



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

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

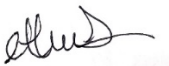
Proposed Work Plan

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

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

Sample ID	Sample Date	Depth (ft bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH					Chloride
								GRO (C6-C10)	DRO (C10-C28)	GRO + DRO (C6-C28)	MRO (C28-C35)	Total GRO/DRO/MRO (C6-C35)	
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	
			Table I Closure Criteria for Soil >100 feet Depth to Groundwater 19.15.29 NMAC										
			10 mg/kg	---	---	---	50 mg/kg	---	---	1,000 mg/kg	---	2,500 mg/kg	20,000 mg/kg
Vertical Delineation Samples													
V-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	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
	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
V-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	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
	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
V-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	352
	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
V-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	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
	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
V-5	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
	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
Horizontal Delineation 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

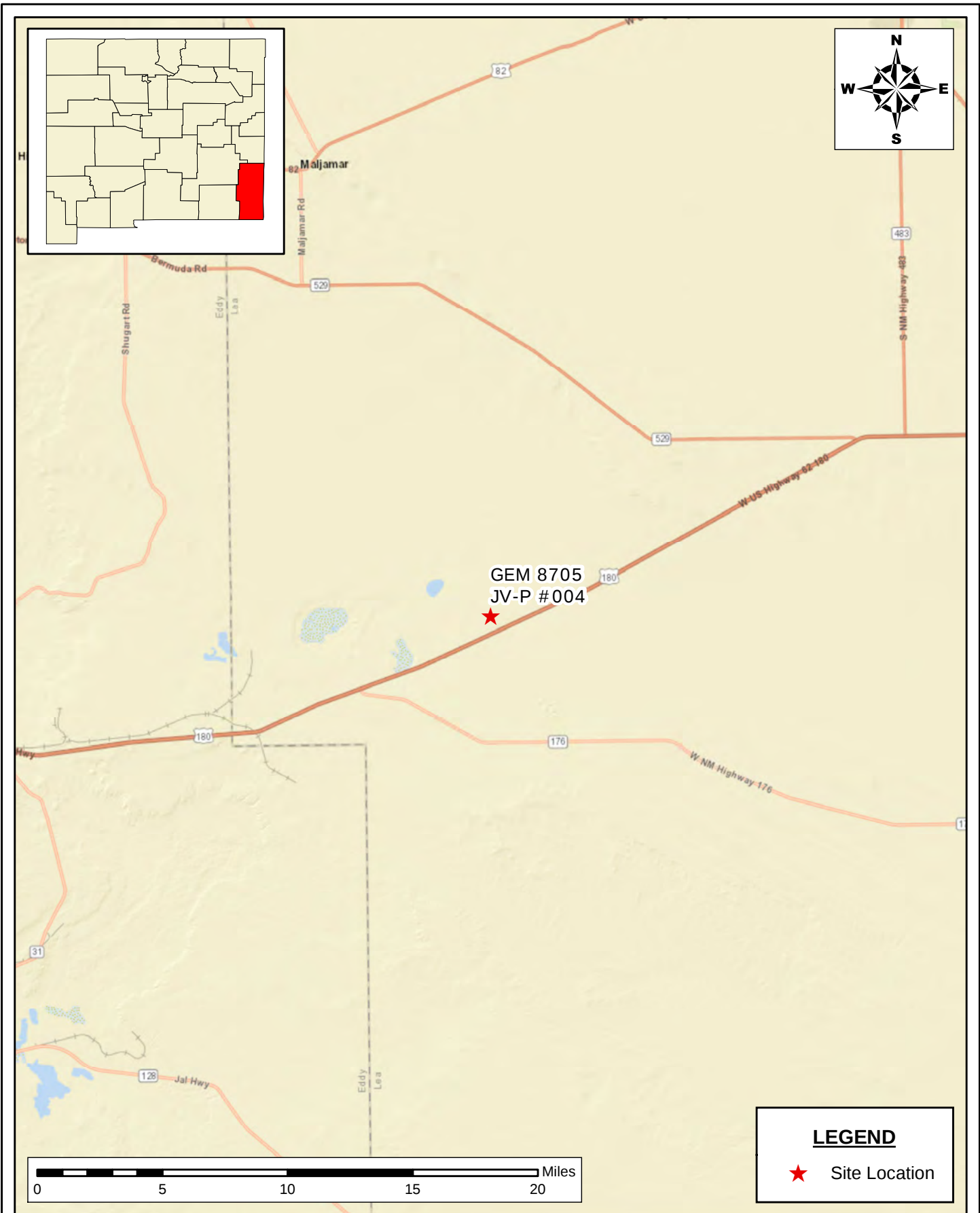
Notes:
1. Values reported in mg/kg
2.< = Value Less Than Reporting Limit (RL)
3. Bold indicates Analyte Detected
4. BTEX analyses by EPA Method SW 8021B

