot  
CY - cubic yards

### Legend

-  1 ft Excavation
-  2 ft Excavation
-  4 ft Excavation
-  Horizontal Delineation Sample
-  Vertical Delineation Sample



Google Earth



40 ft

**Initial C-141**

---

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	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	OGRID
Contact Name	Contact Telephone
Contact email	Incident # (assigned by OCD)
Contact mailing address	

Location of Release Source

Latitude \_\_\_\_\_ Longitude \_\_\_\_\_  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Site Type
Date Release Discovered	API# (if applicable)

Unit Letter	Section	Township	Range	County

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 type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	<input 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

State of New Mexico  
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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

**Initial Response**

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

<input type="checkbox"/> The source of the release has been stopped.	
<input type="checkbox"/> The impacted area has been secured to protect human health and the environment.	
<input type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
<input 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: _____	Title: _____
Signature: <u>Kendra Ruiz</u>	Date: _____
email: _____	Telephone: _____
<b><u>OCD Only</u></b>	
Received by: <u>Shelly Wells</u>	Date: <u>8/3/2023</u>

NAPP2320533965

<b>Spill Volume(Bbls) Calculator</b>	
<i>Inputs in blue, Outputs in red</i>	
<b>Contaminated Soil measurement</b>	
Area (square feet)	Depth(inches)
<u>2466</u>	<u>1.000</u>
Cubic Feet of Soil Impacted	<u>205.500</u>
Barrels of Soil Impacted	<u>36.63</u>
Soil Type	Clay/Sand
Barrels of Oil Assuming 100% Saturation	<u>5.49</u>
Saturation	Fluid present with shovel/backhoe
Estimated Barrels of Oil Released	5.49
<b>Free Standing Fluid Only</b>	
Area (square feet)	Depth(inches)
<u>0</u>	<u>0.000</u>
Standing fluid	<u>0.000</u>
<b>Total fluids spilled</b>	<b><u>5.495</u></b>

**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 247875

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 247875
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
scwells	None	8/3/2023



## **SITE CHARACTERIZATION DOCUMENTATION**

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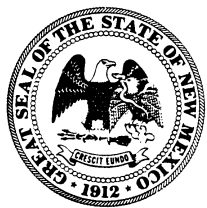
## NMOCD Closure Criteria

Gaucho Unit 17H

Site Information (19.15.29.11.A (2,3, & 4) NMAC)		Source/Notes
Depth to Groundwater ( ft bgs)	>51	Office of the State Engineer (OSE)
Horizontal Distance from All Water Sources Within 0.5 mile (ft)	N/A	Office of the State Engineer (OSE)
Horizontal Distance to Nearest Significant Watercourse (ft)	N/A	United States Geological Survey (USGS)

Closure Criteria (19.15.29.12.B(4) and Table 1 NMAC)						
Depth to Groundwater (ft)		Closure Criteria (mg/kg)				
		Chloride*	TPH	GRO + DRO	BTEX	Benzene
< 50		600	100	--	50	10
51 - 100	X	10,000	2,500	1,000	50	10
>100		20,000	2,500	1,000	50	10
Surface Water	Yes/No	in yes, then				
<300 ft from a continuously flowing watercourse or other significant watercourse?	No	600	100		50	10
<200 ft from a lakebed, sinkhole, or playa lake?	No					
Water Well or Water Source						
<500 ft from a spring or a private, domestic fresh waster well used by less that 5 households for domestic or livestock purposes?	No					
<1,000 ft from a fresh water well or spring?	No					
Sensitive and Other Area						
<300 ft 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 ft from a wetland?	No					
Within an area overlying a subsurface mine?	No					
Within and unstable area?	No					
Within a 100 yr floodplain?	No					

\* - numerical limit or background, whichever is greater



# WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

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

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.)		WELL TAG ID NO.		OSE FILE NO(S).		
	WELL OWNER NAME(S)				PHONE (OPTIONAL)		
	WELL OWNER MAILING ADDRESS				CITY	STATE	ZIP
	WELL LOCATION (FROM GPS)	DEGREES		MINUTES	SECONDS	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84	
		LATITUDE		N	W		
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE							

2. DRILLING & CASING INFORMATION	LICENSE NO.		NAME OF LICENSED DRILLER			NAME OF WELL DRILLING COMPANY		
	DRILLING STARTED		DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)		
	COMPLETED WELL IS:		ARTESIAN *add Centralizer info below	DRY HOLE	SHALLOW (UNCONFINED)	STATIC WATER LEVEL IN COMPLETED WELL (FT)	DATE STATIC MEASURED	
	DRILLING FLUID:		AIR	MUD	ADDITIVES – SPECIFY:			
	DRILLING METHOD:		ROTARY	HAMMER	CABLE TOOL	OTHER – SPECIFY:		
			CHECK HERE IF PITLESS ADAPTER IS INSTALLED					
	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						

3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE- RANGE BY INTERVAL  *(if using Centralizers for Artesian wells- indicate the spacing below)	AMOUNT (cubic feet)	METHOD OF PLACEMENT
	FROM	TO				

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 09/22/2022)

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

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	FROM	TO				
					<input type="checkbox"/> Y <input type="checkbox"/> N	
					<input type="checkbox"/> Y <input type="checkbox"/> N	
					<input type="checkbox"/> Y <input type="checkbox"/> N	
					<input type="checkbox"/> Y <input type="checkbox"/> N	
					<input type="checkbox"/> Y <input type="checkbox"/> N	
					<input type="checkbox"/> Y <input type="checkbox"/> N	
					<input type="checkbox"/> Y <input type="checkbox"/> N	
					<input type="checkbox"/> Y <input type="checkbox"/> N	
					<input type="checkbox"/> Y <input type="checkbox"/> N	
					<input type="checkbox"/> Y <input type="checkbox"/> N	
					<input type="checkbox"/> Y <input type="checkbox"/> N	
					<input type="checkbox"/> Y <input type="checkbox"/> N	
					<input type="checkbox"/> Y <input type="checkbox"/> N	
					<input type="checkbox"/> Y <input type="checkbox"/> N	
					<input type="checkbox"/> Y <input type="checkbox"/> N	
	METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:				TOTAL ESTIMATED WELL YIELD (gpm):	
	PUMP      AIR LIFT      BAILER      OTHER – SPECIFY:					
	5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.			
MISCELLANEOUS INFORMATION:						
PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:						
6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:					
	SIGNATURE OF DRILLER / PRINT SIGNEE NAME					DATE

FOR OSE INTERNAL USE

WR-20 WELL RECORD &amp; LOG (Version 09/22/2022)

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



# WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

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

<b>1. GENERAL AND WELL LOCATION</b>	OSE POD NO. (WELL NO.) CP 01990		WELL TAG ID NO.		OSE FILE NO(S). CP-1990-POD1		
	WELL OWNER NAME(S) Devon Energy Resources				PHONE (OPTIONAL)		
	WELL OWNER MAILING ADDRESS 205 E. Bender Road #150				CITY Hobbs	STATE NM	ZIP 88240
	WELL LOCATION (FROM GPS)	DEGREES 32		MINUTES 22	SECONDS 13.85	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84	
		LATITUDE		N	W		
LONGITUDE		-103		30	10.63		
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE							

<b>2. DRILLING &amp; CASING INFORMATION</b>	LICENSE NO. 1833		NAME OF LICENSED DRILLER Jason Maley		NAME OF WELL DRILLING COMPANY Vision Resources			
	DRILLING STARTED 3-25-24		DRILLING ENDED 3-25-24		DEPTH OF COMPLETED WELL (FT) 60'		BORE HOLE DEPTH (FT) 60'	
					DEPTH WATER FIRST ENCOUNTERED (FT) N/A			
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN *add Centralizer info below <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) 0'		DATE STATIC MEASURED 3-28-24
	DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY:						CHECK HERE IF PITLESS ADAPTER IS INSTALLED <input type="checkbox"/>	
	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	50	6"	PVC 2" SCH40	Thread	2"	SCH40	N/A
	50	60	6"	PVC 2" SCH40	Thread	2"	SCH40	.02

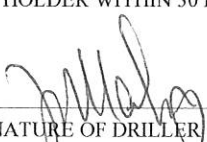
<b>3. ANNULAR MATERIAL</b>	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE- RANGE BY INTERVAL  *(if using Centralizers for Artesian wells- indicate the spacing below)	AMOUNT (cubic feet)	METHOD OF PLACEMENT
	FROM	TO				
				None pulled and plugged		

FOR OSE INTERNAL USE

WR-20 WELL RECORD &amp; LOG (Version 09/22/2022)

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



4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)	
	FROM	TO					
	0	10	10'	Brown sand with small rock	Y    ✓ N		
	10	60	50'	Tan fine sand with small amount of small rock	Y    ✓ N		
					Y    N		
					Y    N		
					Y    N		
					Y    N		
					Y    N		
					Y    N		
					Y    N		
					Y    N		
					Y    N		
					Y    N		
					Y    N		
					Y    N		
					Y    N		
	METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER – SPECIFY: Dry hole				TOTAL ESTIMATED WELL YIELD (gpm): 0		
	5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.				
		MISCELLANEOUS INFORMATION:					
PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Jason Maley							
6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING: <div style="display: flex; justify-content: space-between; align-items: flex-end;"><div style="text-align: center;"> SIGNATURE OF DRILLER / PRINT SIGNEE NAME</div><div style="text-align: center;">Jason Maley</div><div style="text-align: center;"><u>4/11/24</u> DATE</div></div>						

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 09/22/2022)	
FILE NO.	POD NO.	TRN NO.	
LOCATION		WELL TAG ID NO.	PAGE 2 OF 2





# PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

## I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: CP-1990

Well owner: Devon Energy Resources

Phone No.: \_\_\_\_\_

Mailing address: 205 E Bender Road#150

City: Hobbs

State: NM

Zip code: 88240

## II. WELL PLUGGING INFORMATION:

- 1) Name of well drilling company that plugged well: Vision Resources
- 2) New Mexico Well Driller License No.: 1833 Expiration Date: 10-7-25
- 3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s):  
Jason Maley
- 4) Date well plugging began: 3-28-24 Date well plugging concluded: 3-28-24
- 5) GPS Well Location: Latitude: 32 deg, 22 min, 13.85 sec  
Longitude: -103 deg, 30 min, 10.63 sec, WGS 84
- 6) Depth of well confirmed at initiation of plugging as: 55 ft below ground level (bgl),  
by the following manner: Tape
- 7) Static water level measured at initiation of plugging: Dry ft bgl
- 8) Date well plugging plan of operations was approved by the State Engineer: 3-7-24
- 9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

