

209 W. McKay Street Carlsbad, New Mexico 88220 Tel. 432-701-2159 www.ntgenvironmental.com

January 16, 2025

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

Re: Site Characterization and Remediation Work Plan

BTA Oil Producers Gem 8705 JV-P #004

Unit N, Section 02, Township 20S, Range 33E Site Coordinates: 32.5963364, -103.6361542

Lea County, New Mexico Incident ID: nTO1414738096

# **Introduction**

On behalf of BTA Oil Producers (BTA), 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, remedial action activities, and sample analysis results for incident ID: nTO1414738096 – Gem 8705 JV-P #004 (Site). The Site is in Unit Letter N, Section 02, of Township 20 South and Range 33 East in Lea County, New Mexico. The GPS coordinates for the release site are 32.5963364° N latitude and 103.6361542° W longitude. The site location with respect to the nearest town is shown on Figure 1 and the topography of the area is shown on Figure 2.

# **Background**

**Incident nTO1414738096:** Based on the initial C-141 submitted by BTA and obtained by the New Mexico Oil Conservation District (NMOCD), the release was discovered on May 15, 2014, and was the result of a hole in a flow line, resulting in the release of eight (8) barrels (bbls) of crude oil, of which four (4) bbls were recovered for a net loss of four (4) bbls. Upon discovery, all associated wells were shut in, and the area was secured. The release area is shown on Figure 3

Creating a Better Environment For Oil & Gas Operations Mr. Mike Bratcher January 16, 2025 Page 2 of 3

# **Groundwater and Site Characterization**

Based on a review of the New Mexico Office of State Engineers and USGS databases, there is one known water source within a ½-mile radius of the Site. A groundwater determination bore (CP-1865 POD 1 and 2) was drilled to a depth of one-hundred and five (105) foot below ground surface (bgs) and no groundwater was 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) is 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).

# General Site Characterization and Groundwater:

Site Characterization	Average Groundwater Depth (ft)
Low Karst	>105'

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

Regulatory Standard	Chloride	ТРН	GRO+DRO	BTEX	Benzene
		(GRO+DRO+MRO)			
19.15.29.12 Remediation					
and Closure Criteria for	600 mg/kg	100 mg/kg		50 mg/kg	10 mg/kg
Soils Impacted by a					
Release					
19.15.29.13 Remediation					
and Closure Criteria for	20,000 mg/kg	2,500 mg/kg	1,000 mg/kg	50 mg/kg	10 mg/kg
Soils Impacted by a					
Release (>4 Feet)					
Notes:					
. 1 0 1					

<sup>---</sup> = not defined

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

On December 26, 2024, NTGE conducted site assessment activities to assess the extent of impacts at the Site. Five (5) vertical sample points (V-1 through V-5) were installed within the release area and six (6) horizontal sample points (H-1 through H-6) were installed adjacent to the release area in order to vertically and horizontally characterize the impacts. Vertical soil samples were collected at one (1) foot intervals from depths ranging from zero (0) to four and a half (4.5) feet (ft) bgs. and horizontal soil samples were collected at zero to half a foot (0-0.5') increments with a geotechnical hand auger. The auger was decontaminated with Alconox© and deionized water between sample points to prevent cross contamination. Soil samples were placed directly into laboratory provided samples containers, placed on ice, and transported under proper chain-of-custody protocol to Cardinal Laboratories in Hobbs, New Mexico for analysis of benzene, toluene, ethylbenzene, and xylene (BTEX) (Method SW846 8021B), total petroleum hydrocarbon (TPH) (Method SW846 8015B), and chloride (method EPA 4500CL-B). Analytical

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results indicated that TPH and chloride concentrations exceeded the NMOCD regulatory limits at a zero (0) to a half foot (0.5) ft in the area of V-5. Sample point V-5 exhibited TPH and chloride concentrations below Table I Closure Criteria from depths ranging from one to one and a half (1-1.5) ft to four and four and a half (4-4.5) ft bgs, thus achieving vertical delineation for the impacted area. All horizontal samples were below NMOCD regulatory limits at a depth of zero (0) to a half foot (0-0.5') below ground surface (bgs).

Analytical results are included in Table 1, while soil boring and delineated locations are shown on Figure 3. Laboratory reports containing analytical methods and chain-of-custody documents are attached to the report.

# **Proposed Work Plan**

After receiving and evaluating the soil boring data NTGE proposes to excavate the areas of V-5 to a depth of half a foot (0.5) ft bgs to ensure that the impacted soils have been removed from the Site. Approximately 32 cubic yards of impacted material will be excavated and transported offsite for disposal at an NMOCD approved landfill. The proposed excavation map is shown on Figure 4.

Upon completion of the excavation, 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 8015B Modified and chloride by SM4500 Cl-B. 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 I Closure Criteria.

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

Sincerely,

**NTG Environmental** 

**Ethan Sessums** 

Jr. Field Operations Manager

Kellan Smith

Project Manager

Kellen Ditt

Attachments:

Tables

Figures

Photographic Log

Site Characterization Documentation

Laboratory Reports and Chain-of-Custody Documents

NTGE Project No.: 249318



# **Tables**



# Table 1 Summary of Soil Analytical Data - Delineation Samples Gem 8705 JV-P #004 BTA Oil Producers Lea County, New Mexico

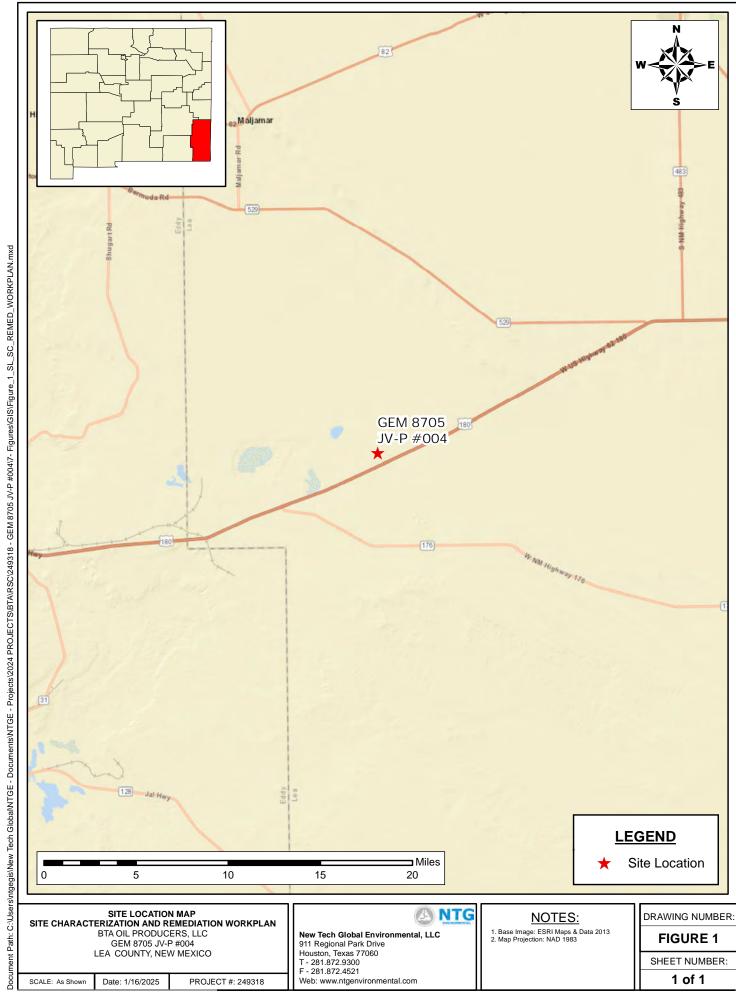
								ТРН					
Sample ID	Sample Date	Depth	Benzene	Toluene	Ethylbenzene	Xylenes	ВТЕХ	GRO (C6-C10)	DRO (C10-C28)	GRO + DRO (C6-C28)	MRO (C28-C35)	Total GRO/DRO/MRO (C6-C35)	Chloride
·	·	(ft bgs)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
					Table	e I Closure Cri	iteria for Soil	>100 feet De	pth to Grou	ndwater 19.15.2	9 NMAC		
			10 mg/kg				50 mg/kg			1,000 mg/kg		2,500 mg/kg	20,000 mg/kg
					Ver	tical Delineat	ion Samples	,	•				
	12/26/24	0-0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	464
	12/26/24	1-1.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
V-1	12/26/24	2-2.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
	12/26/24	3-3.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
	12/26/24	4-4.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
	12/26/24	0-0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
	12/26/24	1-1.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
V-2	12/26/24	2-2.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
	12/26/24	3-3.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
	12/26/24	4-4.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
	12/26/24	0-0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	352
V-3	12/26/24	1-1.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
	12/26/24	2-2.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
	12/26/24	3-3.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	60.6	60.6	38.8	99.4	320
	12/26/24	4-4.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
	12/26/24	0-0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
	12/26/24	1-1.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
V-4	12/26/24	2-2.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	16.3	16.3	<10.0	16.3	160
	12/26/24	3-3.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
	12/26/24	4-4.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
	12/26/24	0-0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	157	157	97.9	254.9	3,080
	12/26/24	1-1.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
V-5	12/26/24	2-2.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
	12/26/24	3-3.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
	12/26/24	4-4.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
					Horiz	ontal Delinea	ation Samples						
H-1	12/26/24	0-0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
H-2	12/26/24	0-0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
H-3	12/26/24	0-0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	400
H-4	12/26/24	0-0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
H-5	12/26/24	0-0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
H-6	12/26/24	0-0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0