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

SP-1Sample Point Excavated

Figures

Document Path: C:\Users\ntg\Documents\New Tech Global\NTG - Projects\2024 PROJECTS\BTA\SC\249318 - GEM 8705 JV-P #004\17 - Figures\GIS\Figure_1_SL_SC_REMED_WORKPLAN.mxd



SITE LOCATION MAP
SITE CHARACTERIZATION AND REMEDIATION WORKPLAN
 BTA OIL PRODUCERS, LLC
 GEM 8705 JV-P #004
 LEA COUNTY, NEW MEXICO

SCALE: As Shown

Date: 1/16/2025

PROJECT #: 249318

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

**NOTES:**

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

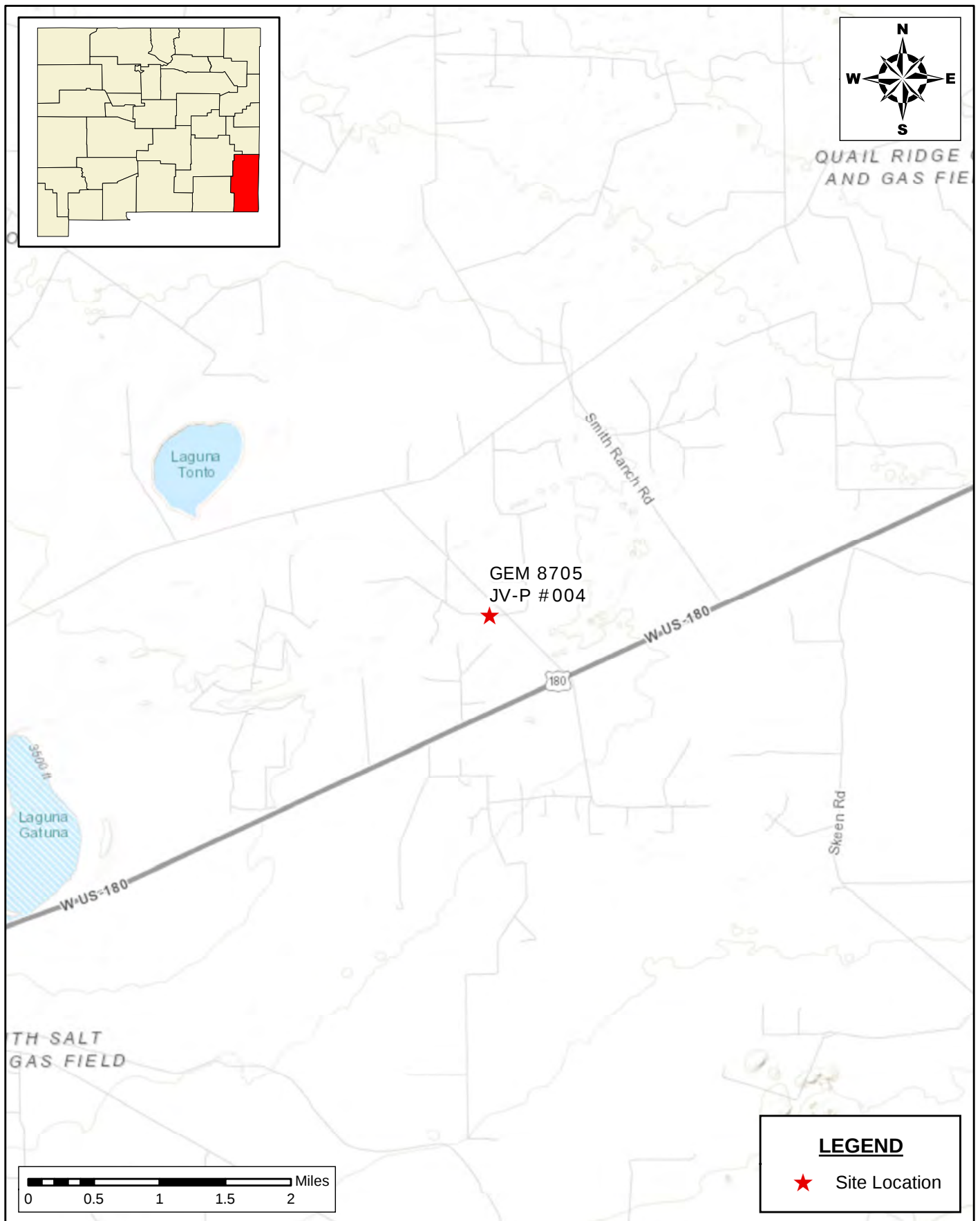
DRAWING NUMBER:

FIGURE 1

SHEET NUMBER:

1 of 1

Document Path: C:\Users\ntg\Documents\New Tech Global\NTGE - Documents\NTGE - Projects\2024 PROJECTS\BTA\SC1249318 - GEM 8705 JV-P #004\17 - Figures\GIS\Figure 2_TOPO_SC_REMED_WORKPLAN.mxd



TOPOGRAPHIC MAP
 SITE CHARACTERIZATION AND REMEDIATION WORKPLAN
 BTA OIL PRODUCERS, LLC
 GEM 8705 JV-P #004
 LEA COUNTY, NEW MEXICO

SCALE: As Shown Date: 1/16/2025 PROJECT #: 249318

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Document Path: C:\Users\ntg\Documents\New Tech Global\NTGE - Documents\NTGE - Projects\2024 PROJECTS\BTAIRSC\249318 - GEM 8705 JV-P #004\7 - Figures\GIS\Figure_3_IA_SC_REMED_WORKPLAN.mxd



DELINEATION MAP
SITE CHARACTERIZATION AND REMEDIATION WORKPLAN
 BTA OIL PRODUCERS, LLC
 GEM 8705 JV-P #004
 LEA COUNTY, NEW MEXICO

SCALE: As Shown

Date: 1/16/2025

PROJECT #: 249318



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

NOTES:

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

DRAWING NUMBER:

FIGURE 3

SHEET NUMBER:

1 of 1

Proposed Excavation Map

BTA Oil Producers
Gem 8705 JV-P #004
Lea County, New Mexico
32.595985, -103.635866

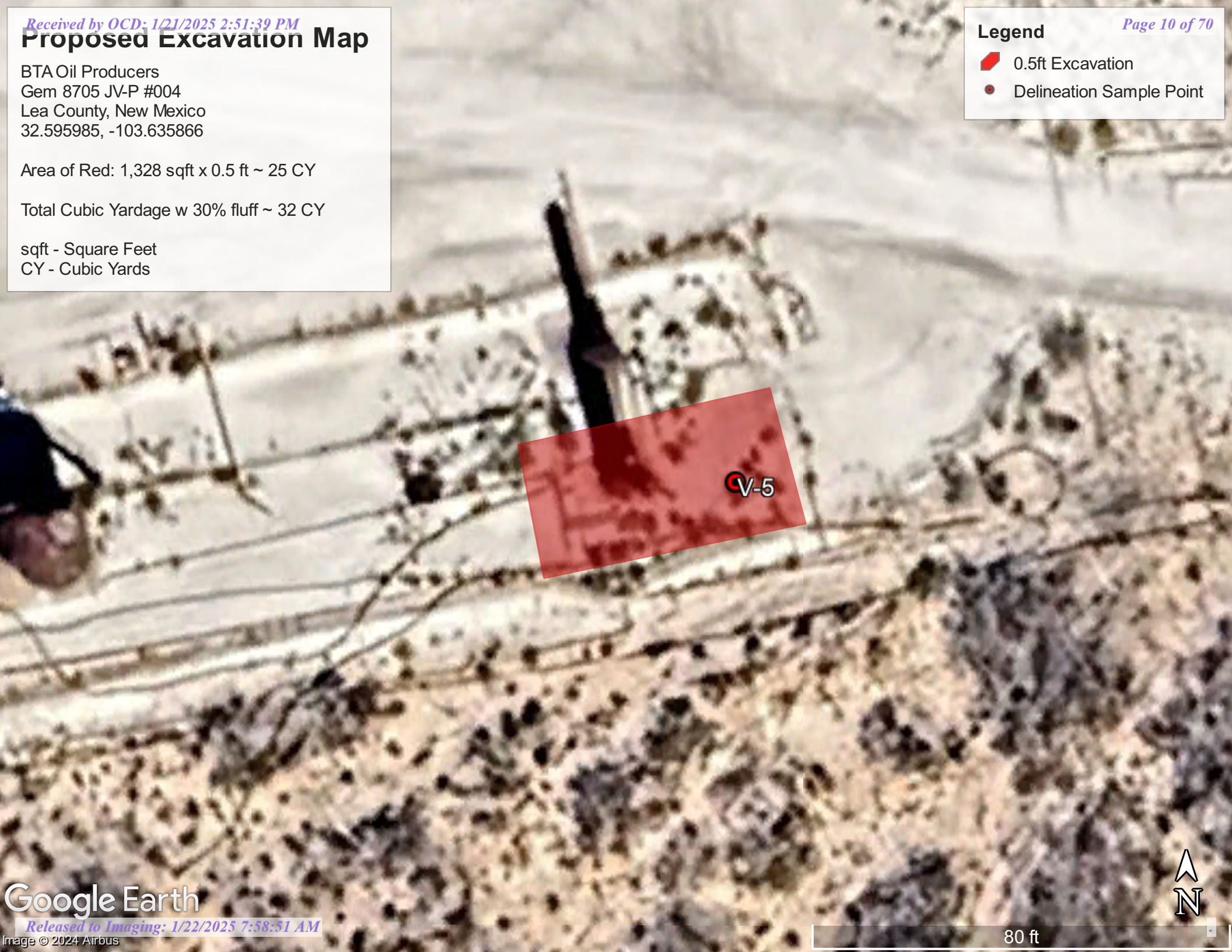
Area of Red: 1,328 sqft x 0.5 ft ~ 25 CY