- For each interval plugged, describe within the following columns:**

**III. SIGNATURE:**

Signature of W

4/11/24  
Date

# OSE POD Locations Map




8/11/2023, 10:14:14 AM

GIS WATERS PODs

 Pending


 OSE District Boundary

Water Right Regulations

 Closure Area

 New Mexico State Trust Lands

 Surface Estate

 Both Estates

 SiteBoundaries

1:18,056

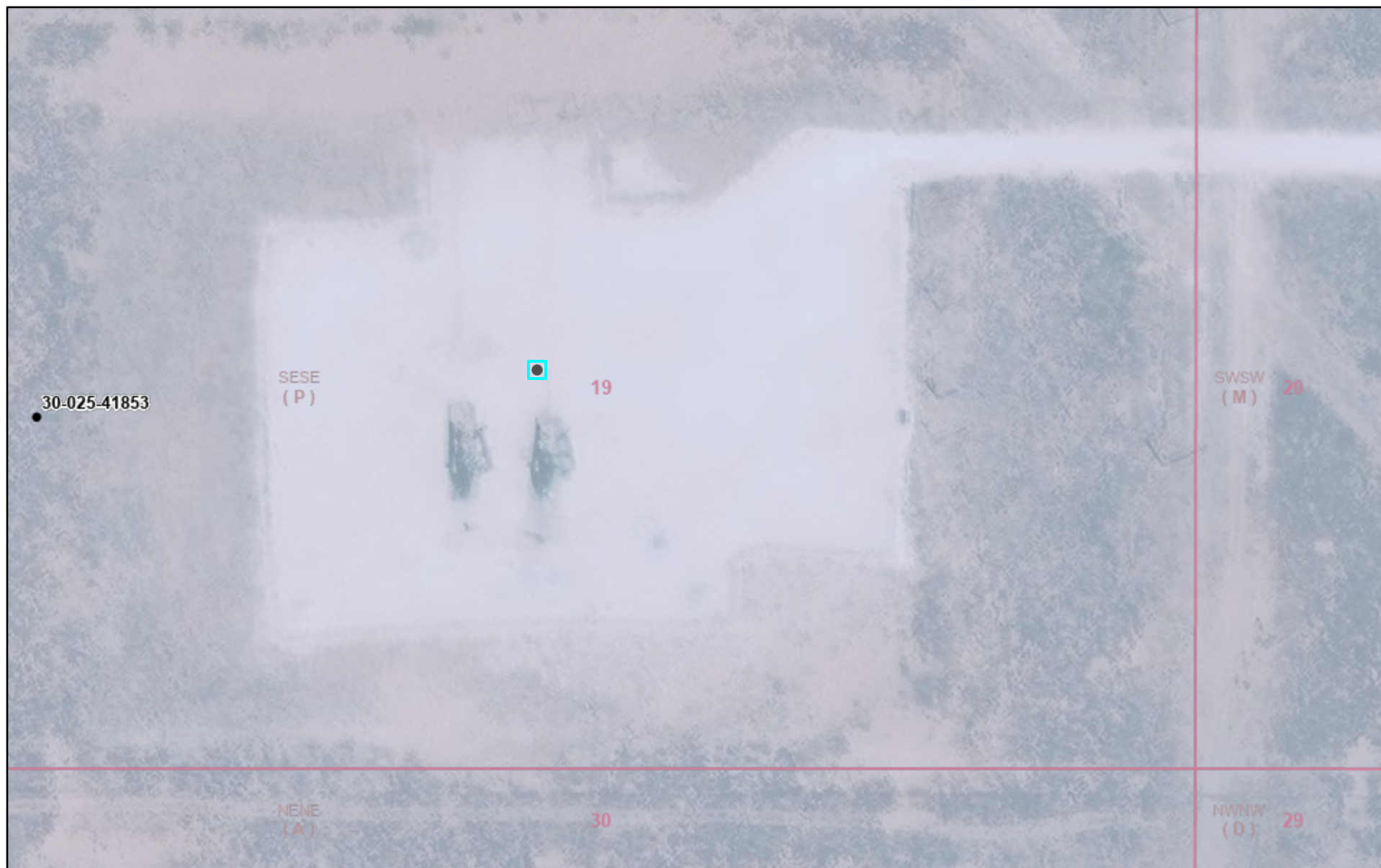
0 0.13 0.25 0.5 mi

0 0.2 0.4 0.8 km

Esri, HERE, iPC, U.S. Department of Energy Office of Legacy Management, Esri, HERE, Garmin, iPC, Maxar



# Karst Potential



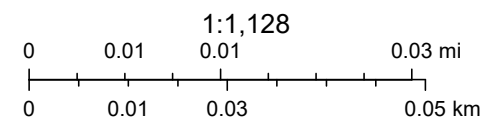
11/7/2023, 3:53:29 PM

Wells - Large Scale Karst Occurrence Potential

• Oil, Active      Low

PLSS Second Division

PLSS First Division



BLM, OCD, New Mexico Tech, Maxar, Microsoft, Oil Conservation Division of the New Mexico Energy, Minerals and Natural Resources Department., OCD,




New Mexico Oil Conservation Division

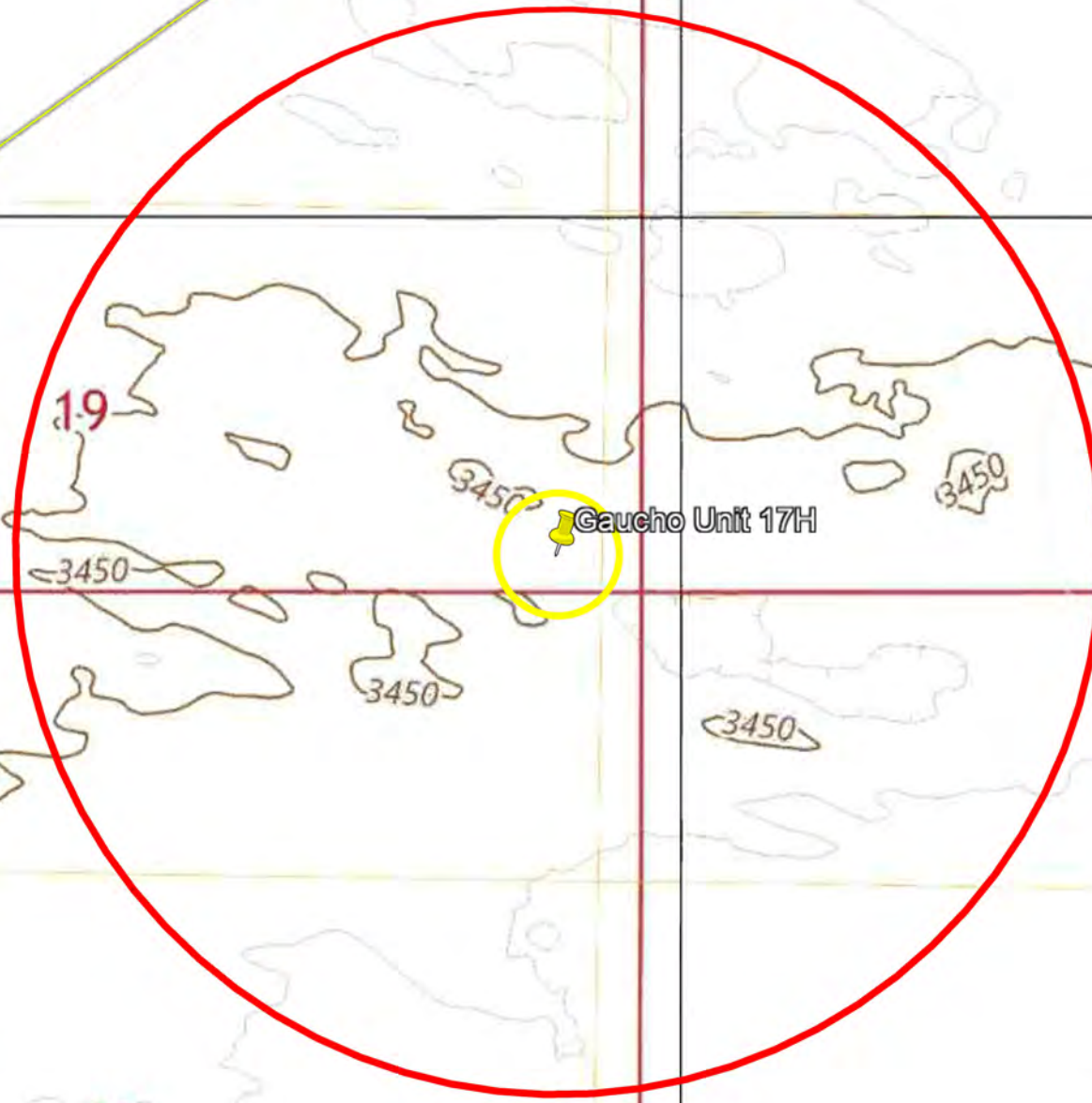
NM OCD Oil and Gas Map. <http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=4d017f2306164de29fd2fb9f8f35ca75>: New Mexico Oil Conservation Division

# Gaucha Unit 17H

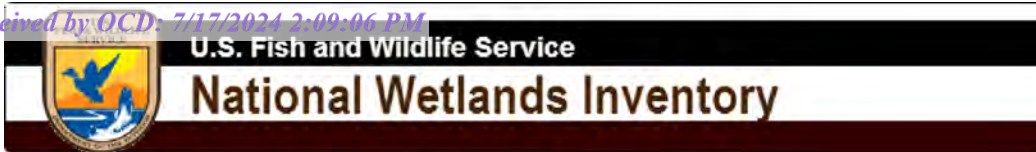
Significant Watercourse

## Legend

-  0.5 Mile Radius
-  300 Foot Radius
-  Gaucha Unit 17H







## Gaucho Unit 17H



August 11, 2023

**Wetlands**

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

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

- Lake
- Other
- Riverine

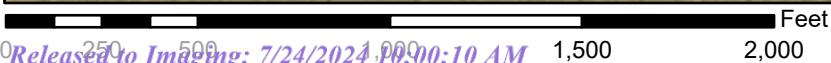
This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.



# National Flood Hazard Layer FIRMMette



103°30'26"W 32°22'27"N



1:6,000

103°29'48"W 32°21'57"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
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
MAP PANELS		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 8/11/2023 at 11:18 AM 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.



## National Water Information System: Mapper



### Site Information

## **PHOTOGRAPHIC LOG**

---



## PHOTOGRAPHIC LOG

Devon Energy Production Company

### Photograph No. 1

**Facility:** Gaucho Unit #017H

**County:** Lea County, New Mexico

**Description:**  
View of the release.



### Photograph No. 2

**Facility:** Gaucho Unit #017H

**County:** Lea County, New Mexico

**Description:**  
View of the release.



### Photograph No. 3

**Facility:** Gaucho Unit #017H

**County:** Lea County, New Mexico

**Description:**  
View of the release.



## **LABORATORY REPORTS AND CHAIN-OF-CUSTODY DOCUMENTS**

Report to:  
Ethan Sessums



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

NTG-New Tech Global Environmental

Project Name: Gaucho Unit #017H

Work Order: E308243

Job Number: 21106-0001

Received: 9/1/2023

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
9/7/23

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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



Date Reported: 9/7/23

Ethan Sessums  
911 Regional Park Dr.  
Houston, TX 77060



Project Name: Gaucho Unit #017H  
Workorder: E308243  
Date Received: 9/1/2023 5:45:00AM

Ethan Sessums,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/1/2023 5:45:00AM, under the Project Name: Gaucho Unit #017H.

The analytical test results summarized in this report with the Project Name: Gaucho Unit #017H 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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[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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**Lynn Jarboe**  
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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

NTG-New Tech Global Environmental 911 Regional Park Dr. Houston TX, 77060	Project Name: Gaucho Unit #017H Project Number: 21106-0001 Project Manager: Ethan Sessums	Reported: 09/07/23 13:56
---	---	-----------------------------

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
V-1 0-6"	E308243-01A	Soil	08/30/23	09/01/23	Glass Jar, 2 oz.
V-2 0-6"	E308243-02A	Soil	08/30/23	09/01/23	Glass Jar, 2 oz.
V-3 0-6"	E308243-03A	Soil	08/30/23	09/01/23	Glass Jar, 2 oz.
H-1 0-6"	E308243-04A	Soil	08/30/23	09/01/23	Glass Jar, 2 oz.
H-2 0-6"	E308243-05A	Soil	08/30/23	09/01/23	Glass Jar, 2 oz.
H-3 0-6"	E308243-06A	Soil	08/30/23	09/01/23	Glass Jar, 2 oz.
H-4 0-6"	E308243-07A	Soil	08/30/23	09/01/23	Glass Jar, 2 oz.
H-5 0-6"	E308243-08A	Soil	08/30/23	09/01/23	Glass Jar, 2 oz.