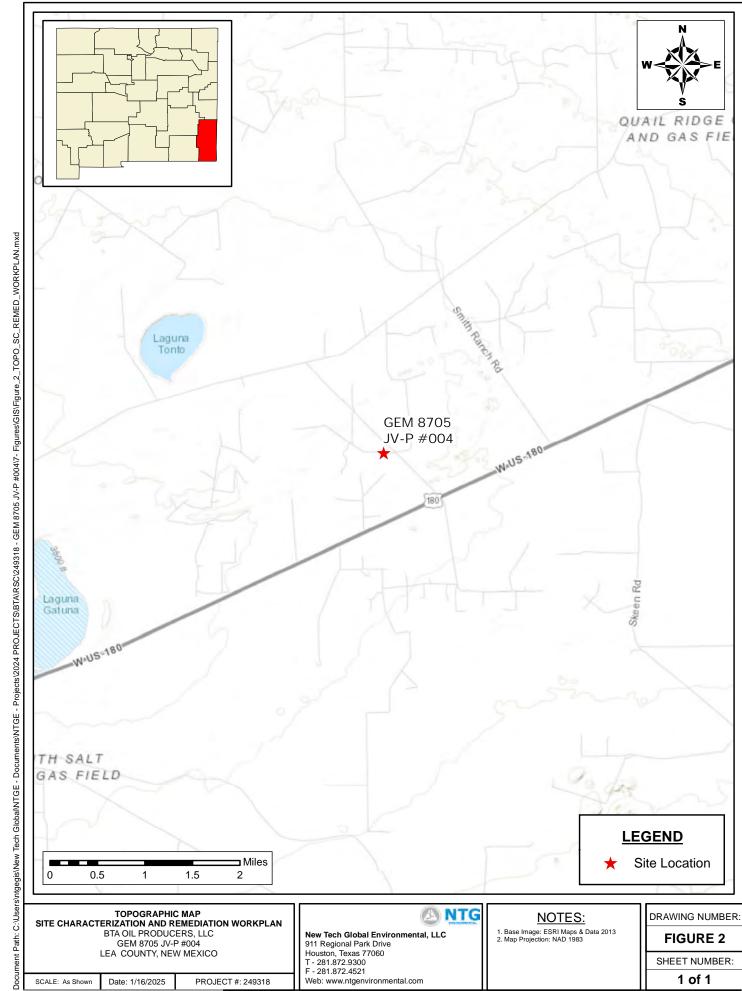
# Notes:

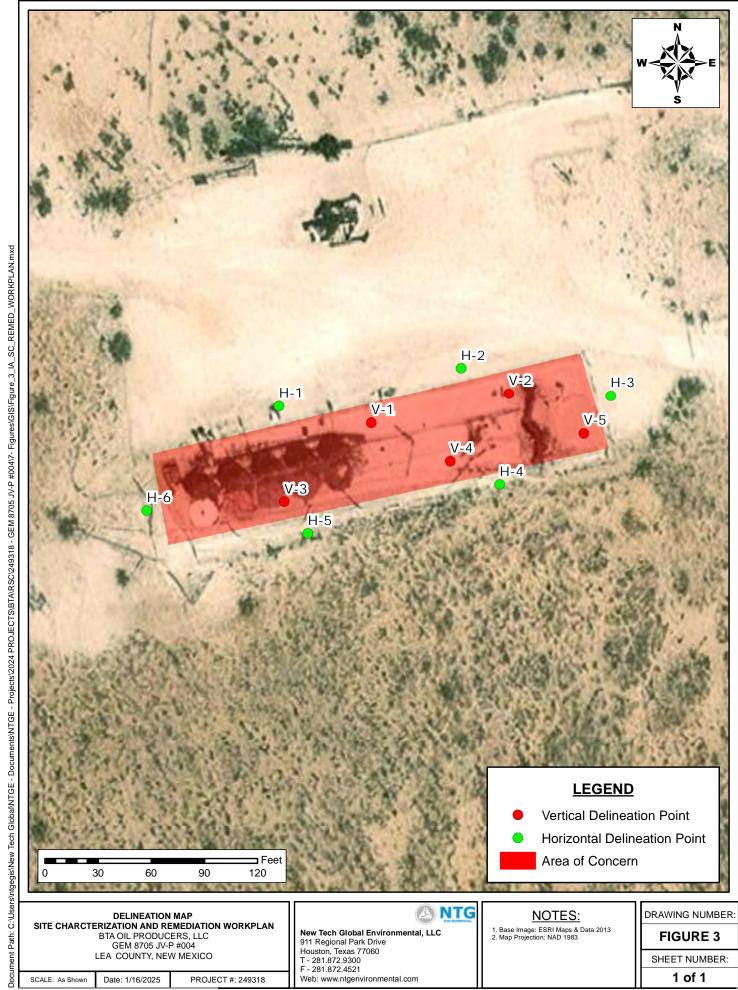
- 1. Values reported in mg/kg
- 2.< = Value Less Than Reporting Limit (RL)
- 3. Bold indicates Analyte Detected
- 4. BTEX analyses by EPA Method SW 8021B
  SP-1 Sample Point Excavated
- 5. TPH analyses by EPA Method SW 8015 Mod.
- 6. GRO/DRO/MRO Gasoline/Diesel/Motor Oil
- 7. Yellow shaded cells indicate 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

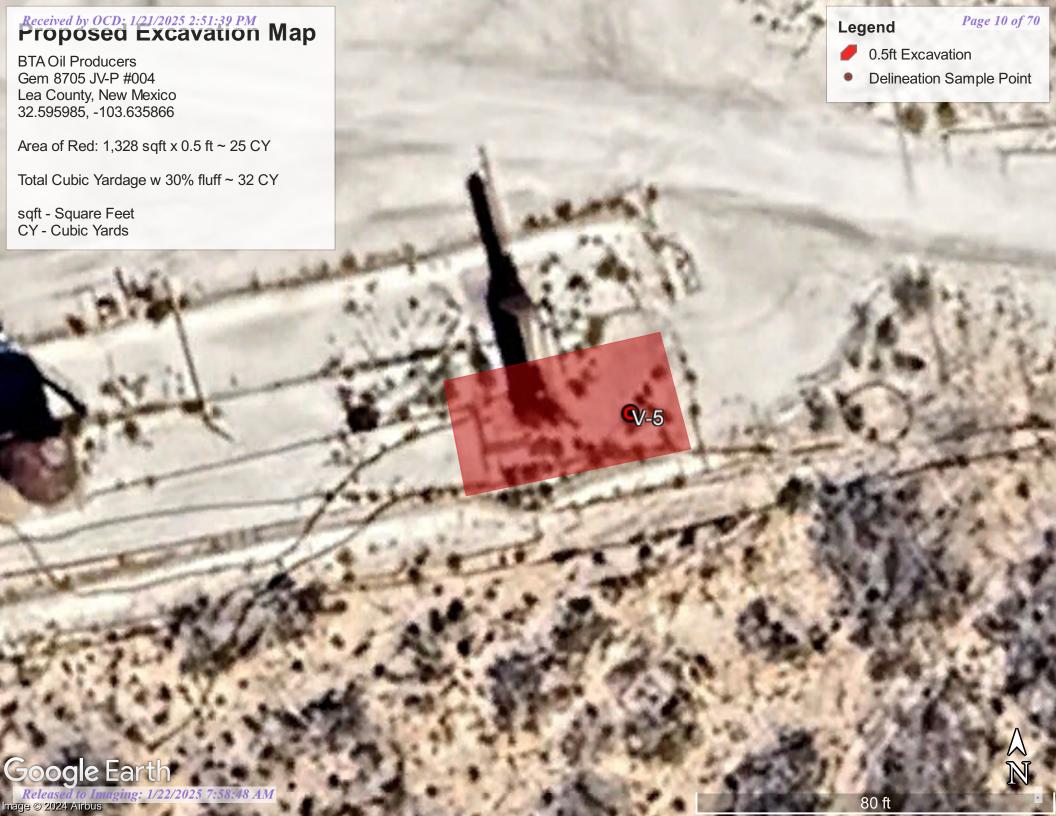
# **Figures**











**Site Characterization Information** 



# **NMOCD Closure Criteria**

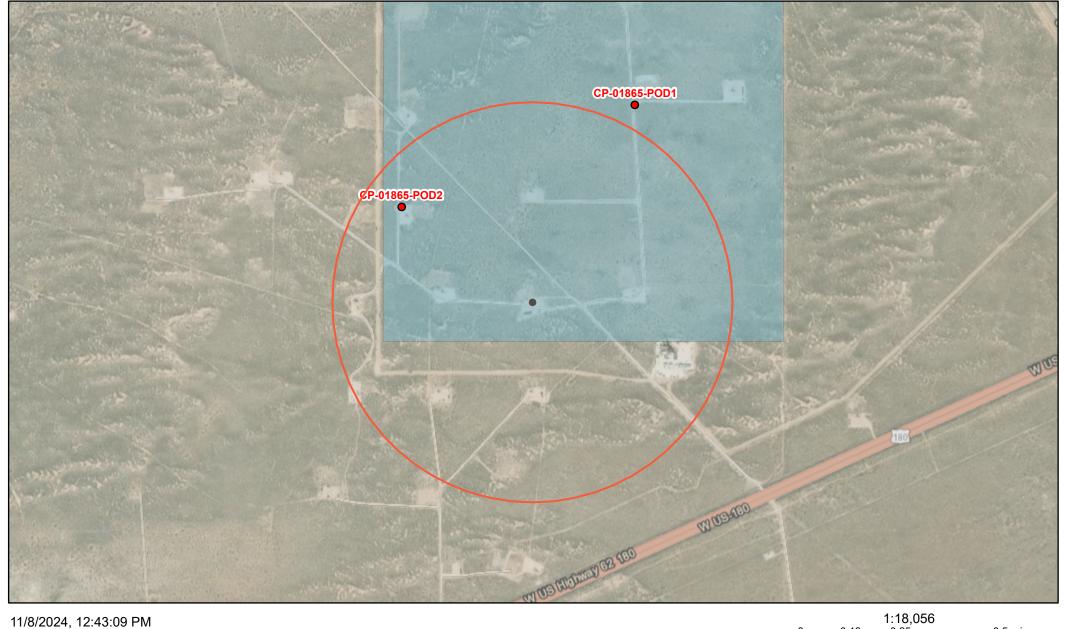
## Gem 8705 JV-P #004

Site Information (19.15.29.11.A (2,3, & 4) NMAC)		Source/Notes								
Depth to Groundwater ( ft bgs)	>105 ft	Office of the State Engineer (OSE)								
Horizontal Distance from All Water Sources Within 0.5 mile (ft)	>.5 Miles	National Wetlands Inventory (NWS)								
Horizontal Distance to Nearest Significant Watercourse (ft)	2.5 Miles	National Wetlands Inventory (NWS)								

Closure Criteria (19.	15.29.12.B(4) a	nd Table 1 NM	AC)			
Don'th to Croundwater (ft)			Clos	sure Criteria (m	g/kg)	
Depth to Groundwater (ft)		Chloride*	TPH	GRO + DRO	BTEX	Benzene
< 50		600	100		50	10
51 - 100		10,000	2,500	1,000	50	10
>100	X	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					
<200 ft from a lakebed, sinkhole, or playa lake?	No	1				
Water Well or Water Source		1				
<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	1				
Human and Other Area		600	100		50	10
<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					

<sup>\* -</sup> numerical limit or background, whichever is greater

# OSE POD Location Map



Override 1 OSE District Boundary New Mexico State Trust Lands

GIS WATERS PODs Water Right Regulations

Both Estates

0 0.13 0.25 0.5 mi

Plugged Closure Area
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PAGE 1 OF 2