Total Cubic Yardage w 30% fluff ~ 32 CY

sqft - Square Feet
CY - Cubic Yards

Legend

-  0.5ft Excavation
-  Delineation Sample Point



Site Characterization Information

NMOCD Closure Criteria

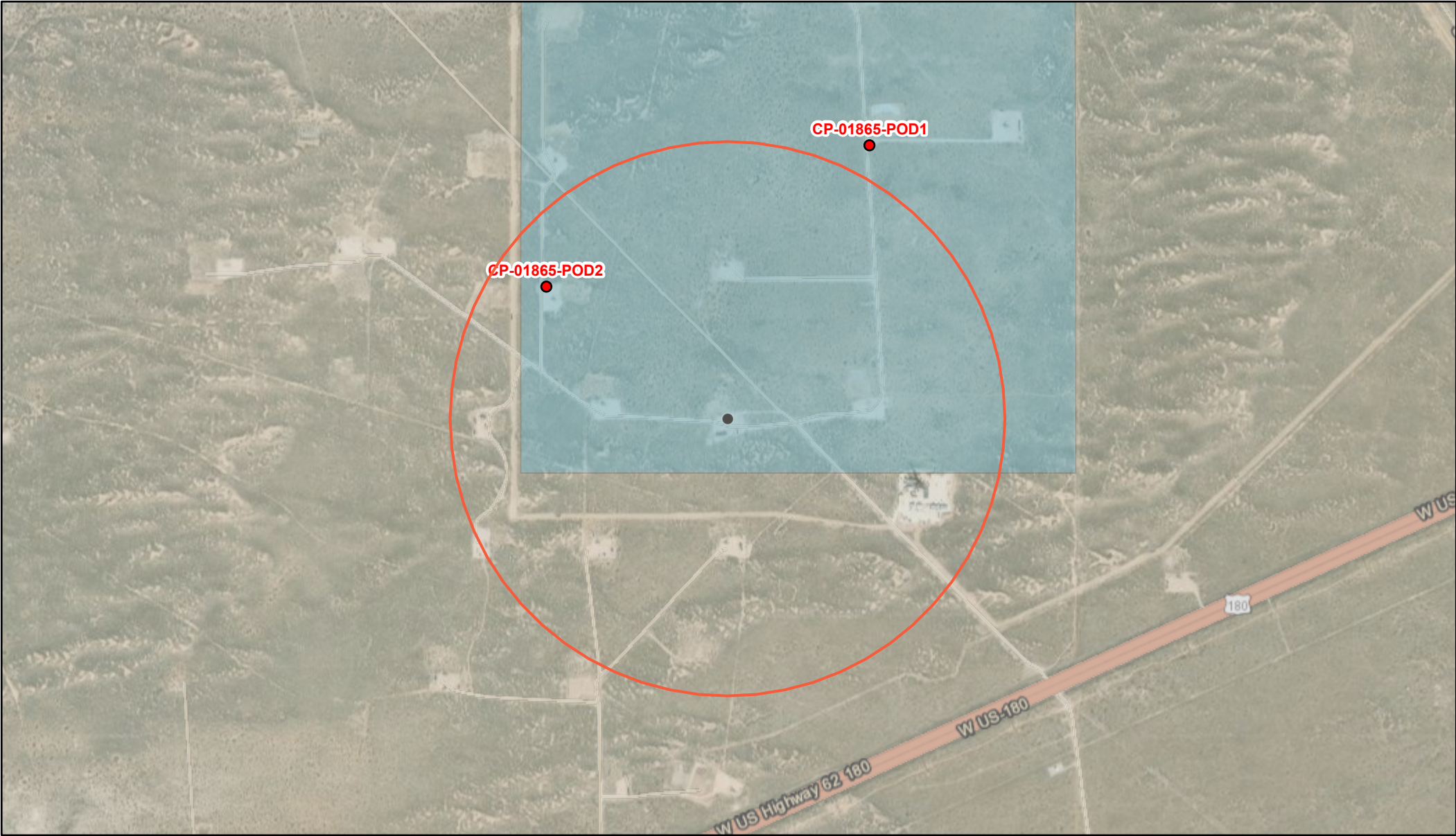
Gem 8705 JV-P #004

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) and Table 1 NMAC)						
Depth to Groundwater (ft)		Closure Criteria (mg/kg)				
		Chloride*	TPH	GRO + DRO	BTEX	Benzene
< 50		600	100	--	50	10
51 - 100		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	600	100		50	10
<200 ft from a lakebed, sinkhole, or playa lake?	No					
Water Well or Water Source						
<500 ft from a spring or a private, domestic fresh waster well used by less that 5 households for domestic or livestock purposes?	No					
<1,000 ft from a fresh water well or spring?	No					
Human and Other Area						
<300 ft from an occupied permanent residence, school, hospital, institution or church?	No					
Within incorporated municipal boundaries or within a defined municipal fresh water well field?	No					
<100 ft from a wetland?	No					
Within an area overlying a subsurface mine?	No					
Within and unstable area?	No					
Within a 100 yr floodplain?	No					

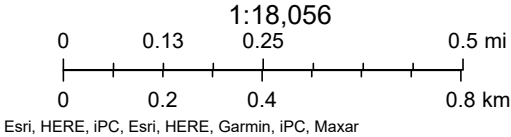
* - numerical limit or background, whichever is greater

OSE POD Location Map



11/8/2024, 12:43:09 PM

- Override 1
- OSE District Boundary
- New Mexico State Trust Lands
- Both Estates
- Plugged
- Closure Area





WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

OSE DTI JUL 22 2021 PM 2:05

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD1 CP-1865		WELL TAG ID NO.		OSE FILE NO(S). CP-01865			
	WELL OWNER NAME(S) BTA OIL PRODUCERS, LLC				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS 104 S PECOS ST				CITY MIDLAND			