Sample Data

NTG-New Tech Global Environmental 911 Regional Park Dr. Houston TX, 77060	Project Name: Gaucho Unit #017H Project Number: 21106-0001 Project Manager: Ethan Sessums	Reported: 9/7/2023 1:56:49PM
---	---	---------------------------------

V-1 0-6"

E308243-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2335105	
Benzene	ND	0.0250	1	09/01/23	09/05/23	
Ethylbenzene	1.05	0.0250	1	09/01/23	09/05/23	
Toluene	0.293	0.0250	1	09/01/23	09/05/23	
o-Xylene	1.48	0.0250	1	09/01/23	09/05/23	
p,m-Xylene	2.62	0.0500	1	09/01/23	09/05/23	
Total Xylenes	4.11	0.0250	1	09/01/23	09/05/23	
Surrogate: Bromofluorobenzene	124 %	70-130		09/01/23	09/05/23	
Surrogate: 1,2-Dichloroethane-d4	91.9 %	70-130		09/01/23	09/05/23	
Surrogate: Toluene-d8	114 %	70-130		09/01/23	09/05/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2335105	
Gasoline Range Organics (C6-C10)	56.9	20.0	1	09/01/23	09/05/23	
Surrogate: Bromofluorobenzene	124 %	70-130		09/01/23	09/05/23	
Surrogate: 1,2-Dichloroethane-d4	91.9 %	70-130		09/01/23	09/05/23	
Surrogate: Toluene-d8	114 %	70-130		09/01/23	09/05/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2336035	
Diesel Range Organics (C10-C28)	10100	50.0	2	09/06/23	09/07/23	
Oil Range Organics (C28-C36)	3790	100	2	09/06/23	09/07/23	
Surrogate: n-Nonane	126 %	50-200		09/06/23	09/07/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2336050	
Chloride	9090	200	10	09/06/23	09/06/23	



## Sample Data

NTG-New Tech Global Environmental  
911 Regional Park Dr.  
Houston TX, 77060

Project Name: Gaucho Unit #017H  
Project Number: 21106-0001  
Project Manager: Ethan Sessums

**Reported:**  
9/7/2023 1:56:49PM

V-2 0-6"

E308243-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2335105
Benzene	ND	0.0250	1	09/01/23	09/05/23	
Ethylbenzene	ND	0.0250	1	09/01/23	09/05/23	
Toluene	ND	0.0250	1	09/01/23	09/05/23	
o-Xylene	<b>0.0450</b>	0.0250	1	09/01/23	09/05/23	
p,m-Xylene	<b>0.0675</b>	0.0500	1	09/01/23	09/05/23	
Total Xylenes	<b>0.113</b>	0.0250	1	09/01/23	09/05/23	
Surrogate: Bromofluorobenzene		112 %	70-130	09/01/23	09/05/23	
Surrogate: 1,2-Dichloroethane-d4		95.2 %	70-130	09/01/23	09/05/23	
Surrogate: Toluene-d8		114 %	70-130	09/01/23	09/05/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2335105
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/01/23	09/05/23	
Surrogate: Bromofluorobenzene		112 %	70-130	09/01/23	09/05/23	
Surrogate: 1,2-Dichloroethane-d4		95.2 %	70-130	09/01/23	09/05/23	
Surrogate: Toluene-d8		114 %	70-130	09/01/23	09/05/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2336035
Diesel Range Organics (C10-C28)	<b>2460</b>	50.0	2	09/06/23	09/07/23	
Oil Range Organics (C28-C36)	<b>1240</b>	100	2	09/06/23	09/07/23	
Surrogate: n-Nonane		98.1 %	50-200	09/06/23	09/07/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2336050
Chloride	<b>8400</b>	200	10	09/06/23	09/06/23	



## Sample Data

NTG-New Tech Global Environmental  
911 Regional Park Dr.  
Houston TX, 77060

Project Name: Gaucho Unit #017H  
Project Number: 21106-0001  
Project Manager: Ethan Sessums

**Reported:**  
9/7/2023 1:56:49PM

V-3 0-6"

E308243-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2335105
Benzene	ND	0.0250	1	09/01/23	09/05/23	
Ethylbenzene	0.225	0.0250	1	09/01/23	09/05/23	
Toluene	0.0470	0.0250	1	09/01/23	09/05/23	
o-Xylene	0.845	0.0250	1	09/01/23	09/05/23	
p,m-Xylene	1.25	0.0500	1	09/01/23	09/05/23	
Total Xylenes	2.09	0.0250	1	09/01/23	09/05/23	
Surrogate: Bromofluorobenzene		113 %	70-130	09/01/23	09/05/23	
Surrogate: 1,2-Dichloroethane-d4		94.5 %	70-130	09/01/23	09/05/23	
Surrogate: Toluene-d8		114 %	70-130	09/01/23	09/05/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2335105
Gasoline Range Organics (C6-C10)	61.2	20.0	1	09/01/23	09/05/23	
Surrogate: Bromofluorobenzene		113 %	70-130	09/01/23	09/05/23	
Surrogate: 1,2-Dichloroethane-d4		94.5 %	70-130	09/01/23	09/05/23	
Surrogate: Toluene-d8		114 %	70-130	09/01/23	09/05/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2336035
Diesel Range Organics (C10-C28)	9780	50.0	2	09/06/23	09/07/23	
Oil Range Organics (C28-C36)	3540	100	2	09/06/23	09/07/23	
Surrogate: n-Nonane		103 %	50-200	09/06/23	09/07/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2336050
Chloride	8350	200	10	09/06/23	09/06/23	





## Sample Data

NTG-New Tech Global Environmental  
911 Regional Park Dr.  
Houston TX, 77060

Project Name: Gaucho Unit #017H  
Project Number: 21106-0001  
Project Manager: Ethan Sessums

**Reported:**  
9/7/2023 1:56:49PM

H-1 0-6"

E308243-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2335105
Benzene	ND	0.0250	1	09/01/23	09/05/23	
Ethylbenzene	ND	0.0250	1	09/01/23	09/05/23	
Toluene	ND	0.0250	1	09/01/23	09/05/23	
o-Xylene	ND	0.0250	1	09/01/23	09/05/23	
p,m-Xylene	ND	0.0500	1	09/01/23	09/05/23	
Total Xylenes	ND	0.0250	1	09/01/23	09/05/23	
Surrogate: Bromofluorobenzene	95.2 %	70-130		09/01/23	09/05/23	
Surrogate: 1,2-Dichloroethane-d4	95.3 %	70-130		09/01/23	09/05/23	
Surrogate: Toluene-d8	112 %	70-130		09/01/23	09/05/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2335105
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/01/23	09/05/23	
Surrogate: Bromofluorobenzene	95.2 %	70-130		09/01/23	09/05/23	
Surrogate: 1,2-Dichloroethane-d4	95.3 %	70-130		09/01/23	09/05/23	
Surrogate: Toluene-d8	112 %	70-130		09/01/23	09/05/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2336035
Diesel Range Organics (C10-C28)	ND	25.0	1	09/06/23	09/07/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/06/23	09/07/23	
Surrogate: n-Nonane	99.3 %	50-200		09/06/23	09/07/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2336050
Chloride	2980	40.0	2	09/06/23	09/06/23	



## Sample Data

NTG-New Tech Global Environmental  
911 Regional Park Dr.  
Houston TX, 77060

Project Name: Gaucho Unit #017H  
Project Number: 21106-0001  
Project Manager: Ethan Sessums

**Reported:**  
9/7/2023 1:56:49PM

H-2 0-6"

E308243-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2335105
Benzene	ND	0.0250	1	09/01/23	09/05/23	
Ethylbenzene	ND	0.0250	1	09/01/23	09/05/23	
Toluene	ND	0.0250	1	09/01/23	09/05/23	
o-Xylene	ND	0.0250	1	09/01/23	09/05/23	
p,m-Xylene	ND	0.0500	1	09/01/23	09/05/23	
Total Xylenes	ND	0.0250	1	09/01/23	09/05/23	
Surrogate: Bromofluorobenzene		118 %	70-130	09/01/23	09/05/23	
Surrogate: 1,2-Dichloroethane-d4		95.3 %	70-130	09/01/23	09/05/23	
Surrogate: Toluene-d8		110 %	70-130	09/01/23	09/05/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2335105
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/01/23	09/05/23	
Surrogate: Bromofluorobenzene		118 %	70-130	09/01/23	09/05/23	
Surrogate: 1,2-Dichloroethane-d4		95.3 %	70-130	09/01/23	09/05/23	
Surrogate: Toluene-d8		110 %	70-130	09/01/23	09/05/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2336035
Diesel Range Organics (C10-C28)	ND	25.0	1	09/06/23	09/07/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/06/23	09/07/23	
Surrogate: n-Nonane		103 %	50-200	09/06/23	09/07/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2336050
Chloride	159	20.0	1	09/06/23	09/06/23	



Sample Data

NTG-New Tech Global Environmental 911 Regional Park Dr. Houston TX, 77060	Project Name: Gaucho Unit #017H Project Number: 21106-0001 Project Manager: Ethan Sessums	Reported: 9/7/2023 1:56:49PM
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H-3 0-6"

E308243-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2335105
Benzene	ND	0.0250	1	09/01/23	09/05/23	
Ethylbenzene	ND	0.0250	1	09/01/23	09/05/23	
Toluene	ND	0.0250	1	09/01/23	09/05/23	
o-Xylene	ND	0.0250	1	09/01/23	09/05/23	
p,m-Xylene	ND	0.0500	1	09/01/23	09/05/23	
Total Xylenes	ND	0.0250	1	09/01/23	09/05/23	
Surrogate: Bromofluorobenzene		123 %	70-130	09/01/23	09/05/23	
Surrogate: 1,2-Dichloroethane-d4		94.8 %	70-130	09/01/23	09/05/23	
Surrogate: Toluene-d8		112 %	70-130	09/01/23	09/05/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2335105
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/01/23	09/05/23	
Surrogate: Bromofluorobenzene		123 %	70-130	09/01/23	09/05/23	
Surrogate: 1,2-Dichloroethane-d4		94.8 %	70-130	09/01/23	09/05/23	
Surrogate: Toluene-d8		112 %	70-130	09/01/23	09/05/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2336035
Diesel Range Organics (C10-C28)	ND	25.0	1	09/06/23	09/07/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/06/23	09/07/23	
Surrogate: n-Nonane		100 %	50-200	09/06/23	09/07/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2336050
Chloride	46.8	20.0	1	09/06/23	09/06/23	



## Sample Data

NTG-New Tech Global Environmental  
911 Regional Park Dr.  
Houston TX, 77060

Project Name: Gaucho Unit #017H  
Project Number: 21106-0001  
Project Manager: Ethan Sessums

**Reported:**  
9/7/2023 1:56:49PM

**H-4 0-6"****E308243-07**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2335105
Benzene	ND	0.0250	1	09/01/23	09/05/23	
Ethylbenzene	ND	0.0250	1	09/01/23	09/05/23	
Toluene	ND	0.0250	1	09/01/23	09/05/23	
o-Xylene	ND	0.0250	1	09/01/23	09/05/23	
p,m-Xylene	ND	0.0500	1	09/01/23	09/05/23	
Total Xylenes	ND	0.0250	1	09/01/23	09/05/23	
Surrogate: Bromofluorobenzene		119 %	70-130	09/01/23	09/05/23	
Surrogate: 1,2-Dichloroethane-d4		92.9 %	70-130	09/01/23	09/05/23	
Surrogate: Toluene-d8		111 %	70-130	09/01/23	09/05/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2335105
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/01/23	09/05/23	
Surrogate: Bromofluorobenzene		119 %	70-130	09/01/23	09/05/23	
Surrogate: 1,2-Dichloroethane-d4		92.9 %	70-130	09/01/23	09/05/23	
Surrogate: Toluene-d8		111 %	70-130	09/01/23	09/05/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2336035
Diesel Range Organics (C10-C28)	ND	25.0	1	09/06/23	09/07/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/06/23	09/07/23	
Surrogate: n-Nonane		101 %	50-200	09/06/23	09/07/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2336050
Chloride	122	20.0	1	09/06/23	09/06/23	