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Well

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Map

\* UTM location was derived from PLSS - see⊞elp

Driller

1753

Driller

VANGUARD WELL RESOURCES, LLC

License:

Company:

Driller

FRIESSEN, JACOBOIEL.NER

Name:

Drill

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Drill

2021-02-08

Plug

2021-03-(

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Date:

Date:

Log File

2021-07-22

**PCW Rcv** 

Source:

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**Pump** Type:

Pipe

Discharge

Yield:

Size:

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105

Depth

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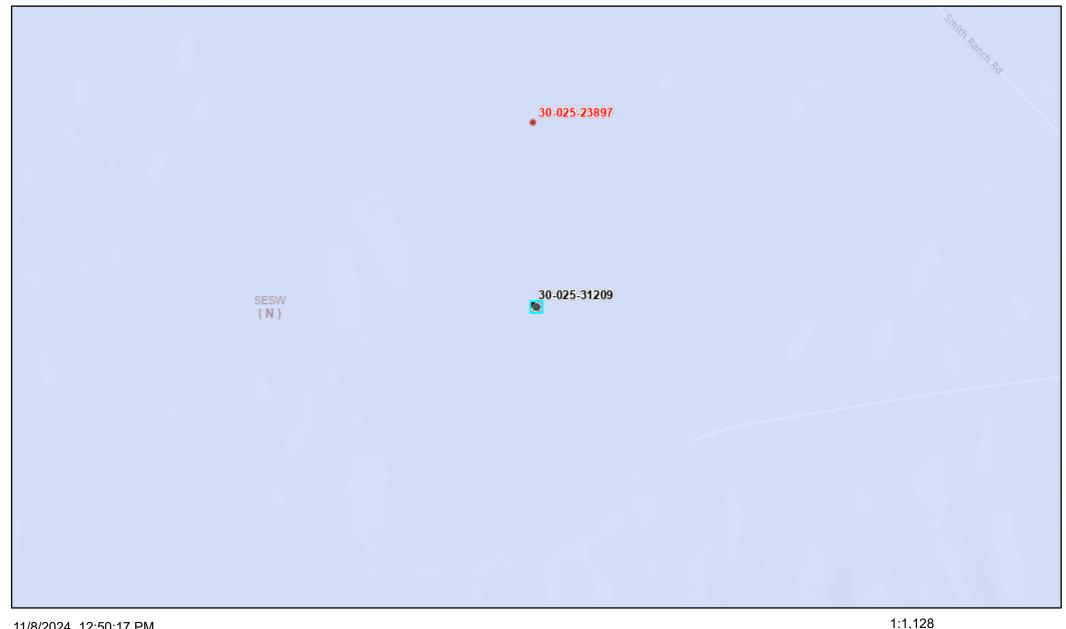
Well:

Released to Imaging: 1/22/2025 7:58:48 AM

The data is furnished by the NMOSE/ISC and isaccepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, Dsability, or suitability for any particular purpose of the data.

11/13/24 10:12 AM MST Point of Diversion Summary

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11/8/2024, 12:50:17 PM

Wells - Large Scale Karst Occurrence Potential



Oil, Active



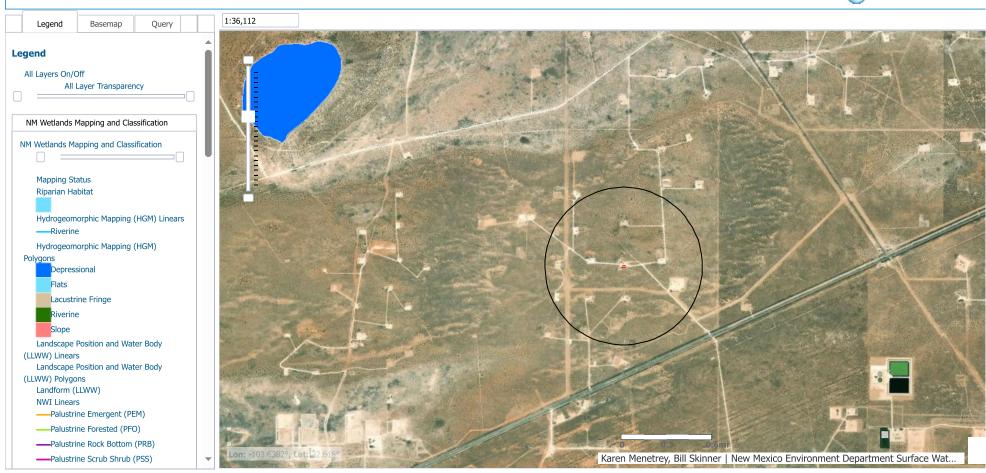
Oil, Plugged L \_ \_ PLSS Second Division

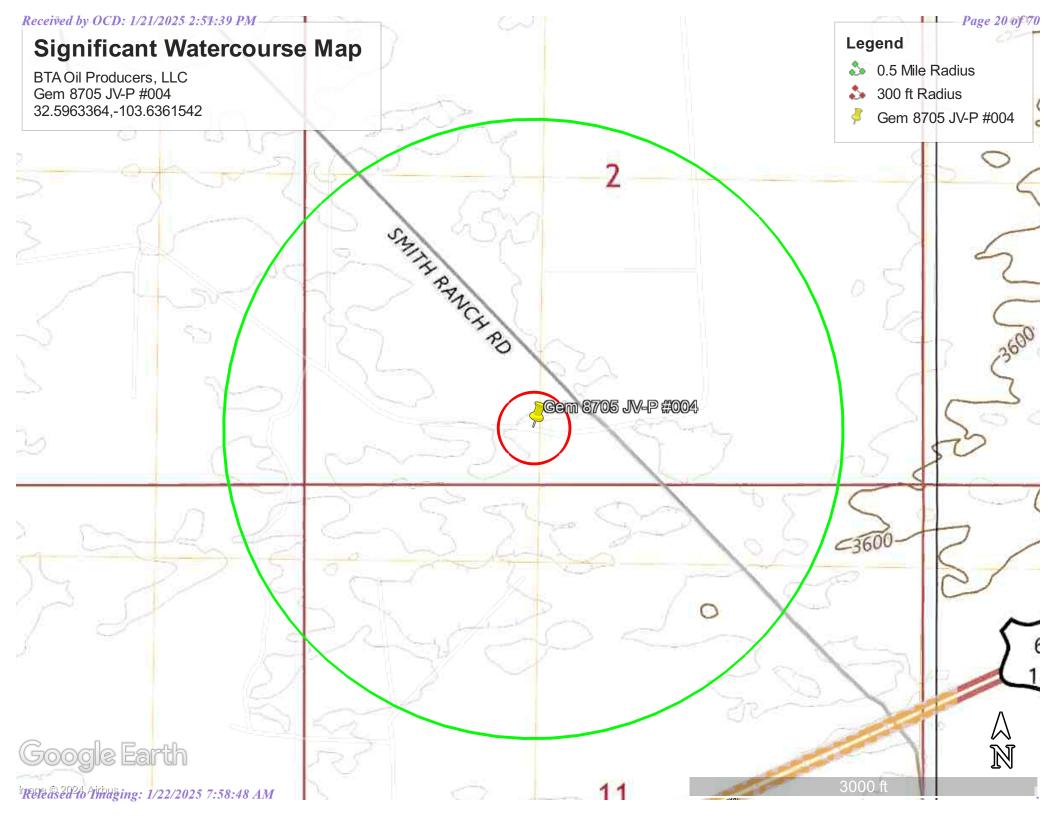
**PLSS First Division** 

0.01 0.01 0.03 mi 0.01 0.03 0.05 km

BLM, OCD, New Mexico Tech, Sources: Esri, Airbus DS, USGS, NGA, NASA, CGIAR, N Robinson, NCEAS, NLS, OS, NMA, Geodatastyrelsen, Rijkswaterstaat, GSA, Geoland, FEMA, Intermap and the GIS user community, OCD, Esri Community Maps Contributors, New Mexico State University, Texas

Received by OCD: 1/21/2025 2:51:39 PM







# Wetlands Map



November 8, 2024

## 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.

ORelease To Imaging: 1/22/2025, 9.98:48 AM

# National Flood Hazard Layer FIRMette





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

Without Base Flood Elevation (BFE) With BFE or Depth Zone AE, AO, AH, VE, AR SPECIAL FLOOD HAZARD AREAS Regulatory Floodway 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 OTHER AREAS OF Area with Flood Risk due to Levee Zone D FLOOD HAZARD NO SCREEN Area of Minimal Flood Hazard Zone X Effective LOMRs OTHER AREAS Area of Undetermined Flood Hazard Zone D - - - Channel, Culvert, or Storm Sewer **GENERAL** STRUCTURES | LILLILL Levee, Dike, or Floodwall 20.2 Cross Sections with 1% Annual Chance 17.5 Water Surface Elevation **Coastal Transect** ₩₩ 513 WW Base Flood Elevation Line (BFE) Limit of Study Jurisdiction Boundary --- Coastal Transect Baseline OTHER **Profile Baseline FEATURES** Hydrographic Feature Digital Data Available No Digital Data Available MAP PANELS 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 11/8/2024 at 6:40 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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



Photographic Log



# PHOTOGRAPHIC LOG

BTA Oil Producers Gem 8705 JV-P #004

# Photograph No. 1

Facility: Gem 8705 JV-P #004

County: Lea County, New Mexico

Description:

View of Initial Assessment Activities



# Photograph No. 2

Facility: Gem 8705 JV-P #004

County: Lea County, New Mexico

**Description:** 

View of Initial Assessment Activities



# Photograph No. 3

Facility: Gem 8705 JV-P #004

County: Lea County, New Mexico

Description:

View of Initial Assessment Activities



# PHOTOGRAPHIC LOG

BTA Oil Producers Gem 8705 JV-P #004

Photograph No. 4

Facility: Gem 8705 JV-P #004

County: Lea County, New Mexico

Description:

View of Initial Assessment Activities



Photograph No. 5

Facility: Gem 8705 JV-P #004

County: Lea County, New Mexico

Description:

View of Initial Assessment Activities



Photograph No. 6

Facility: Gem 8705 JV-P #004

County: Lea County, New Mexico

Description:

View of Initial Assessment Activities



**Laboratory Reports and Chain-of-Custody Documents** 





January 02, 2025

ETHAN SESSUMS

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: GEM 8705 JV - P #004

Enclosed are the results of analyses for samples received by the laboratory on 12/26/24 13:14.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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

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

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



# Analytical Results For:

NTG ENVIRONMENTAL ETHAN SESSUMS 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706

Fax To:

Received: 12/26/2024 Sampling Date: 12/26/2024

Reported: 01/02/2025 Sampling Type: Soil

Project Name: GEM 8705 JV - P #004 Sampling Condition: Cool & Intact Project Number: 249318 Sample Received By: Tamara Oldaker