					STATE TX			
					ZIP 79701			
WELL LOCATION (FROM GPS)	DEGREES LATITUDE		MINUTES 32	SECONDS 36	12.5	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84	
	LONGITUDE		-103	37	54	W		
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE LEA SECTION 2 TOWNSHIP 20S RANGE 33E								
2. DRILLING & CASING INFORMATION	LICENSE NO. WD-1753		NAME OF LICENSED DRILLER JACOB FRIESSEN			NAME OF WELL DRILLING COMPANY VANGURD		
	DRILLING STARTED 2-8-21		DRILLING ENDED 2-8-21		DEPTH OF COMPLETED WELL (FT) 105	BORE HOLE DEPTH (FT) 105	DEPTH WATER FIRST ENCOUNTERED (FT) 0	
	COMPLETED WELL IS: ☐ ARTESIAN ☒ DRY HOLE ☐ SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) 0		
	DRILLING FLUID: ☒ AIR ☐ MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: ☒ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ OTHER - SPECIFY:							
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	-1	99	4.5	BLANK PVC	THREAD 2.375	2	.187	
	99	105	4.5	SCREEN PVC	THREAD 2.375	2	.187	.02
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						
	0	99	4.5	GROUT	8	POURED		
	99	105	4.5	SILICA SAND	.5	POURED		

FOR OSE INTERNAL USE

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

FILE NO. C-1865	POD NO. 1	TRN NO. 686912
LOCATION 20S-33E-02	2-3-4	WELL TAG ID NO. NA
		PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL

5. TEST: RIG SUPERVISION

5. SIGNATURE

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 04/30/2019)	
FILE NO. C-1865	POD NO. 1	TRN NO. 686912	
LOCATION 70S-33F-02	2-3-4	WELL TAG ID NO. NA	PAGE 2 OF 2

NAD83 UTM in meters

Well										
Tag	POD Nbr	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map
NA	CP 01865 POD2	SW	NW	SW	02	20S	33E	627454.2	3607733.7	 

* UTM location was derived from PLSS - see [Help](#)