Sample Data

NTG-New Tech Global Environmental 911 Regional Park Dr. Houston TX, 77060	Project Name: Gaucho Unit #017H Project Number: 21106-0001 Project Manager: Ethan Sessums	Reported: 9/7/2023 1:56:49PM
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H-5 0-6"

E308243-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2335105
Benzene	ND	0.0250	1	09/01/23	09/05/23	
Ethylbenzene	ND	0.0250	1	09/01/23	09/05/23	
Toluene	ND	0.0250	1	09/01/23	09/05/23	
o-Xylene	ND	0.0250	1	09/01/23	09/05/23	
p,m-Xylene	ND	0.0500	1	09/01/23	09/05/23	
Total Xylenes	ND	0.0250	1	09/01/23	09/05/23	
Surrogate: Bromofluorobenzene		120 %	70-130	09/01/23	09/05/23	
Surrogate: 1,2-Dichloroethane-d4		97.7 %	70-130	09/01/23	09/05/23	
Surrogate: Toluene-d8		112 %	70-130	09/01/23	09/05/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2335105
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/01/23	09/05/23	
Surrogate: Bromofluorobenzene		120 %	70-130	09/01/23	09/05/23	
Surrogate: 1,2-Dichloroethane-d4		97.7 %	70-130	09/01/23	09/05/23	
Surrogate: Toluene-d8		112 %	70-130	09/01/23	09/05/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2336035
Diesel Range Organics (C10-C28)	ND	25.0	1	09/06/23	09/07/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/06/23	09/07/23	
Surrogate: n-Nonane		99.6 %	50-200	09/06/23	09/07/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2336050
Chloride	161	20.0	1	09/06/23	09/06/23	



QC Summary Data

NTG-New Tech Global Environmental	Project Name:	Gaicho Unit #017H	Reported:
911 Regional Park Dr.	Project Number:	21106-0001	
Houston TX, 77060	Project Manager:	Ethan Sessums	9/7/2023 1:56:49PM

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 (2335105-BLK1) Prepared: 09/01/23 Analyzed: 09/05/23

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	0.601		0.500		120	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.482		0.500		96.4	70-130			
Surrogate: Toluene-d8	0.564		0.500		113	70-130			

LCS (2335105-BS1) Prepared: 09/01/23 Analyzed: 09/05/23

Benzene	2.55	0.0250	2.50		102	70-130			
Ethylbenzene	2.59	0.0250	2.50		104	70-130			
Toluene	2.64	0.0250	2.50		106	70-130			
o-Xylene	2.78	0.0250	2.50		111	70-130			
p,m-Xylene	5.53	0.0500	5.00		111	70-130			
Total Xylenes	8.31	0.0250	7.50		111	70-130			
Surrogate: Bromofluorobenzene	0.604		0.500		121	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.482		0.500		96.4	70-130			
Surrogate: Toluene-d8	0.549		0.500		110	70-130			

Matrix Spike (2335105-MS1) Source: E308243-07 Prepared: 09/01/23 Analyzed: 09/05/23

Benzene	2.35	0.0250	2.50	ND	94.1	48-131			
Ethylbenzene	2.42	0.0250	2.50	ND	96.6	45-135			
Toluene	2.44	0.0250	2.50	ND	97.5	48-130			
o-Xylene	2.56	0.0250	2.50	ND	102	43-135			
p,m-Xylene	5.12	0.0500	5.00	ND	102	43-135			
Total Xylenes	7.68	0.0250	7.50	ND	102	43-135			
Surrogate: Bromofluorobenzene	0.603		0.500		121	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.489		0.500		97.7	70-130			
Surrogate: Toluene-d8	0.557		0.500		111	70-130			

Matrix Spike Dup (2335105-MSD1) Source: E308243-07 Prepared: 09/01/23 Analyzed: 09/05/23

Benzene	2.52	0.0250	2.50	ND	101	48-131	7.06	23	
Ethylbenzene	2.60	0.0250	2.50	ND	104	45-135	7.55	27	
Toluene	2.64	0.0250	2.50	ND	106	48-130	7.92	24	
o-Xylene	2.80	0.0250	2.50	ND	112	43-135	9.09	27	
p,m-Xylene	5.63	0.0500	5.00	ND	113	43-135	9.52	27	
Total Xylenes	8.43	0.0250	7.50	ND	112	43-135	9.38	27	
Surrogate: Bromofluorobenzene	0.611		0.500		122	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.494		0.500		98.8	70-130			
Surrogate: Toluene-d8	0.553		0.500		111	70-130			





QC Summary Data

NTG-New Tech Global Environmental	Project Name:	GaUCHO Unit #017H	Reported:
911 Regional Park Dr.	Project Number:	21106-0001	
Houston TX, 77060	Project Manager:	Ethan Sessums	9/7/2023 1:56:49PM

Nonhalogenated Organics by EPA 8015D - GRO

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 (2335105-BLK1)

Prepared: 09/01/23 Analyzed: 09/05/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.601		0.500		120	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.482		0.500		96.4	70-130			
Surrogate: Toluene-d8	0.564		0.500		113	70-130			

LCS (2335105-BS2)

Prepared: 09/01/23 Analyzed: 09/05/23

Gasoline Range Organics (C6-C10)	55.5	20.0	50.0		111	70-130			
Surrogate: Bromofluorobenzene	0.608		0.500		122	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.485		0.500		96.9	70-130			
Surrogate: Toluene-d8	0.567		0.500		113	70-130			

Matrix Spike (2335105-MS2)

Source: E308243-07 Prepared: 09/01/23 Analyzed: 09/05/23

Gasoline Range Organics (C6-C10)	57.4	20.0	50.0	ND	115	70-130			
Surrogate: Bromofluorobenzene	0.618		0.500		124	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.485		0.500		97.0	70-130			
Surrogate: Toluene-d8	0.564		0.500		113	70-130			

Matrix Spike Dup (2335105-MSD2)

Source: E308243-07 Prepared: 09/01/23 Analyzed: 09/05/23

Gasoline Range Organics (C6-C10)	56.0	20.0	50.0	ND	112	70-130	2.35	20	
Surrogate: Bromofluorobenzene	0.603		0.500		121	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.475		0.500		94.9	70-130			
Surrogate: Toluene-d8	0.563		0.500		113	70-130			

QC Summary Data

NTG-New Tech Global Environmental 911 Regional Park Dr. Houston TX, 77060	Project Name: Gaucho Unit #017H Project Number: 21106-0001 Project Manager: Ethan Sessums	Reported:  9/7/2023 1:56:49PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2336035-BLK1) Prepared: 09/06/23 Analyzed: 09/06/23

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	52.5		50.0		105	50-200			

LCS (2336035-BS1) Prepared: 09/06/23 Analyzed: 09/06/23

Diesel Range Organics (C10-C28)	251	25.0	250		100	38-132			
Surrogate: n-Nonane	51.0		50.0		102	50-200			

Matrix Spike (2336035-MS1) Source: E309029-21 Prepared: 09/06/23 Analyzed: 09/06/23

Diesel Range Organics (C10-C28)	286	25.0	250	37.3	99.7	38-132			
Surrogate: n-Nonane	50.4		50.0		101	50-200			

Matrix Spike Dup (2336035-MSD1) Source: E309029-21 Prepared: 09/06/23 Analyzed: 09/06/23

Diesel Range Organics (C10-C28)	284	25.0	250	37.3	98.6	38-132	0.954	20	
Surrogate: n-Nonane	51.3		50.0		103	50-200			



QC Summary Data

NTG-New Tech Global Environmental 911 Regional Park Dr. Houston TX, 77060	Project Name: Gaucho Unit #017H Project Number: 21106-0001 Project Manager: Ethan Sessums	Reported:  9/7/2023 1:56:49PM
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Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2336050-BLK1)					Prepared: 09/06/23 Analyzed: 09/06/23				
Chloride	ND	20.0							
LCS (2336050-BS1)					Prepared: 09/06/23 Analyzed: 09/06/23				
Chloride	256	20.0	250		103	90-110			
Matrix Spike (2336050-MS1)					Source: E308243-01		Prepared: 09/06/23 Analyzed: 09/06/23		
Chloride	7460	200	250	9090	NR	80-120			M4
Matrix Spike Dup (2336050-MSD1)					Source: E308243-01		Prepared: 09/06/23 Analyzed: 09/06/23		
Chloride	9740	200	250	9090	262	80-120	26.6	20	M4, R2

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

NTG-New Tech Global Environmental	Project Name:	Gaucho Unit #017H	
911 Regional Park Dr.	Project Number:	21106-0001	Reported:
Houston TX, 77060	Project Manager:	Ethan Sessums	09/07/23 13:56

- 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.
- R2 The RPD exceeded the acceptance limit.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

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

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

## Chain of Custody


 Work Order No: E.308243  
 Job # 21100-0001
Page 1 of 1

Project Manager:	Ethan Sessums	Bill to: (if different)	Ethan Sessums
Company Name:	NTG Environmental	Company Name:	NTG Environmental
Address:	209 W McKay St	Address:	209 W McKay St
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	(432) 701-2159	Email:	Esessums@ntgglobal.com

Work Order Comments	
Program:	UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>
State of Project:	
Reporting Level:	Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>
Deliverables:	EDD <input type="checkbox"/> ADaPT <input type="checkbox"/> Other: <input type="checkbox"/>

Project Name:	Gaucho Unit #017H		Turn Around		Pres. Code	ANALYSIS REQUEST																Preservative Codes			
Project Number:	237780		<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush			Parameters	BTEX 8021B TPH 8015M (GRO + DRO + MRO) Chloride 4500																None: NO		DI Water: H <sub>2</sub> O
Project Location:	Lea Co, NM		Due Date:																				Cool: Cool		MeOH: Me
Sampler's Name:	Joey Pinson		TAT starts the day received by the lab, if received by 4:30pm																				HCL: HC		HNO <sub>3</sub> : HN
PO #:																						H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub>		NaOH: Na	
SAMPLE RECEIPT			Temp Blank:	Yes No	Wet Ice:	Yes No																	H <sub>3</sub> PO <sub>4</sub> : HP		
Received Intact:			Yes No		Thermometer ID:																		NaHSO <sub>4</sub> : NABIS		
Cooler Custody Seals:			Yes No N/A		Correction Factor:																		Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>		
Sample Custody Seals:			Yes No N/A		Temperature Reading:	4																	Zn Acetate+NaOH: Zn		
Total Containers:			8		Corrected Temperature:																		NaOH+Ascorbic Acid: SAPC		
Sample Identification	Depth	Date	Time	Soil	Water	Grab/Comp	# of Cont																	Sample Comments	
V-1	0-6"	8/30/2023	11:00	X		Grab	1	X	X	X															1
V-2	0-6"	8/30/2023	11:05	X		Grab	1	X	X	X															2
V-3	0-6"	8/30/2023	11:10	X		Grab	1	X	X	X															3
H-1	0-6"	8/30/2023	11:15	X		Grab	1	X	X	X															4
H-2	0-6"	8/30/2023	11:20	X		Grab	1	X	X	X															5
H-3	0-6"	8/30/2023	11:25	X		Grab	1	X	X	X															6
H-4	0-6"	8/30/2023	11:30	X		Grab	1	X	X	X															7
H-5	0-6"	8/30/2023	11:35	X		Grab	1	X	X	X															8

Additional Comments:

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
JP	Michelle Cuyula	8/31/23 10:25	Michelle Cuyula	Andrew Mays	8/31/23 2:00
Andrew Mays	Carth Mays	9/1/23 5:45			



## Envirotech Analytical Laboratory

Printed: 9/1/2023 11:05:16AM

## 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:	NTG-New Tech Global Environmental	Date Received:	09/01/23 05:45	Work Order ID:	E308243
Phone:	(281) 872-9300	Date Logged In:	08/31/23 14:55	Logged In By:	Caitlin Mars
Email:	esssums@ntglobal.com	Due Date:	09/08/23 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/Resolution

SRC Email not sent per client request.