Project Location: BTA - LEA CO NM

# Sample ID: V - 1 0-6" (H247757-01)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/27/2024	ND	1.84	92.0	2.00	3.48	
Toluene*	<0.050	0.050	12/27/2024	ND	1.78	88.8	2.00	1.38	
Ethylbenzene*	<0.050	0.050	12/27/2024	ND	1.87	93.6	2.00	0.682	
Total Xylenes*	<0.150	0.150	12/27/2024	ND	5.73	95.5	6.00	0.438	
Total BTEX	<0.300	0.300	12/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	12/27/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/27/2024	ND	234	117	200	7.59	
DRO >C10-C28*	<10.0	10.0	12/27/2024	ND	216	108	200	7.01	
EXT DRO >C28-C36	<10.0	10.0	12/27/2024	ND					
Surrogate: 1-Chlorooctane	95.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	111	% 49.1-14	8						

#### Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



# Analytical Results For:

NTG ENVIRONMENTAL ETHAN SESSUMS 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706 Fax To:

Received: 12/26/2024 Sampling Date: 12/26/2024

Reported: 01/02/2025 Sampling Type: Soil

Project Name: GEM 8705 JV - P #004 Sampling Condition: Cool & Intact
Project Number: 249318 Sample Received By: Tamara Oldaker

Project Location: BTA - LEA CO NM

# Sample ID: V - 1 1-1.5' (H247757-02)

BTEX 8021B	mg/kg		Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/27/2024	ND	1.84	92.0	2.00	3.48	
Toluene*	<0.050	0.050	12/27/2024	ND	1.78	88.8	2.00	1.38	
Ethylbenzene*	<0.050	0.050	12/27/2024	ND	1.87	93.6	2.00	0.682	
Total Xylenes*	<0.150	0.150	12/27/2024	ND	5.73	95.5	6.00	0.438	
Total BTEX	<0.300	0.300	12/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500Cl-B mg/kg			Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	12/27/2024	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/27/2024	ND	234	117	200	7.59	
DRO >C10-C28*	<10.0	10.0	12/27/2024	ND	216	108	200	7.01	
EXT DRO >C28-C36	<10.0	10.0	12/27/2024	ND					
Surrogate: 1-Chlorooctane	107	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	127	% 49.1-14	8						

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Celey D. Keene



Tamara Oldaker

Sample Received By:

# Analytical Results For:

NTG ENVIRONMENTAL ETHAN SESSUMS 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706 Fax To:

Received: 12/26/2024 Sampling Date: 12/26/2024

Reported: 01/02/2025 Sampling Type: Soil
Project Name: GEM 8705 JV - P #004 Sampling Condition: Cool & Intact

Project Name: GEM 8705 JV - P #004 Project Number: 249318

Project Location: BTA - LEA CO NM

# Sample ID: V - 1 2-2.5' (H247757-03)

BTEX 8021B	mg/kg		Analyze	Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/27/2024	ND	1.84	92.0	2.00	3.48	
Toluene*	<0.050	0.050	12/27/2024	ND	1.78	88.8	2.00	1.38	
Ethylbenzene*	<0.050	0.050	12/27/2024	ND	1.87	93.6	2.00	0.682	
Total Xylenes*	<0.150	0.150	12/27/2024	ND	5.73	95.5	6.00	0.438	
Total BTEX	<0.300	0.300	12/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112	% 71.5-13	4						
Chloride, SM4500Cl-B mg/kg			Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/27/2024	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/27/2024	ND	234	117	200	7.59	
DRO >C10-C28*	<10.0	10.0	12/27/2024	ND	216	108	200	7.01	
EXT DRO >C28-C36	<10.0	10.0	12/27/2024	ND					
Surrogate: 1-Chlorooctane	109	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	124	% 49.1-14	8						

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Celey & Keene



# Analytical Results For:

NTG ENVIRONMENTAL ETHAN SESSUMS 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706 Fax To:

Applyzod By: 14

Received: 12/26/2024 Reported: 01/02/2025

Project Name: GEM 8705 JV - P #004

Project Number: 249318

Project Location: BTA - LEA CO NM

Sampling Date: 12/26/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

# Sample ID: V - 1 3-3.5' (H247757-04)

RTFY 8021R

BIEX 8021B	mg	/ <b>kg</b>	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/27/2024	ND	1.84	92.0	2.00	3.48	
Toluene*	<0.050	0.050	12/27/2024	ND	1.78	88.8	2.00	1.38	
Ethylbenzene*	<0.050	0.050	12/27/2024	ND	1.87	93.6	2.00	0.682	
Total Xylenes*	<0.150	0.150	12/27/2024	ND	5.73	95.5	6.00	0.438	
Total BTEX	<0.300	0.300	12/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	12/27/2024	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/27/2024	ND	234	117	200	7.59	
DRO >C10-C28*	<10.0	10.0	12/27/2024	ND	216	108	200	7.01	
EXT DRO >C28-C36	<10.0	10.0	12/27/2024	ND					
Surrogate: 1-Chlorooctane	110	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	130	% 49.1-14	8						

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Celey D. Keene



# Analytical Results For:

NTG ENVIRONMENTAL ETHAN SESSUMS 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706 Fax To:

Analyzed By: JH

Received: 12/26/2024 Reported: 01/02/2025

Project Name: GEM 8705 JV - P #004

mg/kg

Project Number: 249318

Project Location: BTA - LEA CO NM

Sampling Date: 12/26/2024

Sampling Type: Soil
Sampling Condition: Cool & Intact

Sample Received By: Tamara Oldaker

# Sample ID: V - 1 4-4.5' (H247757-05)

BTEX 8021B

DILX GOZID	iiig/	, kg	Andryzo	u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/27/2024	ND	1.84	92.0	2.00	3.48	
Toluene*	<0.050	0.050	12/27/2024	ND	1.78	88.8	2.00	1.38	
Ethylbenzene*	<0.050	0.050	12/27/2024	ND	1.87	93.6	2.00	0.682	
Total Xylenes*	<0.150	0.150	12/27/2024	ND	5.73	95.5	6.00	0.438	
Total BTEX	<0.300	0.300	12/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	12/27/2024	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/27/2024	ND	234	117	200	7.59	
DRO >C10-C28*	<10.0	10.0	12/27/2024	ND	216	108	200	7.01	
EXT DRO >C28-C36	<10.0	10.0	12/27/2024	ND					
Surrogate: 1-Chlorooctane	113 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	133	% 49.1-14	8						

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Celey D. Keine



# Analytical Results For:

NTG ENVIRONMENTAL ETHAN SESSUMS 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706 Fax To:

Received: 12/26/2024 Sampling Date: 12/26/2024

Reported: 01/02/2025 Sampling Type: Soil

Project Name: GEM 8705 JV - P #004 Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: 249318

Project Location: BTA - LEA CO NM

# Sample ID: V - 2 0-6" (H247757-06)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/27/2024	ND	1.84	92.0	2.00	3.48	
Toluene*	<0.050	0.050	12/27/2024	ND	1.78	88.8	2.00	1.38	
Ethylbenzene*	<0.050	0.050	12/27/2024	ND	1.87	93.6	2.00	0.682	
Total Xylenes*	<0.150	0.150	12/27/2024	ND	5.73	95.5	6.00	0.438	
Total BTEX	<0.300	0.300	12/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/27/2024	ND	416	104	400	3.77	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/27/2024	ND	234	117	200	7.59	
DRO >C10-C28*	<10.0	10.0	12/27/2024	ND	216	108	200	7.01	
EXT DRO >C28-C36	<10.0	10.0	12/27/2024	ND					
Surrogate: 1-Chlorooctane	105 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	121 9	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



# Analytical Results For:

NTG ENVIRONMENTAL ETHAN SESSUMS 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706 Fax To:

Received: 12/26/2024 Sampling Date: 12/26/2024

Reported: 01/02/2025 Sampling Type: Soil

Project Name: GEM 8705 JV - P #004 Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: 249318

Project Location: BTA - LEA CO NM

# Sample ID: V - 2 1-1.5' (H247757-07)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/27/2024	ND	1.84	92.0	2.00	3.48	
Toluene*	<0.050	0.050	12/27/2024	ND	1.78	88.8	2.00	1.38	
Ethylbenzene*	<0.050	0.050	12/27/2024	ND	1.87	93.6	2.00	0.682	
Total Xylenes*	<0.150	0.150	12/27/2024	ND	5.73	95.5	6.00	0.438	
Total BTEX	<0.300	0.300	12/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 9	71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	12/27/2024	ND	416	104	400	3.77	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/27/2024	ND	234	117	200	7.59	
DRO >C10-C28*	<10.0	10.0	12/27/2024	ND	216	108	200	7.01	
EXT DRO >C28-C36	<10.0	10.0	12/27/2024	ND					
Surrogate: 1-Chlorooctane	106 % 48.2-1.		4						
Surrogate: 1-Chlorooctadecane	125 9	49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



# Analytical Results For:

NTG ENVIRONMENTAL ETHAN SESSUMS 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706 Fax To:

Received: 12/26/2024 Sampling Date: 12/26/2024

Reported: 01/02/2025 Sampling Type: Soil

Project Name: GEM 8705 JV - P #004 Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: 249318

Project Location: BTA - LEA CO NM

# Sample ID: V - 2 2-2.5' (H247757-08)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/27/2024	ND	1.84	92.0	2.00	3.48	
Toluene*	<0.050	0.050	12/27/2024	ND	1.78	88.8	2.00	1.38	
Ethylbenzene*	<0.050	0.050	12/27/2024	ND	1.87	93.6	2.00	0.682	
Total Xylenes*	<0.150	0.150	12/27/2024	ND	5.73	95.5	6.00	0.438	
Total BTEX	<0.300	0.300	12/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 9	71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	12/27/2024	ND	416	104	400	3.77	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/27/2024	ND	234	117	200	7.59	
DRO >C10-C28*	<10.0	10.0	12/27/2024	ND	216	108	200	7.01	
EXT DRO >C28-C36	<10.0	10.0	12/27/2024	ND					
Surrogate: 1-Chlorooctane	112 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	131 9	% 49.1-14	8						

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Celey D. Keene



# Analytical Results For:

NTG ENVIRONMENTAL ETHAN SESSUMS 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706 Fax To:

Received: 12/26/2024 Sampling Date: 12/26/2024

Reported: 01/02/2025 Sampling Type: Soil

Project Name: GEM 8705 JV - P #004 Sampling Condition: Cool & Intact
Project Number: 249318 Sample Received By: Tamara Oldaker