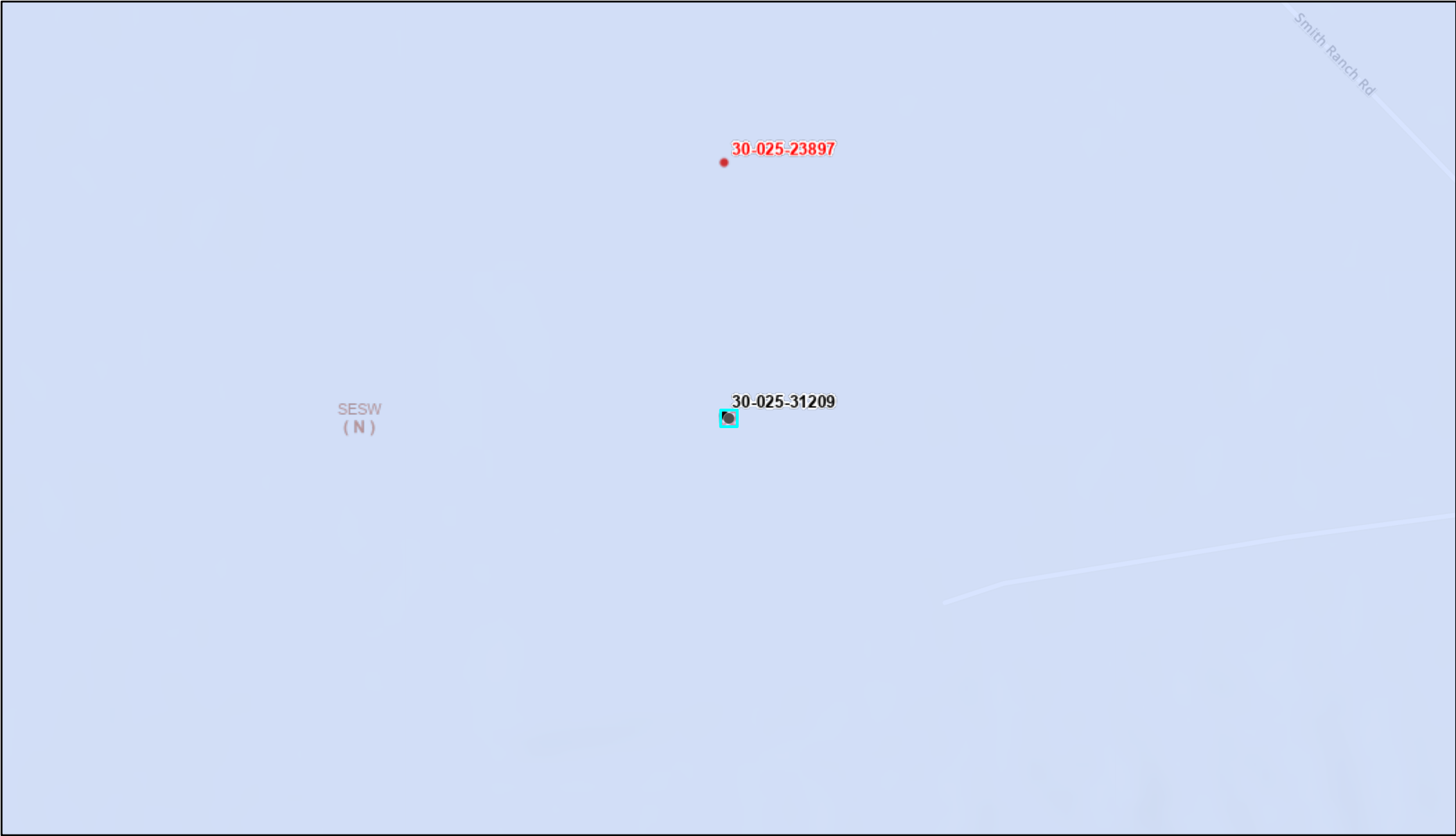
Driller License:	1753	Driller Company:	VANGUARD WELL RESOURCES, LLC		
Driller Name:	FRIESSEN, JACOBOIEL.NER				
Drill Start Date:	2021-02-08	Drill Finish Date:	2021-02-08	Plug Date:	2021-03-01
Log File Date:	2021-07-22	PCW Rcv Date:		Source:	
Pump Type:		Pipe Discharge Size:		Estimated Yield:	
Casing Size:		Depth Well:	105	Depth Water:	0