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:  
Ethan Sessums



5796 U.S. Hwy 64  
Farmington, NM 87401

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



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

NTG-New Tech Global Environmental

Project Name: Gaucho Unit #017H

Work Order: E310112

Job Number: 01058-0007

Received: 10/17/2023

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
10/23/23

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: 10/23/23



Ethan Sessums  
911 Regional Park Dr.  
Houston, TX 77060

Project Name: Gaucho Unit #017H  
Workorder: E310112  
Date Received: 10/17/2023 8:15:00AM

Ethan Sessums,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/17/2023 8:15:00AM, under the Project Name: Gaucho Unit #017H.

The analytical test results summarized in this report with the Project Name: Gaucho Unit #017H 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**  
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**Alexa Michaels**  
Sample Custody Officer  
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Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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Sample Summary

NTG-New Tech Global Environmental 911 Regional Park Dr. Houston TX, 77060	Project Name: Gaucho Unit #017H Project Number: 01058-0007 Project Manager: Ethan Sessums	Reported: 10/23/23 11:35
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
TP-1 1	E310112-01A	Soil	10/13/23	10/17/23	Glass Jar, 4 oz.
TP-1 2	E310112-02A	Soil	10/13/23	10/17/23	Glass Jar, 4 oz.
TP-1 3	E310112-03A	Soil	10/13/23	10/17/23	Glass Jar, 4 oz.
TP-1 4	E310112-04A	Soil	10/13/23	10/17/23	Glass Jar, 4 oz.
TP-2 1	E310112-05A	Soil	10/13/23	10/17/23	Glass Jar, 4 oz.
TP-2 2	E310112-06A	Soil	10/13/23	10/17/23	Glass Jar, 4 oz.
TP-2 3	E310112-07A	Soil	10/13/23	10/17/23	Glass Jar, 4 oz.
TP-2 4	E310112-08A	Soil	10/13/23	10/17/23	Glass Jar, 4 oz.
TP-2 5	E310112-09A	Soil	10/13/23	10/17/23	Glass Jar, 4 oz.
TP-2 6	E310112-10A	Soil	10/13/23	10/17/23	Glass Jar, 4 oz.
TP-2 7	E310112-11A	Soil	10/13/23	10/17/23	Glass Jar, 4 oz.
TP-2 8	E310112-12A	Soil	10/13/23	10/17/23	Glass Jar, 4 oz.
TP-2 9	E310112-13A	Soil	10/13/23	10/17/23	Glass Jar, 4 oz.
TP-2 11	E310112-14A	Soil	10/13/23	10/17/23	Glass Jar, 4 oz.
TP-2 12	E310112-15A	Soil	10/13/23	10/17/23	Glass Jar, 4 oz.
TP-3 1	E310112-16A	Soil	10/13/23	10/17/23	Glass Jar, 4 oz.
TP-3 2	E310112-17A	Soil	10/13/23	10/17/23	Glass Jar, 4 oz.
TP-3 3	E310112-18A	Soil	10/13/23	10/17/23	Glass Jar, 4 oz.
TP-3 4	E310112-19A	Soil	10/13/23	10/17/23	Glass Jar, 4 oz.



Sample Data

NTG-New Tech Global Environmental 911 Regional Park Dr. Houston TX, 77060	Project Name: Gaucho Unit #017H Project Number: 01058-0007 Project Manager: Ethan Sessums	Reported: 10/23/2023 11:35:02AM
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TP-1 1  
E310112-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2342039	
Benzene	ND	0.0250	1	10/17/23	10/18/23	
Ethylbenzene	ND	0.0250	1	10/17/23	10/18/23	
Toluene	ND	0.0250	1	10/17/23	10/18/23	
o-Xylene	ND	0.0250	1	10/17/23	10/18/23	
p,m-Xylene	ND	0.0500	1	10/17/23	10/18/23	
Total Xylenes	ND	0.0250	1	10/17/23	10/18/23	
Surrogate: Bromofluorobenzene	97.9 %	70-130		10/17/23	10/18/23	
Surrogate: 1,2-Dichloroethane-d4	96.0 %	70-130		10/17/23	10/18/23	
Surrogate: Toluene-d8	96.3 %	70-130		10/17/23	10/18/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2342039	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/17/23	10/18/23	
Surrogate: Bromofluorobenzene	97.9 %	70-130		10/17/23	10/18/23	
Surrogate: 1,2-Dichloroethane-d4	96.0 %	70-130		10/17/23	10/18/23	
Surrogate: Toluene-d8	96.3 %	70-130		10/17/23	10/18/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2342043	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/17/23	10/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/17/23	10/19/23	
Surrogate: n-Nonane	54.5 %	50-200		10/17/23	10/19/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2342035	
Chloride	77.4	20.0	1	10/17/23	10/18/23	



## Sample Data

NTG-New Tech Global Environmental  
911 Regional Park Dr.  
Houston TX, 77060

Project Name: Gaucho Unit #017H  
Project Number: 01058-0007  
Project Manager: Ethan Sessums

**Reported:**  
10/23/2023 11:35:02AM

## TP-1 2

## E310112-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2342039
Benzene	ND	0.0250	1	10/17/23	10/18/23	
Ethylbenzene	ND	0.0250	1	10/17/23	10/18/23	
Toluene	ND	0.0250	1	10/17/23	10/18/23	
o-Xylene	ND	0.0250	1	10/17/23	10/18/23	
p,m-Xylene	ND	0.0500	1	10/17/23	10/18/23	
Total Xylenes	ND	0.0250	1	10/17/23	10/18/23	
Surrogate: Bromofluorobenzene	97.4 %	70-130		10/17/23	10/18/23	
Surrogate: 1,2-Dichloroethane-d4	98.6 %	70-130		10/17/23	10/18/23	
Surrogate: Toluene-d8	95.9 %	70-130		10/17/23	10/18/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2342039
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/17/23	10/18/23	
Surrogate: Bromofluorobenzene	97.4 %	70-130		10/17/23	10/18/23	
Surrogate: 1,2-Dichloroethane-d4	98.6 %	70-130		10/17/23	10/18/23	
Surrogate: Toluene-d8	95.9 %	70-130		10/17/23	10/18/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2342043
Diesel Range Organics (C10-C28)	ND	25.0	1	10/17/23	10/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/17/23	10/19/23	
Surrogate: n-Nonane	63.8 %	50-200		10/17/23	10/19/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2342035
Chloride	256	20.0	1	10/17/23	10/18/23	



## Sample Data

NTG-New Tech Global Environmental  
911 Regional Park Dr.  
Houston TX, 77060

Project Name: Gaucho Unit #017H  
Project Number: 01058-0007  
Project Manager: Ethan Sessums

**Reported:**  
10/23/2023 11:35:02AM

## TP-1 3

## E310112-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2342039
Benzene	ND	0.0250	1	10/17/23	10/18/23	
Ethylbenzene	ND	0.0250	1	10/17/23	10/18/23	
Toluene	ND	0.0250	1	10/17/23	10/18/23	
o-Xylene	ND	0.0250	1	10/17/23	10/18/23	
p,m-Xylene	ND	0.0500	1	10/17/23	10/18/23	
Total Xylenes	ND	0.0250	1	10/17/23	10/18/23	
Surrogate: Bromofluorobenzene	99.9 %	70-130		10/17/23	10/18/23	
Surrogate: 1,2-Dichloroethane-d4	97.3 %	70-130		10/17/23	10/18/23	
Surrogate: Toluene-d8	95.2 %	70-130		10/17/23	10/18/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2342039
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/17/23	10/18/23	
Surrogate: Bromofluorobenzene	99.9 %	70-130		10/17/23	10/18/23	
Surrogate: 1,2-Dichloroethane-d4	97.3 %	70-130		10/17/23	10/18/23	
Surrogate: Toluene-d8	95.2 %	70-130		10/17/23	10/18/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2342043
Diesel Range Organics (C10-C28)	ND	25.0	1	10/17/23	10/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/17/23	10/19/23	
Surrogate: n-Nonane	65.6 %	50-200		10/17/23	10/19/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2342035
Chloride	257	20.0	1	10/17/23	10/18/23	



## Sample Data

NTG-New Tech Global Environmental  
911 Regional Park Dr.  
Houston TX, 77060

Project Name: Gaucho Unit #017H  
Project Number: 01058-0007  
Project Manager: Ethan Sessums

**Reported:**  
10/23/2023 11:35:02AM

## TP-1 4

## E310112-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2342039
Benzene	ND	0.0250	1	10/17/23	10/18/23	
Ethylbenzene	ND	0.0250	1	10/17/23	10/18/23	
Toluene	ND	0.0250	1	10/17/23	10/18/23	
o-Xylene	ND	0.0250	1	10/17/23	10/18/23	
p,m-Xylene	ND	0.0500	1	10/17/23	10/18/23	
Total Xylenes	ND	0.0250	1	10/17/23	10/18/23	
Surrogate: Bromofluorobenzene	95.5 %	70-130		10/17/23	10/18/23	
Surrogate: 1,2-Dichloroethane-d4	96.8 %	70-130		10/17/23	10/18/23	
Surrogate: Toluene-d8	96.8 %	70-130		10/17/23	10/18/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2342039
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/17/23	10/18/23	
Surrogate: Bromofluorobenzene	95.5 %	70-130		10/17/23	10/18/23	
Surrogate: 1,2-Dichloroethane-d4	96.8 %	70-130		10/17/23	10/18/23	
Surrogate: Toluene-d8	96.8 %	70-130		10/17/23	10/18/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2342043
Diesel Range Organics (C10-C28)	ND	25.0	1	10/17/23	10/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/17/23	10/19/23	
Surrogate: n-Nonane	66.1 %	50-200		10/17/23	10/19/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2342035
Chloride	46.0	20.0	1	10/17/23	10/18/23	



Sample Data

NTG-New Tech Global Environmental 911 Regional Park Dr. Houston TX, 77060	Project Name: Gaucho Unit #017H Project Number: 01058-0007 Project Manager: Ethan Sessums	Reported: 10/23/2023 11:35:02AM
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TP-2 1  
E310112-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2342039
Benzene	ND	0.0250	1	10/17/23	10/18/23	
Ethylbenzene	ND	0.0250	1	10/17/23	10/18/23	
Toluene	ND	0.0250	1	10/17/23	10/18/23	
o-Xylene	ND	0.0250	1	10/17/23	10/18/23	
p,m-Xylene	ND	0.0500	1	10/17/23	10/18/23	
Total Xylenes	ND	0.0250	1	10/17/23	10/18/23	
Surrogate: Bromofluorobenzene	99.5 %	70-130		10/17/23	10/18/23	
Surrogate: 1,2-Dichloroethane-d4	93.7 %	70-130		10/17/23	10/18/23	
Surrogate: Toluene-d8	96.3 %	70-130		10/17/23	10/18/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2342039
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/17/23	10/18/23	
Surrogate: Bromofluorobenzene	99.5 %	70-130		10/17/23	10/18/23	
Surrogate: 1,2-Dichloroethane-d4	93.7 %	70-130		10/17/23	10/18/23	
Surrogate: Toluene-d8	96.3 %	70-130		10/17/23	10/18/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2342043
Diesel Range Organics (C10-C28)	1030	125	5	10/17/23	10/19/23	
Oil Range Organics (C28-C36)	673	250	5	10/17/23	10/19/23	
Surrogate: n-Nonane	73.4 %	50-200		10/17/23	10/19/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2342035
Chloride	2840	40.0	2	10/17/23	10/18/23	