Project Location: BTA - LEA CO NM

# Sample ID: V - 2 3-3.5' (H247757-09)

				Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/27/2024	ND	1.84	92.0	2.00	3.48	
Toluene*	<0.050	0.050	12/27/2024	ND	1.78	88.8	2.00	1.38	
Ethylbenzene*	<0.050	0.050	12/27/2024	ND	1.87	93.6	2.00	0.682	
Total Xylenes*	<0.150	0.150	12/27/2024	ND	5.73	95.5	6.00	0.438	
Total BTEX	<0.300	0.300	12/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/27/2024	ND	416	104	400	3.77	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/27/2024	ND	234	117	200	7.59	
DRO >C10-C28*	<10.0	10.0	12/27/2024	ND	216	108	200	7.01	
EXT DRO >C28-C36	<10.0	10.0	12/27/2024	ND					
Surrogate: 1-Chlorooctane	111 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	127	% 49.1-14	8						

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Celey D. Keene



### Analytical Results For:

NTG ENVIRONMENTAL ETHAN SESSUMS 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706 Fax To:

Received: 12/26/2024 Sampling Date: 12/26/2024

Reported: 01/02/2025 Sampling Type: Soil

Project Name: GEM 8705 JV - P #004 Sampling Condition: Cool & Intact
Project Number: 249318 Sample Received By: Tamara Oldaker

Project Location: BTA - LEA CO NM

### Sample ID: V - 2 4-4.5' (H247757-10)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/27/2024	ND	1.84	92.0	2.00	3.48	
Toluene*	<0.050	0.050	12/27/2024	ND	1.78	88.8	2.00	1.38	
Ethylbenzene*	<0.050	0.050	12/27/2024	ND	1.87	93.6	2.00	0.682	
Total Xylenes*	<0.150	0.150	12/27/2024	ND	5.73	95.5	6.00	0.438	
Total BTEX	<0.300	0.300	12/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/27/2024	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/27/2024	ND	227	113	200	7.79	
DRO >C10-C28*	<10.0	10.0	12/27/2024	ND	217	109	200	6.87	
EXT DRO >C28-C36	<10.0	10.0	12/27/2024	ND					
Surrogate: 1-Chlorooctane	99.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105	% 49.1-14	8						

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### Analytical Results For:

NTG ENVIRONMENTAL ETHAN SESSUMS 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706 Fax To:

Received: 12/26/2024 Sampling Date: 12/26/2024

Reported: 01/02/2025 Sampling Type: Soil

Project Name: GEM 8705 JV - P #004 Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: 249318

Project Location: BTA - LEA CO NM

### Sample ID: V - 3 0-6" (H247757-11)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/27/2024	ND	1.84	92.0	2.00	3.48	
Toluene*	<0.050	0.050	12/27/2024	ND	1.78	88.8	2.00	1.38	
Ethylbenzene*	<0.050	0.050	12/27/2024	ND	1.87	93.6	2.00	0.682	
Total Xylenes*	<0.150	0.150	12/27/2024	ND	5.73	95.5	6.00	0.438	
Total BTEX	<0.300	0.300	12/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	12/27/2024	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/27/2024	ND	227	113	200	7.79	
DRO >C10-C28*	<10.0	10.0	12/27/2024	ND	217	109	200	6.87	
EXT DRO >C28-C36	<10.0	10.0	12/27/2024	ND					
Surrogate: 1-Chlorooctane	85.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.4	% 49.1-14	8						

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Celey D. Keine



### Analytical Results For:

NTG ENVIRONMENTAL ETHAN SESSUMS 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706 Fax To:

Applyzod By: 14

Received: 12/26/2024 Reported: 01/02/2025

GEM 8705 JV - P #004

Project Name: Project Number: 249318

Project Location: BTA - LEA CO NM Sampling Date: 12/26/2024

Sampling Type: Sampling Condition: Cool & Intact

Sample Received By: Tamara Oldaker

Soil

### Sample ID: V - 3 1-1.5' (H247757-12)

RTFY 8021R

BIEX 8021B	mg	/ <b>kg</b>	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/27/2024	ND	1.84	92.0	2.00	3.48	
Toluene*	<0.050	0.050	12/27/2024	ND	1.78	88.8	2.00	1.38	
Ethylbenzene*	<0.050	0.050	12/27/2024	ND	1.87	93.6	2.00	0.682	
Total Xylenes*	<0.150	0.150	12/27/2024	ND	5.73	95.5	6.00	0.438	
Total BTEX	<0.300	0.300	12/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	12/27/2024	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/27/2024	ND	227	113	200	7.79	
DRO >C10-C28*	<10.0	10.0	12/27/2024	ND	217	109	200	6.87	
EXT DRO >C28-C36	<10.0	10.0	12/27/2024	ND					
Surrogate: 1-Chlorooctane	111	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	113	% 49.1-14	8						

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Celey D. Keine



Tamara Oldaker

Sample Received By:

### Analytical Results For:

NTG ENVIRONMENTAL ETHAN SESSUMS 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706 Fax To:

Received: 12/26/2024 Sampling Date: 12/26/2024

Reported: 01/02/2025 Sampling Type: Soil
Project Name: GEM 8705 JV - P #004 Sampling Condition: Cool & Intact

Project Number: 249318

Project Location: BTA - LEA CO NM

### Sample ID: V - 3 2-2.5' (H247757-13)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/27/2024	ND	1.84	92.0	2.00	3.48	
Toluene*	<0.050	0.050	12/27/2024	ND	1.78	88.8	2.00	1.38	
Ethylbenzene*	<0.050	0.050	12/27/2024	ND	1.87	93.6	2.00	0.682	
Total Xylenes*	<0.150	0.150	12/27/2024	ND	5.73	95.5	6.00	0.438	
Total BTEX	<0.300	0.300	12/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	12/27/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/27/2024	ND	227	113	200	7.79	
DRO >C10-C28*	<10.0	10.0	12/27/2024	ND	217	109	200	6.87	
EXT DRO >C28-C36	<10.0	10.0	12/27/2024	ND					
Surrogate: 1-Chlorooctane	115 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	118 9	% 49.1-14	8						

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### Analytical Results For:

NTG ENVIRONMENTAL ETHAN SESSUMS 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706 Fax To:

Received: 12/26/2024

Reported: 01/02/2025

Project Name: GEM 8705 JV - P #004

Project Number: 249318

Project Location: BTA - LEA CO NM Sampling Date: 12/26/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By:

Tamara Oldaker

### Sample ID: V - 3 3-3.5' (H247757-14)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/27/2024	ND	1.84	92.0	2.00	3.48	
Toluene*	<0.050	0.050	12/27/2024	ND	1.78	88.8	2.00	1.38	
Ethylbenzene*	<0.050	0.050	12/27/2024	ND	1.87	93.6	2.00	0.682	
Total Xylenes*	<0.150	0.150	12/27/2024	ND	5.73	95.5	6.00	0.438	
Total BTEX	<0.300	0.300	12/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	115	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	12/27/2024	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/27/2024	ND	227	113	200	7.79	
DRO >C10-C28*	60.6	10.0	12/27/2024	ND	217	109	200	6.87	
EXT DRO >C28-C36	38.8	10.0	12/27/2024	ND					
Surrogate: 1-Chlorooctane	97.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103	% 49.1-14	8						

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

NTG ENVIRONMENTAL ETHAN SESSUMS 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706 Fax To:

Received: 12/26/2024 Sampling Date: 12/26/2024

Reported: 01/02/2025 Sampling Type: Soil

Project Name: GEM 8705 JV - P #004 Sampling Condition: Cool & Intact Sample Received By: Project Number: 249318 Tamara Oldaker

Project Location: BTA - LEA CO NM

### Sample ID: V - 3 4-4.5' (H247757-15)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/27/2024	ND	1.94	96.9	2.00	4.47	
Toluene*	<0.050	0.050	12/27/2024	ND	2.00	100	2.00	4.63	
Ethylbenzene*	<0.050	0.050	12/27/2024	ND	1.94	97.1	2.00	4.75	
Total Xylenes*	<0.150	0.150	12/27/2024	ND	5.71	95.1	6.00	4.56	
Total BTEX	<0.300	0.300	12/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.5	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	12/27/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/27/2024	ND	227	113	200	7.79	
DRO >C10-C28*	<10.0	10.0	12/27/2024	ND	217	109	200	6.87	
EXT DRO >C28-C36	<10.0	10.0	12/27/2024	ND					
Surrogate: 1-Chlorooctane	101 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103 9	% 49.1-14	8						

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### Analytical Results For:

NTG ENVIRONMENTAL ETHAN SESSUMS 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706 Fax To:

Received: 12/26/2024 Sampling Date: 12/26/2024

Reported: 01/02/2025 Sampling Type: Soil

Project Name: GEM 8705 JV - P #004 Sampling Condition: Cool & Intact
Project Number: 249318 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: BTA - LEA CO NM

mg/kg

### Sample ID: V - 4 0-6" (H247757-16)

BTEX 8021B

DILX GOZID	ıııg,	, kg	Andryzo	u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/27/2024	ND	1.94	96.9	2.00	4.47	
Toluene*	<0.050	0.050	12/27/2024	ND	2.00	100	2.00	4.63	
Ethylbenzene*	<0.050	0.050	12/27/2024	ND	1.94	97.1	2.00	4.75	
Total Xylenes*	<0.150	0.150	12/27/2024	ND	5.71	95.1	6.00	4.56	
Total BTEX	<0.300	0.300	12/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.2	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	12/27/2024	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/27/2024	ND	227	113	200	7.79	
DRO >C10-C28*	<10.0	10.0	12/27/2024	ND	217	109	200	6.87	
EXT DRO >C28-C36	<10.0	10.0	12/27/2024	ND					
Surrogate: 1-Chlorooctane	104	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106	% 49.1-14	8						

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### Analytical Results For:

NTG ENVIRONMENTAL ETHAN SESSUMS 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706 Fax To:

Applyzod By: 14

Received: 12/26/2024 Reported: 01/02/2025

Project Name: GEM 8705 JV - P #004

Project Number: 249318

Project Location: BTA - LEA CO NM

Sampling Date: 12/26/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: V - 4 1-1.5' (H247757-17)

RTFY 8021R

BIEX 8021B	mg	/ <b>kg</b>	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/27/2024	ND	1.94	96.9	2.00	4.47	
Toluene*	<0.050	0.050	12/27/2024	ND	2.00	100	2.00	4.63	
Ethylbenzene*	<0.050	0.050	12/27/2024	ND	1.94	97.1	2.00	4.75	
Total Xylenes*	<0.150	0.150	12/27/2024	ND	5.71	95.1	6.00	4.56	
Total BTEX	<0.300	0.300	12/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.8	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	12/27/2024	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/27/2024	ND	227	113	200	7.79	
DRO >C10-C28*	<10.0	10.0	12/27/2024	ND	217	109	200	6.87	
EXT DRO >C28-C36	<10.0	10.0	12/27/2024	ND					
Surrogate: 1-Chlorooctane	99.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105	% 49.1-14	8						