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

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

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Karst Potential Map



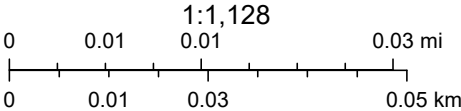
11/8/2024, 12:50:17 PM

Wells - Large Scale Karst Occurrence Potential

 PLSS First Division

 Oil, Active  Low

 Oil, Plugged  PLSS Second Division



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

Legend

Basemap

Query

1:36,112

Legend

All Layers On/Off

All Layer Transparency

NM Wetlands Mapping and Classification

NM Wetlands Mapping and Classification

Mapping Status

Riparian Habitat

Hydrogeomorphic Mapping (HGM) Linears

Riverine

Hydrogeomorphic Mapping (HGM)

Polygons

Depressional

Flats

Lacustrine Fringe

Riverine

Slope

Landscape Position and Water Body (LLWW) Linears

Landscape Position and Water Body (LLWW) Polygons

Landform (LLWW)

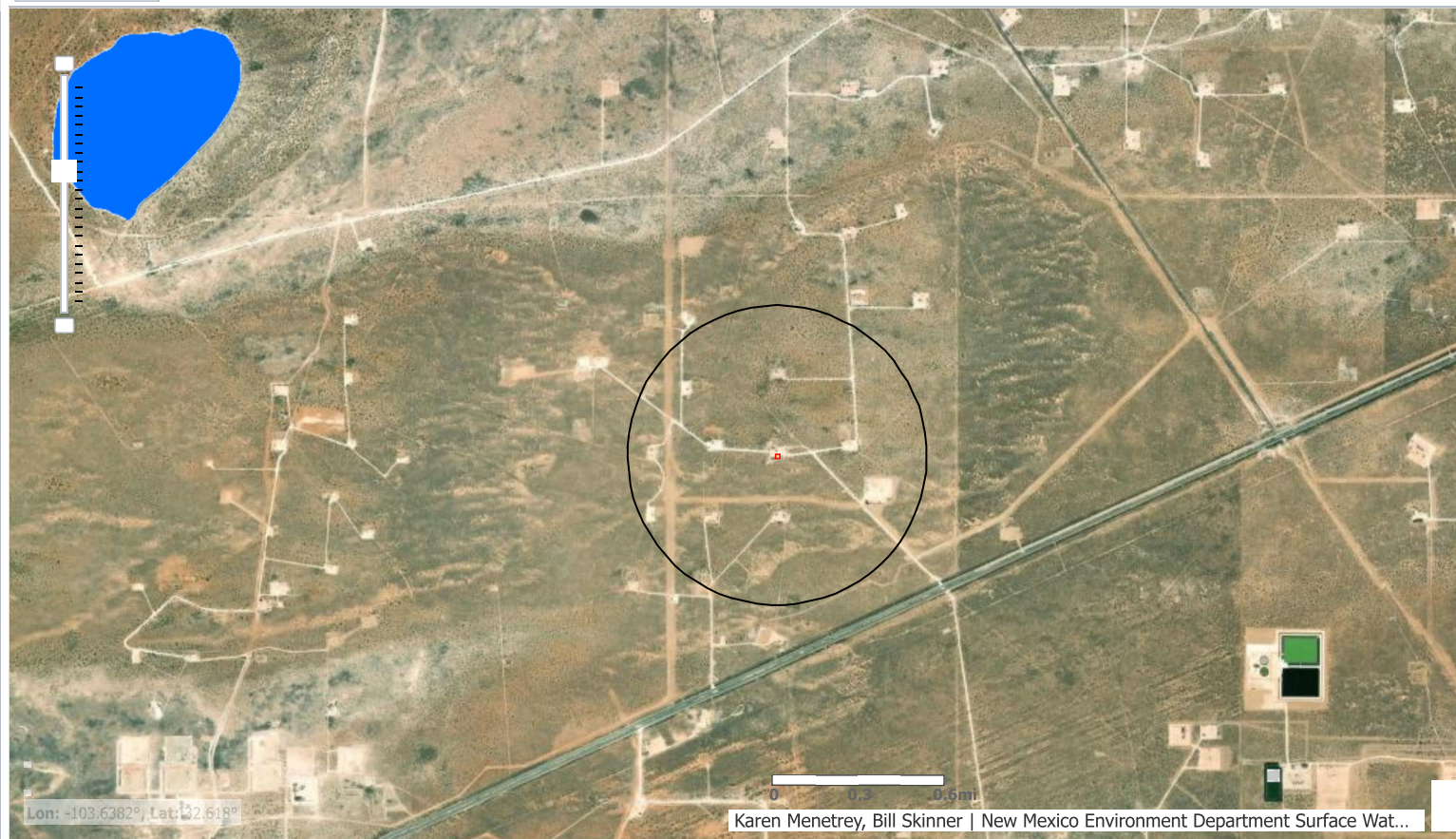
NWI Linears

Palustrine Emergent (PEM)