## Sample Data

NTG-New Tech Global Environmental  
911 Regional Park Dr.  
Houston TX, 77060

Project Name: Gaucho Unit #017H  
Project Number: 01058-0007  
Project Manager: Ethan Sessums

**Reported:**  
10/23/2023 11:35:02AM

## TP-2 2

## E310112-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2342039
Benzene	ND	0.0250	1	10/17/23	10/18/23	
Ethylbenzene	ND	0.0250	1	10/17/23	10/18/23	
Toluene	ND	0.0250	1	10/17/23	10/18/23	
o-Xylene	ND	0.0250	1	10/17/23	10/18/23	
p,m-Xylene	ND	0.0500	1	10/17/23	10/18/23	
Total Xylenes	ND	0.0250	1	10/17/23	10/18/23	
Surrogate: Bromofluorobenzene	95.4 %	70-130		10/17/23	10/18/23	
Surrogate: 1,2-Dichloroethane-d4	93.2 %	70-130		10/17/23	10/18/23	
Surrogate: Toluene-d8	95.6 %	70-130		10/17/23	10/18/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2342039
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/17/23	10/18/23	
Surrogate: Bromofluorobenzene	95.4 %	70-130		10/17/23	10/18/23	
Surrogate: 1,2-Dichloroethane-d4	93.2 %	70-130		10/17/23	10/18/23	
Surrogate: Toluene-d8	95.6 %	70-130		10/17/23	10/18/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2342043
Diesel Range Organics (C10-C28)	1750	250	10	10/17/23	10/19/23	
Oil Range Organics (C28-C36)	1020	500	10	10/17/23	10/19/23	
Surrogate: n-Nonane	64.5 %	50-200		10/17/23	10/19/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2342035
Chloride	1120	20.0	1	10/17/23	10/18/23	





## Sample Data

NTG-New Tech Global Environmental  
911 Regional Park Dr.  
Houston TX, 77060

Project Name: Gaucho Unit #017H  
Project Number: 01058-0007  
Project Manager: Ethan Sessums

**Reported:**  
10/23/2023 11:35:02AM

## TP-2 3

## E310112-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2342039
Benzene	ND	0.0250	1	10/17/23	10/18/23	
Ethylbenzene	ND	0.0250	1	10/17/23	10/18/23	
Toluene	ND	0.0250	1	10/17/23	10/18/23	
o-Xylene	ND	0.0250	1	10/17/23	10/18/23	
p,m-Xylene	ND	0.0500	1	10/17/23	10/18/23	
Total Xylenes	ND	0.0250	1	10/17/23	10/18/23	
Surrogate: Bromofluorobenzene	98.4 %	70-130		10/17/23	10/18/23	
Surrogate: 1,2-Dichloroethane-d4	96.2 %	70-130		10/17/23	10/18/23	
Surrogate: Toluene-d8	96.6 %	70-130		10/17/23	10/18/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2342039
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/17/23	10/18/23	
Surrogate: Bromofluorobenzene	98.4 %	70-130		10/17/23	10/18/23	
Surrogate: 1,2-Dichloroethane-d4	96.2 %	70-130		10/17/23	10/18/23	
Surrogate: Toluene-d8	96.6 %	70-130		10/17/23	10/18/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2342043
Diesel Range Organics (C10-C28)	331	50.0	2	10/17/23	10/19/23	
Oil Range Organics (C28-C36)	186	100	2	10/17/23	10/19/23	
Surrogate: n-Nonane	59.5 %	50-200		10/17/23	10/19/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2342035
Chloride	308	20.0	1	10/17/23	10/18/23	



## Sample Data

NTG-New Tech Global Environmental  
911 Regional Park Dr.  
Houston TX, 77060

Project Name: Gaucho Unit #017H  
Project Number: 01058-0007  
Project Manager: Ethan Sessums

**Reported:**  
10/23/2023 11:35:02AM

## TP-2 4

## E310112-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2342039
Benzene	ND	0.0250	1	10/17/23	10/18/23	
Ethylbenzene	ND	0.0250	1	10/17/23	10/18/23	
Toluene	ND	0.0250	1	10/17/23	10/18/23	
o-Xylene	ND	0.0250	1	10/17/23	10/18/23	
p,m-Xylene	ND	0.0500	1	10/17/23	10/18/23	
Total Xylenes	ND	0.0250	1	10/17/23	10/18/23	
Surrogate: Bromofluorobenzene	98.4 %	70-130		10/17/23	10/18/23	
Surrogate: 1,2-Dichloroethane-d4	96.1 %	70-130		10/17/23	10/18/23	
Surrogate: Toluene-d8	95.6 %	70-130		10/17/23	10/18/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2342039
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/17/23	10/18/23	
Surrogate: Bromofluorobenzene	98.4 %	70-130		10/17/23	10/18/23	
Surrogate: 1,2-Dichloroethane-d4	96.1 %	70-130		10/17/23	10/18/23	
Surrogate: Toluene-d8	95.6 %	70-130		10/17/23	10/18/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2342043
Diesel Range Organics (C10-C28)	ND	25.0	1	10/17/23	10/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/17/23	10/19/23	
Surrogate: n-Nonane	60.5 %	50-200		10/17/23	10/19/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2342035
Chloride	81.1	20.0	1	10/17/23	10/18/23	



Sample Data

NTG-New Tech Global Environmental 911 Regional Park Dr. Houston TX, 77060	Project Name: Gaucho Unit #017H Project Number: 01058-0007 Project Manager: Ethan Sessums	Reported: 10/23/2023 11:35:02AM
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TP-2 5  
E310112-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2342039
Benzene	ND	0.0250	1	10/17/23	10/18/23	
Ethylbenzene	ND	0.0250	1	10/17/23	10/18/23	
Toluene	ND	0.0250	1	10/17/23	10/18/23	
o-Xylene	ND	0.0250	1	10/17/23	10/18/23	
p,m-Xylene	ND	0.0500	1	10/17/23	10/18/23	
Total Xylenes	ND	0.0250	1	10/17/23	10/18/23	
Surrogate: Bromofluorobenzene	96.6 %	70-130		10/17/23	10/18/23	
Surrogate: 1,2-Dichloroethane-d4	99.6 %	70-130		10/17/23	10/18/23	
Surrogate: Toluene-d8	94.6 %	70-130		10/17/23	10/18/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2342039
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/17/23	10/18/23	
Surrogate: Bromofluorobenzene	96.6 %	70-130		10/17/23	10/18/23	
Surrogate: 1,2-Dichloroethane-d4	99.6 %	70-130		10/17/23	10/18/23	
Surrogate: Toluene-d8	94.6 %	70-130		10/17/23	10/18/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2342043
Diesel Range Organics (C10-C28)	ND	25.0	1	10/17/23	10/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/17/23	10/19/23	
Surrogate: n-Nonane	69.4 %	50-200		10/17/23	10/19/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2342035
Chloride	ND	20.0	1	10/17/23	10/18/23	



Sample Data

NTG-New Tech Global Environmental 911 Regional Park Dr. Houston TX, 77060	Project Name: Gaucho Unit #017H Project Number: 01058-0007 Project Manager: Ethan Sessums	Reported: 10/23/2023 11:35:02AM
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TP-2 6  
E310112-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2342039
Benzene	ND	0.0250	1	10/17/23	10/18/23	
Ethylbenzene	ND	0.0250	1	10/17/23	10/18/23	
Toluene	ND	0.0250	1	10/17/23	10/18/23	
o-Xylene	0.0435	0.0250	1	10/17/23	10/18/23	
p,m-Xylene	0.0685	0.0500	1	10/17/23	10/18/23	
Total Xylenes	0.112	0.0250	1	10/17/23	10/18/23	
Surrogate: Bromofluorobenzene	96.7 %	70-130		10/17/23	10/18/23	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		10/17/23	10/18/23	
Surrogate: Toluene-d8	98.0 %	70-130		10/17/23	10/18/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2342039
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/17/23	10/18/23	
Surrogate: Bromofluorobenzene	96.7 %	70-130		10/17/23	10/18/23	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		10/17/23	10/18/23	
Surrogate: Toluene-d8	98.0 %	70-130		10/17/23	10/18/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2342043
Diesel Range Organics (C10-C28)	941	125	5	10/17/23	10/19/23	
Oil Range Organics (C28-C36)	447	250	5	10/17/23	10/19/23	
Surrogate: n-Nonane	70.3 %	50-200		10/17/23	10/19/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2342035
Chloride	669	20.0	1	10/17/23	10/18/23	



## Sample Data

NTG-New Tech Global Environmental  
911 Regional Park Dr.  
Houston TX, 77060

Project Name: Gaucho Unit #017H  
Project Number: 01058-0007  
Project Manager: Ethan Sessums

**Reported:**  
10/23/2023 11:35:02AM

## TP-2 7

## E310112-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2342039
Benzene	ND	0.0250	1	10/17/23	10/18/23	
Ethylbenzene	ND	0.0250	1	10/17/23	10/18/23	
Toluene	ND	0.0250	1	10/17/23	10/18/23	
o-Xylene	ND	0.0250	1	10/17/23	10/18/23	
p,m-Xylene	ND	0.0500	1	10/17/23	10/18/23	
Total Xylenes	ND	0.0250	1	10/17/23	10/18/23	
Surrogate: Bromofluorobenzene	96.2 %	70-130		10/17/23	10/18/23	
Surrogate: 1,2-Dichloroethane-d4	94.7 %	70-130		10/17/23	10/18/23	
Surrogate: Toluene-d8	93.7 %	70-130		10/17/23	10/18/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2342039
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/17/23	10/18/23	
Surrogate: Bromofluorobenzene	96.2 %	70-130		10/17/23	10/18/23	
Surrogate: 1,2-Dichloroethane-d4	94.7 %	70-130		10/17/23	10/18/23	
Surrogate: Toluene-d8	93.7 %	70-130		10/17/23	10/18/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2342043
Diesel Range Organics (C10-C28)	ND	25.0	1	10/17/23	10/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/17/23	10/19/23	
Surrogate: n-Nonane	68.9 %	50-200		10/17/23	10/19/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2342035
Chloride	577	20.0	1	10/17/23	10/18/23	





Sample Data

NTG-New Tech Global Environmental 911 Regional Park Dr. Houston TX, 77060	Project Name: Gaucho Unit #017H Project Number: 01058-0007 Project Manager: Ethan Sessums	Reported: 10/23/2023 11:35:02AM
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TP-2 8  
E310112-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2342039
Benzene	ND	0.0250	1	10/17/23	10/18/23	
Ethylbenzene	ND	0.0250	1	10/17/23	10/18/23	
Toluene	ND	0.0250	1	10/17/23	10/18/23	
o-Xylene	ND	0.0250	1	10/17/23	10/18/23	
p,m-Xylene	ND	0.0500	1	10/17/23	10/18/23	
Total Xylenes	ND	0.0250	1	10/17/23	10/18/23	
Surrogate: Bromofluorobenzene	96.8 %	70-130		10/17/23	10/18/23	
Surrogate: 1,2-Dichloroethane-d4	95.2 %	70-130		10/17/23	10/18/23	
Surrogate: Toluene-d8	95.8 %	70-130		10/17/23	10/18/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2342039
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/17/23	10/18/23	
Surrogate: Bromofluorobenzene	96.8 %	70-130		10/17/23	10/18/23	
Surrogate: 1,2-Dichloroethane-d4	95.2 %	70-130		10/17/23	10/18/23	
Surrogate: Toluene-d8	95.8 %	70-130		10/17/23	10/18/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2342043
Diesel Range Organics (C10-C28)	42.8	25.0	1	10/17/23	10/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/17/23	10/19/23	
Surrogate: n-Nonane	64.1 %	50-200		10/17/23	10/19/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2342035
Chloride	1010	20.0	1	10/17/23	10/18/23	