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### Analytical Results For:

NTG ENVIRONMENTAL ETHAN SESSUMS 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706 Fax To:

Received: 12/26/2024 Sampling Date: 12/26/2024

Reported: 01/02/2025 Sampling Type: Soil

Project Name: GEM 8705 JV - P #004 Sampling Condition: Cool & Intact
Project Number: 249318 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: BTA - LEA CO NM

### Sample ID: V - 4 2-2.5' (H247757-18)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/27/2024	ND	1.94	96.9	2.00	4.47	
Toluene*	<0.050	0.050	12/27/2024	ND	2.00	100	2.00	4.63	
Ethylbenzene*	<0.050	0.050	12/27/2024	ND	1.94	97.1	2.00	4.75	
Total Xylenes*	<0.150	0.150	12/27/2024	ND	5.71	95.1	6.00	4.56	
Total BTEX	<0.300	0.300	12/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.2	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	12/27/2024	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/27/2024	ND	227	113	200	7.79	
DRO >C10-C28*	16.3	10.0	12/27/2024	ND	217	109	200	6.87	
EXT DRO >C28-C36	<10.0	10.0	12/27/2024	ND					
Surrogate: 1-Chlorooctane	93.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.4	% 49.1-14	8						

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### Analytical Results For:

NTG ENVIRONMENTAL ETHAN SESSUMS 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706 Fax To:

Received: 12/26/2024 Sampling Date: 12/26/2024

Reported: 01/02/2025 Sampling Type: Soil

Project Name: GEM 8705 JV - P #004 Sampling Condition: Cool & Intact
Project Number: 249318 Sample Received By: Tamara Oldaker

Project Location: BTA - LEA CO NM

### Sample ID: V - 4 3-3.5' (H247757-19)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/27/2024	ND	1.94	96.9	2.00	4.47	
Toluene*	<0.050	0.050	12/27/2024	ND	2.00	100	2.00	4.63	
Ethylbenzene*	<0.050	0.050	12/27/2024	ND	1.94	97.1	2.00	4.75	
Total Xylenes*	<0.150	0.150	12/27/2024	ND	5.71	95.1	6.00	4.56	
Total BTEX	<0.300	0.300	12/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.6	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/27/2024	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/27/2024	ND	227	113	200	7.79	
DRO >C10-C28*	<10.0	10.0	12/27/2024	ND	217	109	200	6.87	
EXT DRO >C28-C36	<10.0	10.0	12/27/2024	ND					
Surrogate: 1-Chlorooctane	106	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108	% 49.1-14	8						

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### Analytical Results For:

NTG ENVIRONMENTAL ETHAN SESSUMS 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706 Fax To:

Received: 12/26/2024 Sampling Date: 12/26/2024

Reported: 01/02/2025 Sampling Type: Soil

Project Name: GEM 8705 JV - P #004 Sampling Condition: Cool & Intact Sample Received By: Project Number: 249318 Tamara Oldaker

Project Location: BTA - LEA CO NM

### Sample ID: V - 4 4-4.5' (H247757-20)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/27/2024	ND	1.94	96.9	2.00	4.47	
Toluene*	<0.050	0.050	12/27/2024	ND	2.00	100	2.00	4.63	
Ethylbenzene*	<0.050	0.050	12/27/2024	ND	1.94	97.1	2.00	4.75	
Total Xylenes*	<0.150	0.150	12/27/2024	ND	5.71	95.1	6.00	4.56	
Total BTEX	<0.300	0.300	12/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.7	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	12/27/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/27/2024	ND	227	113	200	7.79	
DRO >C10-C28*	<10.0	10.0	12/27/2024	ND	217	109	200	6.87	
EXT DRO >C28-C36	<10.0	10.0	12/27/2024	ND					
Surrogate: 1-Chlorooctane	97.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.8	% 49.1-14	8						

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### Analytical Results For:

NTG ENVIRONMENTAL ETHAN SESSUMS 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706 Fax To:

Received: 12/26/2024 Reported: 01/02/2025

GEM 8705 JV - P #004

Project Name: Project Number: 249318

Project Location: BTA - LEA CO NM Sampling Date: 12/26/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

### Sample ID: V - 5 0-6" (H247757-21)

BTEX 8021B	mg,	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/27/2024	ND	1.94	96.9	2.00	4.47	
Toluene*	<0.050	0.050	12/27/2024	ND	2.00	100	2.00	4.63	
Ethylbenzene*	<0.050	0.050	12/27/2024	ND	1.94	97.1	2.00	4.75	
Total Xylenes*	<0.150	0.150	12/27/2024	ND	5.71	95.1	6.00	4.56	
Total BTEX	<0.300	0.300	12/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.1	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3080	16.0	12/27/2024	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/27/2024	ND	227	113	200	7.79	
DRO >C10-C28*	157	10.0	12/27/2024	ND	217	109	200	6.87	
EXT DRO >C28-C36	97.9	10.0	12/27/2024	ND					
Surrogate: 1-Chlorooctane	87.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.6	% 49.1-14	8						

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### Analytical Results For:

NTG ENVIRONMENTAL ETHAN SESSUMS 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706 Fax To:

Received: 12/26/2024 Sampling Date: 12/26/2024

Reported: 01/02/2025 Sampling Type: Soil

Project Name: GEM 8705 JV - P #004 Sampling Condition: Cool & Intact
Project Number: 249318 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: BTA - LEA CO NM

### Sample ID: V - 5 1-1.5' (H247757-22)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/27/2024	ND	1.94	96.9	2.00	4.47	
Toluene*	<0.050	0.050	12/27/2024	ND	2.00	100	2.00	4.63	
Ethylbenzene*	<0.050	0.050	12/27/2024	ND	1.94	97.1	2.00	4.75	
Total Xylenes*	<0.150	0.150	12/27/2024	ND	5.71	95.1	6.00	4.56	
Total BTEX	<0.300	0.300	12/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.3	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/27/2024	ND	400	100	400	7.69	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/27/2024	ND	227	113	200	7.79	
DRO >C10-C28*	<10.0	10.0	12/27/2024	ND	217	109	200	6.87	
EXT DRO >C28-C36	<10.0	10.0	12/27/2024	ND					
Surrogate: 1-Chlorooctane	112	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	121	% 49.1-14	8						

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### Analytical Results For:

NTG ENVIRONMENTAL ETHAN SESSUMS 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706 Fax To:

Received: 12/26/2024 Sampling Date: 12/26/2024

Reported: 01/02/2025 Sampling Type: Soil

Project Name: GEM 8705 JV - P #004 Sampling Condition: Cool & Intact
Project Number: 249318 Sample Received By: Tamara Oldaker

Project Location: BTA - LEA CO NM

### Sample ID: V - 5 2-2.5' (H247757-23)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/27/2024	ND	1.94	96.9	2.00	4.47	
Toluene*	<0.050	0.050	12/27/2024	ND	2.00	100	2.00	4.63	
Ethylbenzene*	<0.050	0.050	12/27/2024	ND	1.94	97.1	2.00	4.75	
Total Xylenes*	<0.150	0.150	12/27/2024	ND	5.71	95.1	6.00	4.56	
Total BTEX	<0.300	0.300	12/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.4	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/27/2024	ND	400	100	400	7.69	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/27/2024	ND	227	113	200	7.79	
DRO >C10-C28*	<10.0	10.0	12/27/2024	ND	217	109	200	6.87	
EXT DRO >C28-C36	<10.0	10.0	12/27/2024	ND					
Surrogate: 1-Chlorooctane	108	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	109	% 49.1-14	8						

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### Analytical Results For:

NTG ENVIRONMENTAL ETHAN SESSUMS 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706 Fax To:

Received: 12/26/2024 Sampling Date: 12/26/2024

Reported: 01/02/2025 Sampling Type: Soil

Project Name: GEM 8705 JV - P #004 Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: 249318

Project Location: BTA - LEA CO NM

### Sample ID: V - 5 3-3.5' (H247757-24)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/27/2024	ND	1.94	96.9	2.00	4.47	
Toluene*	<0.050	0.050	12/27/2024	ND	2.00	100	2.00	4.63	
Ethylbenzene*	<0.050	0.050	12/27/2024	ND	1.94	97.1	2.00	4.75	
Total Xylenes*	<0.150	0.150	12/27/2024	ND	5.71	95.1	6.00	4.56	
Total BTEX	<0.300	0.300	12/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.4	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	12/27/2024	ND	400	100	400	7.69	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/27/2024	ND	227	113	200	7.79	
DRO >C10-C28*	<10.0	10.0	12/27/2024	ND	217	109	200	6.87	
EXT DRO >C28-C36	<10.0	10.0	12/27/2024	ND					
Surrogate: 1-Chlorooctane	102 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106	% 49.1-14	8						

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Celey D. Keine



### Analytical Results For:

NTG ENVIRONMENTAL ETHAN SESSUMS 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706 Fax To:

Received: 12/26/2024 Sampling Date: 12/26/2024

Reported: 01/02/2025 Sampling Type: Soil

Project Name: GEM 8705 JV - P #004 Sampling Condition: Cool & Intact
Project Number: 249318 Sample Received By: Tamara Oldaker

Project Location: BTA - LEA CO NM

### Sample ID: V - 5 4-4.5' (H247757-25)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/27/2024	ND	1.94	96.9	2.00	4.47	
Toluene*	<0.050	0.050	12/27/2024	ND	2.00	100	2.00	4.63	
Ethylbenzene*	<0.050	0.050	12/27/2024	ND	1.94	97.1	2.00	4.75	
Total Xylenes*	<0.150	0.150	12/27/2024	ND	5.71	95.1	6.00	4.56	
Total BTEX	<0.300	0.300	12/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.6	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/27/2024	ND	400	100	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/27/2024	ND	227	113	200	7.79	
DRO >C10-C28*	<10.0	10.0	12/27/2024	ND	217	109	200	6.87	
EXT DRO >C28-C36	<10.0	10.0	12/27/2024	ND					
Surrogate: 1-Chlorooctane	110 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	111 9	% 49.1-14	8						

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### Analytical Results For:

NTG ENVIRONMENTAL ETHAN SESSUMS 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706 Fax To:

Applyzod By: 14

Received: 12/26/2024 Reported: 01/02/2025

GEM 8705 JV - P #004

ma/ka

Project Name: GEM 8705 J Project Number: 249318

Project Location: BTA - LEA CO NM

Sampling Date: 12/26/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: H - 1 0-6" (H247757-26)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/27/2024	ND	1.94	96.9	2.00	4.47	
Toluene*	<0.050	0.050	12/27/2024	ND	2.00	100	2.00	4.63	
Ethylbenzene*	<0.050	0.050	12/27/2024	ND	1.94	97.1	2.00	4.75	
Total Xylenes*	<0.150	0.150	12/27/2024	ND	5.71	95.1	6.00	4.56	
Total BTEX	<0.300	0.300	12/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.1	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	12/27/2024	ND	400	100	400	7.69	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/27/2024	ND	227	113	200	7.79	
DRO >C10-C28*	<10.0	10.0	12/27/2024	ND	217	109	200	6.87	
EXT DRO >C28-C36	<10.0	10.0	12/27/2024	ND					
Surrogate: 1-Chlorooctane	101	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101	% 49.1-14	8						

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### Analytical Results For:

NTG ENVIRONMENTAL ETHAN SESSUMS 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706 Fax To:

Analyzed By: JH

Received: 12/26/2024 Reported: 01/02/2025

mg/kg

249318

Project Name: GEM 8705 JV - P #004

Project Location: BTA - LEA CO NM Sampling Date: 12/26/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

### Sample ID: H - 2 0-6" (H247757-27)

Project Number:

BTEX 8021B

DILX GOZID	ıııg,	, kg	Andryzo	u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/27/2024	ND	1.94	96.9	2.00	4.47	
Toluene*	<0.050	0.050	12/27/2024	ND	2.00	100	2.00	4.63	
Ethylbenzene*	<0.050	0.050	12/27/2024	ND	1.94	97.1	2.00	4.75	
Total Xylenes*	<0.150	0.150	12/27/2024	ND	5.71	95.1	6.00	4.56	
Total BTEX	<0.300	0.300	12/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.2	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	12/27/2024	ND	400	100	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/27/2024	ND	227	113	200	7.79	
DRO >C10-C28*	<10.0	10.0	12/27/2024	ND	217	109	200	6.87	
EXT DRO >C28-C36	<10.0	10.0	12/27/2024	ND					
Surrogate: 1-Chlorooctane	87.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.3	% 49.1-14	8						

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### Analytical Results For:

NTG ENVIRONMENTAL ETHAN SESSUMS 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706 Fax To:

Received: 12/26/2024 Sampling Date: 12/26/2024

Reported: 01/02/2025 Sampling Type: Soil

Project Name: GEM 8705 JV - P #004 Sampling Condition: Cool & Intact Project Number: Sample Received By: 249318 Tamara Oldaker

Project Location: BTA - LEA CO NM

### Sample ID: H - 3 0-6" (H247757-28)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/27/2024	ND	1.94	96.9	2.00	4.47	
Toluene*	<0.050	0.050	12/27/2024	ND	2.00	100	2.00	4.63	
Ethylbenzene*	<0.050	0.050	12/27/2024	ND	1.94	97.1	2.00	4.75	
Total Xylenes*	<0.150	0.150	12/27/2024	ND	5.71	95.1	6.00	4.56	
Total BTEX	<0.300	0.300	12/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	12/27/2024	ND	400	100	400	7.69	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/27/2024	ND	227	113	200	7.79	
DRO >C10-C28*	<10.0	10.0	12/27/2024	ND	217	109	200	6.87	
EXT DRO >C28-C36	<10.0	10.0	12/27/2024	ND					
Surrogate: 1-Chlorooctane	106 %	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107 9	% 49.1-14	8						

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### Analytical Results For:

NTG ENVIRONMENTAL ETHAN SESSUMS 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706 Fax To:

Received: 12/26/2024 Sampling Date: 12/26/2024

Reported: 01/02/2025 Sampling Type: Soil

Project Name: GEM 8705 JV - P #004 Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: 249318

Project Location: BTA - LEA CO NM

### Sample ID: H - 4 0-6" (H247757-29)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/27/2024	ND	1.94	96.9	2.00	4.47	
Toluene*	<0.050	0.050	12/27/2024	ND	2.00	100	2.00	4.63	
Ethylbenzene*	<0.050	0.050	12/27/2024	ND	1.94	97.1	2.00	4.75	
Total Xylenes*	<0.150	0.150	12/27/2024	ND	5.71	95.1	6.00	4.56	
Total BTEX	<0.300	0.300	12/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.0	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/27/2024	ND	400	100	400	7.69	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/27/2024	ND	227	113	200	7.79	
DRO >C10-C28*	<10.0	10.0	12/27/2024	ND	217	109	200	6.87	
EXT DRO >C28-C36	<10.0	10.0	12/27/2024	ND					
Surrogate: 1-Chlorooctane	107 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	109 9	% 49.1-14	8						

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### Analytical Results For:

NTG ENVIRONMENTAL ETHAN SESSUMS 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706 Fax To:

Received: 12/26/2024 Sampling Date: 12/26/2024

Reported: 01/02/2025 Sampling Type: Soil

Project Name: GEM 8705 JV - P #004 Sampling Condition: Cool & Intact
Project Number: 249318 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: BTA - LEA CO NM

ma/ka

### Sample ID: H - 5 0-6" (H247757-30)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/27/2024	ND	1.94	96.9	2.00	4.47	
Toluene*	<0.050	0.050	12/27/2024	ND	2.00	100	2.00	4.63	
Ethylbenzene*	<0.050	0.050	12/27/2024	ND	1.94	97.1	2.00	4.75	
Total Xylenes*	<0.150	0.150	12/27/2024	ND	5.71	95.1	6.00	4.56	
Total BTEX	<0.300	0.300	12/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.6	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/27/2024	ND	400	100	400	7.69	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/27/2024	ND	245	122	200	7.89	
DRO >C10-C28*	<10.0	10.0	12/27/2024	ND	224	112	200	6.46	
EXT DRO >C28-C36	<10.0	10.0	12/27/2024	ND					
Surrogate: 1-Chlorooctane	87.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	78.3	% 49.1-14	8						

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### Analytical Results For:

NTG ENVIRONMENTAL ETHAN SESSUMS 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706 Fax To:

12/26/2024

Reported: 01/02/2025

Project Name: GEM 8705 JV - P #004

Project Number: 249318

Project Location: BTA - LEA CO NM Sampling Date: 12/26/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact

Sample Received By: Tamara Oldaker

### Sample ID: H - 6 0-6" (H247757-31)

Received:

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/27/2024	ND	1.94	96.9	2.00	4.47	
Toluene*	<0.050	0.050	12/27/2024	ND	2.00	100	2.00	4.63	
Ethylbenzene*	<0.050	0.050	12/27/2024	ND	1.94	97.1	2.00	4.75	
Total Xylenes*	<0.150	0.150	12/27/2024	ND	5.71	95.1	6.00	4.56	
Total BTEX	<0.300	0.300	12/27/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.6	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/27/2024	ND	400	100	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/27/2024	ND	245	122	200	7.89	
DRO >C10-C28*	<10.0	10.0	12/27/2024	ND	224	112	200	6.46	
EXT DRO >C28-C36	<10.0	10.0	12/27/2024	ND					
Surrogate: 1-Chlorooctane	84.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	75.8	% 49.1-14	8						

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### **Notes and Definitions**

The surrogate recovery is outside of lab established statistical control limits but still within method limits. Data is not adversely S-05

affected.

Analyte NOT DETECTED at or above the reporting limit ND

RPD Relative Percent Difference

Samples not received at proper temperature of 6°C or below.

Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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5	ω	_	Re	of Xeno	Notice:			3	200	2	16	20	N-	4	·iC	el		lde	Total (	Sampl	Cooler	Receiv	SAMI	PO #:	Sample	Project	Project	Project	Phone:	City, S.	Address:	Compa	Project		(h		
		100	Relinquished by:	co. A minimum o	Signature of thi	Addit	A 4 4 1 1	V-2	V-2	V-2	V-2	V-2	V-1	V-1	V-1	V-1	V-1	Sample Identification	Total Containers:	Sample Custody Seals:	Cooler Custody Seals:	Received Intact:	SAMPLE RECEIPT		Sampler's Name:	Project Location	Project Number:	Project Name:		City, State ZIP:	šS:	Company Name:	Project Manager:				
		An	y: (Signature)	of Service. Jenico will be liable only for the cost of samples and small for sample submitted to Xenco, but not analyzed. These terms will be enf	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It	Additional Comments:	Common	4-4.5	3-3.5	2-2.5	1-1.5	0-6"	4-4.5	3-3.5	2-2.5	1-1.5	0-6"	Depth (ft bgs)		als: Yes	s: Yes	(X)				Lea		Gem 8	432-701-2159	Carlsbad, New Mexico, 88220	209 W. McKay St.	NTG Environmental	Etnan Sessums	2	ENVIRONMENT.		
				be applied to each	quishment of sam	IS:	fe:    -	12/26/2024	12/26/2024	12/26/2024	12/26/2024	12/26/2024	12/26/2024	12/26/2024	12/26/2024	12/26/2024	12/26/2024	Date	3	No (NIA)	No (N/A)	Yes) No	Temp Blank:		Nick Hart	Lea County, NM	249318	Gem 8705 JV-P #004		Mexico, 8822	St.	ental	S		F		
		Meta	Received	project and a	ples constitut													Time	Corrected	Temperature Reading:	Correction Factor:	Thermometer ID:	Yes (NO) Wet Ice					4		0							
		Me	Received by: (Signature)	charge of \$5 for	es a valid purcha			×	×	×	×	×	×	×	×	×	×	Soil	Corrected Temperature:	re Reading:	Factor:	er ID:	Wet Ice:	lab, if rece	TAT starts the day received by the	Due Date:	Routine	Turr	Email:								
(		West .	wre)	each sample si	ase order from												_	Water	0.7	2,0	-0,6	140	(Yes) N	ived by 4:30pn	day received b		Rush	Turn Around	esessums@ntglobal.com	City, State ZIP:	Address:	Company Name	DIII to. (ii dinerent)	Bill to: /# diffe			
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			ture)														$\dagger$	San	NaCilio	NaOH+Ascorbic Acid	Zn Acetate±NaO	Na SO : NaSO	H <sub>3</sub> PO <sub>4</sub> : HP	H <sub>2</sub> SU <sub>4</sub> : H <sub>2</sub>	HCL: HC	Cool: Cool	None: NO	Pres		Г		prownielas	ofiolds	Work Order Comments	Page	Ho	
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2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			Date/Time															Sample Comments	Naci Proscoloro Acid. Oni o	rid: SAPC	70			NaUH: Na	HNO3: HN	MeOH: Me	DI Water: H <sub>2</sub> O	Preservative Codes			I aval V	_uperiuru _	inerfund		of r	757	