## Sample Data

NTG-New Tech Global Environmental  
911 Regional Park Dr.  
Houston TX, 77060

Project Name: Gaucho Unit #017H  
Project Number: 01058-0007  
Project Manager: Ethan Sessums

**Reported:**  
10/23/2023 11:35:02AM

## TP-2 9

## E310112-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2342039
Benzene	ND	0.0250	1	10/17/23	10/18/23	
Ethylbenzene	ND	0.0250	1	10/17/23	10/18/23	
Toluene	ND	0.0250	1	10/17/23	10/18/23	
o-Xylene	ND	0.0250	1	10/17/23	10/18/23	
p,m-Xylene	ND	0.0500	1	10/17/23	10/18/23	
Total Xylenes	ND	0.0250	1	10/17/23	10/18/23	
Surrogate: Bromofluorobenzene	96.1 %	70-130		10/17/23	10/18/23	
Surrogate: 1,2-Dichloroethane-d4	96.7 %	70-130		10/17/23	10/18/23	
Surrogate: Toluene-d8	93.1 %	70-130		10/17/23	10/18/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2342039
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/17/23	10/18/23	
Surrogate: Bromofluorobenzene	96.1 %	70-130		10/17/23	10/18/23	
Surrogate: 1,2-Dichloroethane-d4	96.7 %	70-130		10/17/23	10/18/23	
Surrogate: Toluene-d8	93.1 %	70-130		10/17/23	10/18/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2342043
Diesel Range Organics (C10-C28)	ND	25.0	1	10/17/23	10/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/17/23	10/19/23	
Surrogate: n-Nonane	69.2 %	50-200		10/17/23	10/19/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2342035
Chloride	2150	20.0	1	10/17/23	10/18/23	



Sample Data

NTG-New Tech Global Environmental 911 Regional Park Dr. Houston TX, 77060	Project Name: Gaucho Unit #017H Project Number: 01058-0007 Project Manager: Ethan Sessums	Reported: 10/23/2023 11:35:02AM
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TP-2 11

E310112-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2342039
Benzene	ND	0.0250	1	10/17/23	10/18/23	
Ethylbenzene	ND	0.0250	1	10/17/23	10/18/23	
Toluene	ND	0.0250	1	10/17/23	10/18/23	
o-Xylene	ND	0.0250	1	10/17/23	10/18/23	
p,m-Xylene	ND	0.0500	1	10/17/23	10/18/23	
Total Xylenes	ND	0.0250	1	10/17/23	10/18/23	
Surrogate: Bromofluorobenzene	96.5 %	70-130		10/17/23	10/18/23	
Surrogate: 1,2-Dichloroethane-d4	92.7 %	70-130		10/17/23	10/18/23	
Surrogate: Toluene-d8	94.7 %	70-130		10/17/23	10/18/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2342039
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/17/23	10/18/23	
Surrogate: Bromofluorobenzene	96.5 %	70-130		10/17/23	10/18/23	
Surrogate: 1,2-Dichloroethane-d4	92.7 %	70-130		10/17/23	10/18/23	
Surrogate: Toluene-d8	94.7 %	70-130		10/17/23	10/18/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2342043
Diesel Range Organics (C10-C28)	ND	25.0	1	10/17/23	10/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/17/23	10/19/23	
Surrogate: n-Nonane	67.1 %	50-200		10/17/23	10/19/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2342035
Chloride	84.5	20.0	1	10/17/23	10/18/23	



Sample Data

NTG-New Tech Global Environmental 911 Regional Park Dr. Houston TX, 77060	Project Name: Gaucho Unit #017H Project Number: 01058-0007 Project Manager: Ethan Sessums	Reported: 10/23/2023 11:35:02AM
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TP-2 12

E310112-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2342039
Benzene	ND	0.0250	1	10/17/23	10/18/23	
Ethylbenzene	ND	0.0250	1	10/17/23	10/18/23	
Toluene	ND	0.0250	1	10/17/23	10/18/23	
o-Xylene	ND	0.0250	1	10/17/23	10/18/23	
p,m-Xylene	ND	0.0500	1	10/17/23	10/18/23	
Total Xylenes	ND	0.0250	1	10/17/23	10/18/23	
Surrogate: Bromofluorobenzene	97.2 %	70-130		10/17/23	10/18/23	
Surrogate: 1,2-Dichloroethane-d4	96.0 %	70-130		10/17/23	10/18/23	
Surrogate: Toluene-d8	97.5 %	70-130		10/17/23	10/18/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2342039
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/17/23	10/18/23	
Surrogate: Bromofluorobenzene	97.2 %	70-130		10/17/23	10/18/23	
Surrogate: 1,2-Dichloroethane-d4	96.0 %	70-130		10/17/23	10/18/23	
Surrogate: Toluene-d8	97.5 %	70-130		10/17/23	10/18/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2342043
Diesel Range Organics (C10-C28)	ND	25.0	1	10/17/23	10/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/17/23	10/19/23	
Surrogate: n-Nonane	65.7 %	50-200		10/17/23	10/19/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2342035
Chloride	169	20.0	1	10/17/23	10/18/23	



Sample Data

NTG-New Tech Global Environmental 911 Regional Park Dr. Houston TX, 77060	Project Name: Gaucho Unit #017H Project Number: 01058-0007 Project Manager: Ethan Sessums	Reported: 10/23/2023 11:35:02AM
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TP-3 1  
E310112-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2342039
Benzene	ND	0.0250	1	10/17/23	10/18/23	
Ethylbenzene	ND	0.0250	1	10/17/23	10/18/23	
Toluene	ND	0.0250	1	10/17/23	10/18/23	
o-Xylene	0.0415	0.0250	1	10/17/23	10/18/23	
p,m-Xylene	0.0670	0.0500	1	10/17/23	10/18/23	
Total Xylenes	0.109	0.0250	1	10/17/23	10/18/23	
Surrogate: Bromofluorobenzene	97.7 %	70-130		10/17/23	10/18/23	
Surrogate: 1,2-Dichloroethane-d4	93.2 %	70-130		10/17/23	10/18/23	
Surrogate: Toluene-d8	94.6 %	70-130		10/17/23	10/18/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2342039
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/17/23	10/18/23	
Surrogate: Bromofluorobenzene	97.7 %	70-130		10/17/23	10/18/23	
Surrogate: 1,2-Dichloroethane-d4	93.2 %	70-130		10/17/23	10/18/23	
Surrogate: Toluene-d8	94.6 %	70-130		10/17/23	10/18/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2342043
Diesel Range Organics (C10-C28)	224	25.0	1	10/17/23	10/19/23	
Oil Range Organics (C28-C36)	73.9	50.0	1	10/17/23	10/19/23	
Surrogate: n-Nonane	71.0 %	50-200		10/17/23	10/19/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2342035
Chloride	233	20.0	1	10/17/23	10/18/23	



Sample Data

NTG-New Tech Global Environmental 911 Regional Park Dr. Houston TX, 77060	Project Name: Gaucho Unit #017H Project Number: 01058-0007 Project Manager: Ethan Sessums	Reported: 10/23/2023 11:35:02AM
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TP-3 2  
E310112-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2342039
Benzene	ND	0.0250	1	10/17/23	10/18/23	
Ethylbenzene	ND	0.0250	1	10/17/23	10/18/23	
Toluene	ND	0.0250	1	10/17/23	10/18/23	
o-Xylene	ND	0.0250	1	10/17/23	10/18/23	
p,m-Xylene	ND	0.0500	1	10/17/23	10/18/23	
Total Xylenes	ND	0.0250	1	10/17/23	10/18/23	
Surrogate: Bromofluorobenzene	99.6 %	70-130		10/17/23	10/18/23	
Surrogate: 1,2-Dichloroethane-d4	95.9 %	70-130		10/17/23	10/18/23	
Surrogate: Toluene-d8	94.2 %	70-130		10/17/23	10/18/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2342039
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/17/23	10/18/23	
Surrogate: Bromofluorobenzene	99.6 %	70-130		10/17/23	10/18/23	
Surrogate: 1,2-Dichloroethane-d4	95.9 %	70-130		10/17/23	10/18/23	
Surrogate: Toluene-d8	94.2 %	70-130		10/17/23	10/18/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2342043
Diesel Range Organics (C10-C28)	ND	25.0	1	10/17/23	10/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/17/23	10/19/23	
Surrogate: n-Nonane	72.6 %	50-200		10/17/23	10/19/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2342035
Chloride	ND	20.0	1	10/17/23	10/18/23	





Sample Data

NTG-New Tech Global Environmental 911 Regional Park Dr. Houston TX, 77060	Project Name: Gaucho Unit #017H Project Number: 01058-0007 Project Manager: Ethan Sessums	Reported: 10/23/2023 11:35:02AM
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TP-3 3  
E310112-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2342039
Benzene	ND	0.0250	1	10/17/23	10/18/23	
Ethylbenzene	ND	0.0250	1	10/17/23	10/18/23	
Toluene	ND	0.0250	1	10/17/23	10/18/23	
o-Xylene	ND	0.0250	1	10/17/23	10/18/23	
p,m-Xylene	ND	0.0500	1	10/17/23	10/18/23	
Total Xylenes	ND	0.0250	1	10/17/23	10/18/23	
Surrogate: Bromofluorobenzene	95.9 %	70-130		10/17/23	10/18/23	
Surrogate: 1,2-Dichloroethane-d4	94.2 %	70-130		10/17/23	10/18/23	
Surrogate: Toluene-d8	96.1 %	70-130		10/17/23	10/18/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2342039
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/17/23	10/18/23	
Surrogate: Bromofluorobenzene	95.9 %	70-130		10/17/23	10/18/23	
Surrogate: 1,2-Dichloroethane-d4	94.2 %	70-130		10/17/23	10/18/23	
Surrogate: Toluene-d8	96.1 %	70-130		10/17/23	10/18/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2342043
Diesel Range Organics (C10-C28)	ND	25.0	1	10/17/23	10/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/17/23	10/19/23	
Surrogate: n-Nonane	69.7 %	50-200		10/17/23	10/19/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2342035
Chloride	ND	20.0	1	10/17/23	10/18/23	



Sample Data

NTG-New Tech Global Environmental 911 Regional Park Dr. Houston TX, 77060	Project Name: Gaucho Unit #017H Project Number: 01058-0007 Project Manager: Ethan Sessums	Reported: 10/23/2023 11:35:02AM
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TP-3 4  
E310112-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2342039
Benzene	ND	0.0250	1	10/17/23	10/18/23	
Ethylbenzene	ND	0.0250	1	10/17/23	10/18/23	
Toluene	ND	0.0250	1	10/17/23	10/18/23	
o-Xylene	ND	0.0250	1	10/17/23	10/18/23	
p,m-Xylene	ND	0.0500	1	10/17/23	10/18/23	
Total Xylenes	ND	0.0250	1	10/17/23	10/18/23	
Surrogate: Bromofluorobenzene		103 %	70-130	10/17/23	10/18/23	
Surrogate: 1,2-Dichloroethane-d4		107 %	70-130	10/17/23	10/18/23	
Surrogate: Toluene-d8		95.7 %	70-130	10/17/23	10/18/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2342039
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/17/23	10/18/23	
Surrogate: Bromofluorobenzene		103 %	70-130	10/17/23	10/18/23	
Surrogate: 1,2-Dichloroethane-d4		107 %	70-130	10/17/23	10/18/23	
Surrogate: Toluene-d8		95.7 %	70-130	10/17/23	10/18/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2342043
Diesel Range Organics (C10-C28)	ND	25.0	1	10/17/23	10/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/17/23	10/19/23	
Surrogate: n-Nonane		68.6 %	50-200	10/17/23	10/19/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2342035
Chloride	ND	20.0	1	10/17/23	10/18/23	



QC Summary Data

NTG-New Tech Global Environmental	Project Name:	Gaucho Unit #017H	Reported:  10/23/2023 11:35:02AM
911 Regional Park Dr.	Project Number:	01058-0007	
Houston TX, 77060	Project Manager:	Ethan Sessums	

Volatile Organic Compounds by EPA 8260B

Analyst: RKS

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 (2342039-BLK1) Prepared: 10/17/23 Analyzed: 10/18/23

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	0.512		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.497		0.500		99.4	70-130			
Surrogate: Toluene-d8	0.480		0.500		96.0	70-130			

LCS (2342039-BS1) Prepared: 10/17/23 Analyzed: 10/18/23

Benzene	2.43	0.0250	2.50		97.3	70-130			
Ethylbenzene	2.39	0.0250	2.50		95.7	70-130			
Toluene	2.32	0.0250	2.50		92.8	70-130			
o-Xylene	2.42	0.0250	2.50		97.0	70-130			
p,m-Xylene	4.73	0.0500	5.00		94.7	70-130			
Total Xylenes	7.16	0.0250	7.50		95.5	70-130			
Surrogate: Bromofluorobenzene	0.487		0.500		97.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.488		0.500		97.6	70-130			
Surrogate: Toluene-d8	0.479		0.500		95.7	70-130			

Matrix Spike (2342039-MS1) Source: E310112-03 Prepared: 10/17/23 Analyzed: 10/18/23

Benzene	2.48	0.0250	2.50	ND	99.0	48-131			
Ethylbenzene	2.44	0.0250	2.50	ND	97.7	45-135			
Toluene	2.38	0.0250	2.50	ND	95.2	48-130			
o-Xylene	2.46	0.0250	2.50	ND	98.2	43-135			
p,m-Xylene	4.80	0.0500	5.00	ND	96.1	43-135			
Total Xylenes	7.26	0.0250	7.50	ND	96.8	43-135			
Surrogate: Bromofluorobenzene	0.484		0.500		96.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.511		0.500		102	70-130			
Surrogate: Toluene-d8	0.479		0.500		95.8	70-130			

Matrix Spike Dup (2342039-MSD1) Source: E310112-03 Prepared: 10/17/23 Analyzed: 10/18/23

Benzene	2.43	0.0250	2.50	ND	97.4	48-131	1.69	23	
Ethylbenzene	2.37	0.0250	2.50	ND	94.7	45-135	3.08	27	
Toluene	2.30	0.0250	2.50	ND	92.0	48-130	3.42	24	
o-Xylene	2.37	0.0250	2.50	ND	94.8	43-135	3.56	27	
p,m-Xylene	4.62	0.0500	5.00	ND	92.4	43-135	3.88	27	
Total Xylenes	6.99	0.0250	7.50	ND	93.2	43-135	3.77	27	
Surrogate: Bromofluorobenzene	0.480		0.500		95.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.511		0.500		102	70-130			
Surrogate: Toluene-d8	0.470		0.500		94.0	70-130			



QC Summary Data

NTG-New Tech Global Environmental	Project Name:	Gaucha Unit #017H	Reported:  10/23/2023 11:35:02AM
911 Regional Park Dr.	Project Number:	01058-0007	
Houston TX, 77060	Project Manager:	Ethan Sessums	

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

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 (2342039-BLK1) Prepared: 10/17/23 Analyzed: 10/18/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.512		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.497		0.500		99.4	70-130			
Surrogate: Toluene-d8	0.480		0.500		96.0	70-130			

LCS (2342039-BS2) Prepared: 10/17/23 Analyzed: 10/18/23

Gasoline Range Organics (C6-C10)	42.8	20.0	50.0		85.5	70-130			
Surrogate: Bromofluorobenzene	0.483		0.500		96.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.473		0.500		94.6	70-130			
Surrogate: Toluene-d8	0.488		0.500		97.5	70-130			

Matrix Spike (2342039-MS2) Source: E310112-03 Prepared: 10/17/23 Analyzed: 10/18/23

Gasoline Range Organics (C6-C10)	41.0	20.0	50.0	ND	82.0	70-130			
Surrogate: Bromofluorobenzene	0.496		0.500		99.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.490		0.500		97.9	70-130			
Surrogate: Toluene-d8	0.476		0.500		95.1	70-130			

Matrix Spike Dup (2342039-MSD2) Source: E310112-03 Prepared: 10/17/23 Analyzed: 10/18/23

Gasoline Range Organics (C6-C10)	41.0	20.0	50.0	ND	82.1	70-130	0.174	20	
Surrogate: Bromofluorobenzene	0.478		0.500		95.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.484		0.500		96.7	70-130			
Surrogate: Toluene-d8	0.488		0.500		97.6	70-130			



QC Summary Data

NTG-New Tech Global Environmental 911 Regional Park Dr. Houston TX, 77060	Project Name: Gaucho Unit #017H Project Number: 01058-0007 Project Manager: Ethan Sessums	Reported:  10/23/2023 11:35:02AM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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<b>Blank (2342043-BLK1)</b>					Prepared: 10/17/23 Analyzed: 10/19/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	38.8		50.0		77.6	50-200			

<b>LCS (2342043-BS1)</b>					Prepared: 10/17/23 Analyzed: 10/19/23				
Diesel Range Organics (C10-C28)	212	25.0	250		84.8	38-132			
Surrogate: n-Nonane	37.4		50.0		74.8	50-200			

<b>Matrix Spike (2342043-MS1)</b>					<b>Source: E310112-05</b>		Prepared: 10/17/23 Analyzed: 10/19/23		
Diesel Range Organics (C10-C28)	1160	125	250	1030	53.7	38-132			
Surrogate: n-Nonane	33.9		50.0		67.8	50-200			

<b>Matrix Spike Dup (2342043-MSD1)</b>					<b>Source: E310112-05</b>		Prepared: 10/17/23 Analyzed: 10/19/23		
Diesel Range Organics (C10-C28)	1220	125	250	1030	77.2	38-132	4.95	20	
Surrogate: n-Nonane	34.2		50.0		68.4	50-200			



QC Summary Data

NTG-New Tech Global Environmental 911 Regional Park Dr. Houston TX, 77060	Project Name: Gaucho Unit #017H Project Number: 01058-0007 Project Manager: Ethan Sessums	Reported: 10/23/2023 11:35:02AM
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Anions by EPA 300.0/9056A

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 (2342035-BLK1)					Prepared: 10/17/23 Analyzed: 10/18/23				
Chloride	ND	20.0							
LCS (2342035-BS1)					Prepared: 10/17/23 Analyzed: 10/19/23				
Chloride	250	20.0	250		99.8	90-110			
Matrix Spike (2342035-MS1)					Source: E310112-07		Prepared: 10/17/23 Analyzed: 10/18/23		
Chloride	867	20.0	250	308	224	80-120			M2
Matrix Spike Dup (2342035-MSD1)					Source: E310112-07		Prepared: 10/17/23 Analyzed: 10/18/23		
Chloride	684	20.0	250	308	150	80-120	23.6	20	M2, R3

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

NTG-New Tech Global Environmental	Project Name:	Gaucho Unit #017H	
911 Regional Park Dr.	Project Number:	01058-0007	Reported:
Houston TX, 77060	Project Manager:	Ethan Sessums	10/23/23 11:35

- M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.
- R3 The RPD exceeded the acceptance limit. LCS spike recovery met acceptance criteria.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.

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

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









## Chain of Custody

Work Order No: E310112  
Job # 01058-0007

Page 2 of 2

Project Manager:	Ethan Sessums	Bill to: (if different)	Wesley Matthews
Company Name:	NTG Environmental	Company Name:	Devon
Address:	209 W McKay St	Address:	
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	
Phone:	432-701-2159	Email:	<a href="mailto:esessums@ntglobal.com">esessums@ntglobal.com</a>

Work Order Comments			
Program: UST/PST	<input type="checkbox"/> PRP	<input type="checkbox"/> Brownfields	<input type="checkbox"/> RRC <input type="checkbox"/> Superfund
State of Project:			
Reporting: Level II	<input type="checkbox"/> Level III	<input type="checkbox"/> PST/UST	<input type="checkbox"/> RRP <input type="checkbox"/> Level IV
Deliverables: EDD	<input type="checkbox"/> ADaPT	<input type="checkbox"/> Other:	

[illegible]

Additional Comments:

**Notice:** Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)		Received by: (Signature)		Date/Time	
1	<i>[Signature]</i>	<i>[Signature]</i>		10/16/23 1:00	
3	<i>[Signature]</i>	<i>[Signature]</i>		10-17-23 8:15	
5					

## Envirotech Analytical Laboratory

Printed: 10/17/2023 12:56:32PM

## 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:	NTG-New Tech Global Environmental	Date Received:	10/17/23 08:15	Work Order ID:	E310112
Phone:	(281) 872-9300	Date Logged In:	10/16/23 14:58	Logged In By:	Caitlin Mars
Email:	esssums@ntglobal.com	Due Date:	10/23/23 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/Resolution

SRC email not sent per client request.

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? Yes

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

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

QUESTIONS  
  
Action 364920

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:
	6137
	Action Number:
	364920
Action Type:	
[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2320533965
Incident Name	NAPP2320533965 GAUCHO UNIT #017H @ 30-025-41854
Incident Type	Oil Release
Incident Status	Remediation Plan Received
Incident Well	[30-025-41854] GAUCHO UNIT #017H

Location of Release Source	
Please answer all the questions in this group.	
Site Name	GAUCHO UNIT #017H
Date Release Discovered	07/21/2023
Surface Owner	Federal

Incident Details	
Please answer all the questions in this group.	
Incident Type	Oil Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Equipment Failure   Well   Crude Oil   Released: 3 BBL   Recovered: 0 BBL   Lost: 3 BBL.
Produced Water Released (bbls) Details	Cause: Equipment Failure   Well   Produced Water   Released: 3 BBL   Recovered: 0 BBL   Lost: 3 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Leak was due to worn packing along with high tubing pressure possible. The braid BP valve got some trash in it raising the tubing pressure and causing a release. The unit was already down so the LO went to isolating the well. No fluids recovered. 5.49 bbls released

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QUESTIONS, Page 2

Action 364920

**QUESTIONS (continued)**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:
	6137
	Action Number:
	364920
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

**Initial Response**

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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.

I hereby agree and sign off to the above statement	Name: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dmv.com Date: 07/17/2024
--	--



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QUESTIONS, Page 3

Action 364920

**QUESTIONS (continued)**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:	6137
	Action Number:	364920
	Action Type:	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS****Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). 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 in feet below ground surface (ft bgs)	Between 51 and 75 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Greater than 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

**Remediation Plan**

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

**Soil Contamination Sampling:** (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride (EPA 300.0 or SM4500 Cl B)	9090
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	13947
GRO+DRO (EPA SW-846 Method 8015M)	10157
BTEX (EPA SW-846 Method 8021B or 8260B)	5
Benzene (EPA SW-846 Method 8021B or 8260B)	0.3

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	08/29/2024
On what date will (or did) the final sampling or liner inspection occur	09/12/2024
On what date will (or was) the remediation complete(d)	09/26/2024
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	973
What is the estimated volume (in cubic yards) that will be remediated	103

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 4

Action 364920

**QUESTIONS (continued)**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 364920
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS****Remediation Plan (continued)**

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

**This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:**

(Select all answers below that apply.)

(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	LEA LAND LANDFILL [fEEM0112342028]
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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.

I hereby agree and sign off to the above statement	Name: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dmn.com Date: 07/17/2024
--	--

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 5  
  
Action 364920

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 364920
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

<b>Deferral Requests Only</b>	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6  
Action 364920

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 364920
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	{Unavailable.}

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	No

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CONDITIONS  
  
Action 364920

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 364920
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
nvelez	The remediation plan is approved as written. Devon has 90-days (October 22, 2024) to submit to OCD its appropriate or final remediation closure report.	7/24/2024