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# Chain of Custody



City, State ZIP:

Carlsbad, New Mexico, 88220

City, State ZIP:

Reporting:Level II Level III ST/UST

RRP

☐ Level IV ☐

State of Project:

Program: UST/PST PRP Brownfields RRC

uperfund

Work Order Comments

Page

으

Company Name: Bill to: (if different)

BTA Oil Producers Ray Ramos

Company Name:

NTG Environmental

209 W. McKay St.

Phone:	432-701-2159	×		Email:	Email: esessums@ntglobal.com	ntglobal.c	mo			i.				Delive	rables	Deliverables: EDD			ADa		PT	ADaPT Other:
Project Name:	Gem 8	Gem 8705 JV-P #004	4	Turn	Turn Around						A	NALYSIS REQUEST	SREC	UEST								Preservative Codes
Project Number:		249318		✓ Routine	Rush	Pres.	9 7	$\dashv$	24		$\dashv$	$\dashv$	$\exists$				7		$\neg$		z	None: NO
Project Location	Lea	Lea County, NM		Due Date:				$\exists$	21e		$\dashv$	$\dashv$	$\exists$					$\neg$	$\neg$		$\perp$	Cool: Cool
Sampler's Name:		Nick Hart		TAT starts the day received by the	ay received by t	he		_	00	_	_	_									I	HCL: HC
PO #:				lab, if receiv	lab, if received by 4:30pm				45			_									I :	H <sub>2</sub> S0.: H <sub>2</sub>
SAMPLE RECEIPT		Temp Blank:	Yes Mo	Wet Ice:	Yes No	eter	5	В	0.0												I	H <sub>2</sub> PO <sub>4</sub> : HP
Received Intact:		No No		ter ID:	1	ram	8015	8021	e <b>30</b>			_							D			
Cooler Custody Seals	: Yes	No NIA	Correction Factor	Factor:	- D.60		PH	EX	orid										ноі		Z	Na,S,O,: NaSO,
Sample Custody Seals	s: Yes		Temperature Reading	re Reading:	20%		1	ВТ	Chl												7	Zn Acetate+NaOH: Zn
Total Containers:		10.00	Corrected T	Corrected Temperature:	3.70																Z	NaOH+Ascorbic Acid: SAPC
Sample Identification	Depth (ft bgs)	Date	Time	Soil	Water Comp	b/ # of Cont	7															Sample Comments
V-3	0-6"	12/26/2024		×	Grab	ab 1	×	×	×		_	$\dashv$						$\neg$	$\neg$			
V-3	1-1.5	12/26/2024		×	Grab	ab 1	×	×	×		-								$\exists$		$\dashv$	
V-3	2-2.5	12/26/2024		×	Grab	ab 1	×	×	×		-	_							$\neg$		$\rightarrow$	
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V-3	4-4.5	12/26/2024		×	Grab	ab 1	×	×	×		$\dashv$										$\dashv$	
V-4	0-6"	12/26/2024		×	Grab	ab 1	×	×	×		$\dashv$								$\neg$	- 1	_	
V-4	1-1.5	12/26/2024		×	Grab	ab 1	×	×	×		$\dashv$										_	
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V-4	3-3.5	12/26/2024		×	Grab	ab 1	×	×	×		$\dashv$								$\neg$		+	
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Additio	Additional Comments:	9.		7																		
																			Ш	Ш		
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.	locument and reling iable only for the co	uishment of samp st of samples and applied to each p	shall not assuroject and a c	s a valid purchase ume any responsil harge of \$5 for ea	order from clien bility for any loss ch sample submi	t company t es or expen tted to Xenc	ses incur	its affilia red by tl t analyz	ates and s he client i ed. These	ubcontra f such los terms w	sses are c	t assigns standard terms and conditions due to circumstances beyond the control forced unless previously negotiated.	tandard umstand ss previo	terms a es beyo ously ne	nd cond nd the gotiate	litions control						,
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City, State ZIP:

NTG Environmental

209 W. McKay St.

432-701-2159

Carlsbad, New Mexico, 88220

City, State ZIP:

Deliverables: EDD

ADaPT

Reporting:Level II Level III PST/UST

RRP

☐ Level IV ☐

State of Project:

Program: UST/PST PRP Brownfields RRC

uperfund |

BTA Oil Producers

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Work Order Comments	Bill to: (if different) Ray Ramos	Project Manager: Ethan Sessums	Pro
Page 4 of 4			
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Work Order No: Mot 115			Milian
work / will			
	Chain of Custody		

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		Melle	Re	samples and shal	ent of samples co											12/26/2024	Date	37 Coi	N/A Ter	NIA	No The	lank: Yes		Nick Hart	Lea County, NM	249318	Gem 8705 JV-P #004
	,	Ma Ch	Received by: (Signature)	I not assume any net and a charge of §	onstitutes a valid n							-				×	Time Soil	Corrected Temperature:	Temperature Reading:	Correction Factor:	Thermometer ID:	S Wet Ice	lab	TAT sta	Due Date	✓ Routine	
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			е)														Samp	NaOH+Asco	Zn Acetate+NaOH: Zn	Na.S.O.: NaSO.	NaHSO: NARIS	H,PO.: HP	H.SO.: H.	HCI - HC	Cool: Cool	None: NO	Prese
in in			Date/Time														Sample Comments	NaOH+Ascorbic Acid: SAPC	NaOH: Zn	3SO.	ARIS		NaOH: Na	HNO : HN	MeOH: Me	DI Water: H <sub>2</sub> O	Preservative Codes

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

Phone: (505) 629-6116
Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS

Action 423073

### **QUESTIONS**

Operator:	OGRID:				
BTA OIL PRODUCERS, LLC	260297				
104 S Pecos	Action Number:				
Midland, TX 79701	423073				
	Action Type:				
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)				

### QUESTIONS

Prerequisites						
Incident ID (n#)	nTO1414738096					
Incident Name	NTO1414738096 GEM 8705 JV-P #004 @ 30-025-31209					
Incident Type	Oil Release					
Incident Status	Remediation Plan Received					
Incident Well	[30-025-31209] GEM 8705 JV-P #004					

Location of Release Source							
Please answer all the questions in this group.							
Site Name	GEM 8705 JV-P #004						
Date Release Discovered	05/15/2014						
Surface Owner	State						

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: Other   Flow Line - Production   Crude Oil   Released: 8 BBL   Recovered: 4 BBL   Lost: 4 BBL.							
Produced Water Released (bbls) Details	Not answered.							
Is the concentration of chloride in the produced water >10,000 mg/l	Not answered.							
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)	Not answered.							

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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, Page 2

Action 423073

**QUESTIONS** (continued)

Q02011	one (continued)
Operator:	OGRID: 260297
BTA OIL PRODUCERS, LLC 104 S Pecos	Action Number:
Midland, TX 79701	423073
	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.	e. gas only) are to be submitted on the C-129 form.
hawat Passagas	
Initial Response	
The responsible party must undertake the following actions immediately unless they could create a s	
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.
	ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative o ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for releate the OCD does not relieve the operator of liability should their operations have failed to a	knowledge and understand that pursuant to OCD rules and regulations all operators are required ases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: Ray Ramos Title: Environmental Manager Email: rramos@btaoil.com Date: 01/21/2025

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

Phone: (505) 629-6116 Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS, Page 3

Action 423073

**QUESTIONS** (continued)

Operator:	OGRID:					
BTA OIL PRODUCERS, LLC	260297					
104 S Pecos	Action Number:					
Midland, TX 79701	423073					
	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 approva release discovery date.	l and beyond). This information must be provided to the appropriate district office no later than 90 days after the					
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (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					
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:						
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)					
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 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	Between 1 and 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	Between 1 and 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 mil	ligrams per kilograms.)					
Chloride (EPA 300.0 or SM4500 Cl B)	3080					
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	254.9					
GRO+DRO (EPA SW-846 Method 8015M)	157					
BTEX (EPA SW-846 Method 8021B or 8260B)	0					
Benzene (EPA SW-846 Method 8021B or 8260B)	0					
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	02/03/2025					
On what date will (or did) the final sampling or liner inspection occur	02/05/2025					
On what date will (or was) the remediation complete(d)	02/07/2025					
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	1328					
What is the estimated volume (in cubic yards) that will be remediated	32					
These estimated dates and measurements are recognized to be the best guess or calculation at the	e 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.

General Information Phone: (505) 629-6116

Online Phone Directory <a href="https://www.emnrd.nm.gov/ocd/contact-us">https://www.emnrd.nm.gov/ocd/contact-us</a>

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

QUESTIONS, Page 4

Action 423073

**QUESTIONS** (continued)

Operator:	OGRID:
BTA OIL PRODUCERS, LLC	260297
104 S Pecos	Action Number:
Midland, TX 79701	423073
	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 off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes	
Which OCD approved facility will be used for off-site disposal	LEA LAND LANDFILL [fEEM0112342028]	
OR which OCD approved well (API) will be used for off-site disposal	Not answered.	
OR is the off-site disposal site, to be used, out-of-state	No	
OR is the off-site disposal site, to be used, an NMED facility	No	
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No	
(In Situ) Soil Vapor Extraction	No	
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No	
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No	
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No	
Ground Water Abatement pursuant to 19.15.30 NMAC	No	
OTHER (Non-listed remedial process)	No	

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.

Name: Ray Ramos
Title: Environmental Manager
Email: rramos@btaoil.com
Date: 01/21/2025

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.

General Information Phone: (505) 629-6116

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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, Page 5

Action 423073

**QUESTIONS** (continued)

Operator:	OGRID:
BTA OIL PRODUCERS, LLC	260297
104 S Pecos	Action Number:
Midland, TX 79701	423073
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

### QUESTIONS

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

QUESTIONS, Page 6

Action 423073

QUESTIONS (continued)

 Operator:
 OGRID:

 BTA OIL PRODUCERS, LLC
 260297

 104 S Pecos
 Action Number:

 Midland, TX 79701
 423073

 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

General Information Phone: (505) 629-6116

Online Phone Directory <a href="https://www.emnrd.nm.gov/ocd/contact-us">https://www.emnrd.nm.gov/ocd/contact-us</a>

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

CONDITIONS

Action 423073

### **CONDITIONS**

Operator:	OGRID:
BTA OIL PRODUCERS, LLC	260297
104 S Pecos	Action Number:
Midland, TX 79701	423073
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

### CONDITIONS

Created By		Condition Date
amaxwell	Remediation work plan approved.	1/22/2025
amaxwell	Submit a report via the OCD permitting portal by April 21, 2025.	1/22/2025