Palustrine Forested (PFO)

Palustrine Rock Bottom (PRB)

Palustrine Scrub Shrub (PSS)

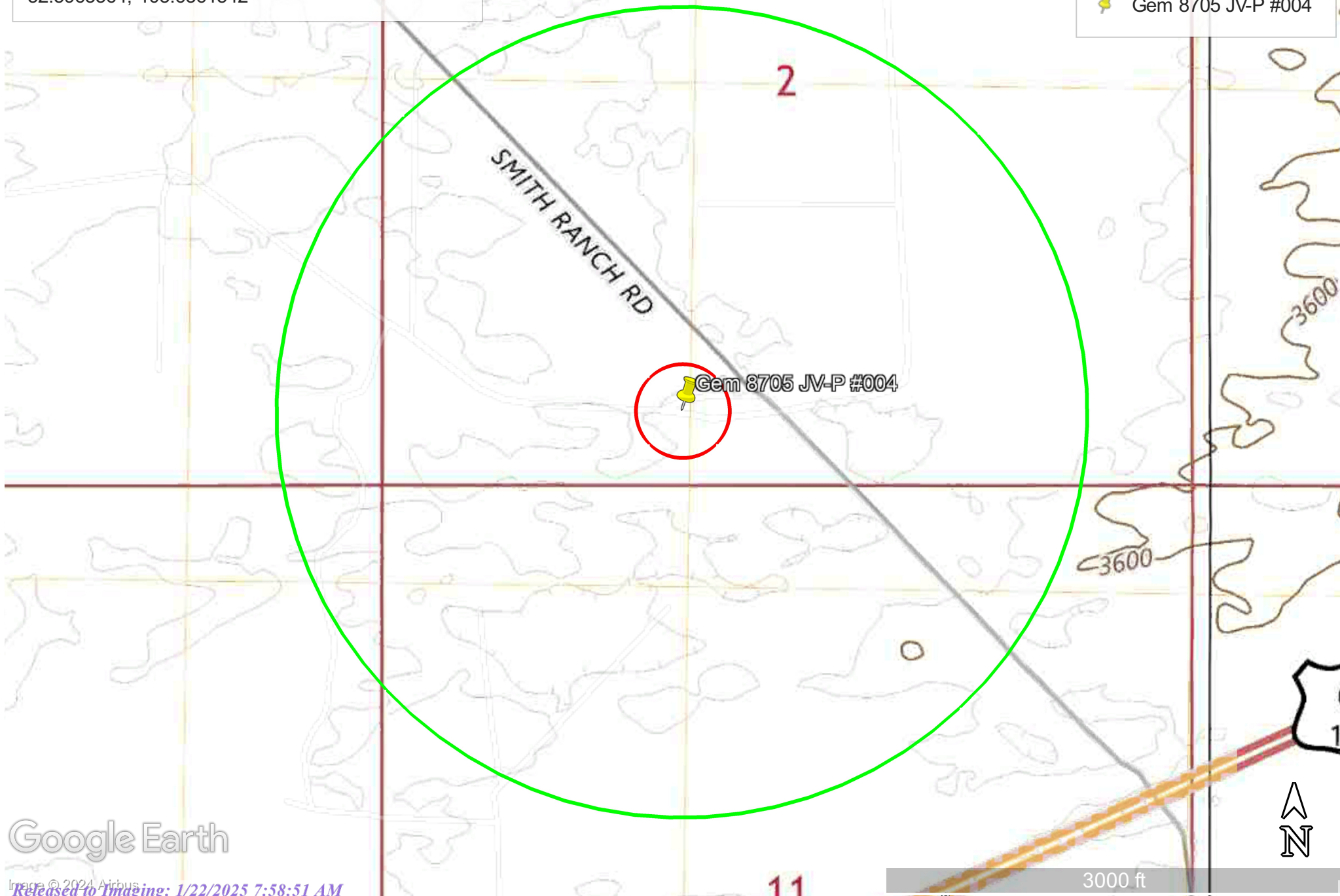


Significant Watercourse Map

BTA Oil Producers, LLC
Gem 8705 JV-P #004
32.5963364,-103.6361542

Legend

-  0.5 Mile Radius
-  300 ft Radius
-  Gem 8705 JV-P #004



Google Earth



U.S. Fish and Wildlife Service

National Wetlands Inventory

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.

National Flood Hazard Layer FIRMMette



103°38'29"W 32°36'2"N



1:6,000

103°37'51"W 32°35'32"N

Legend

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

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



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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **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

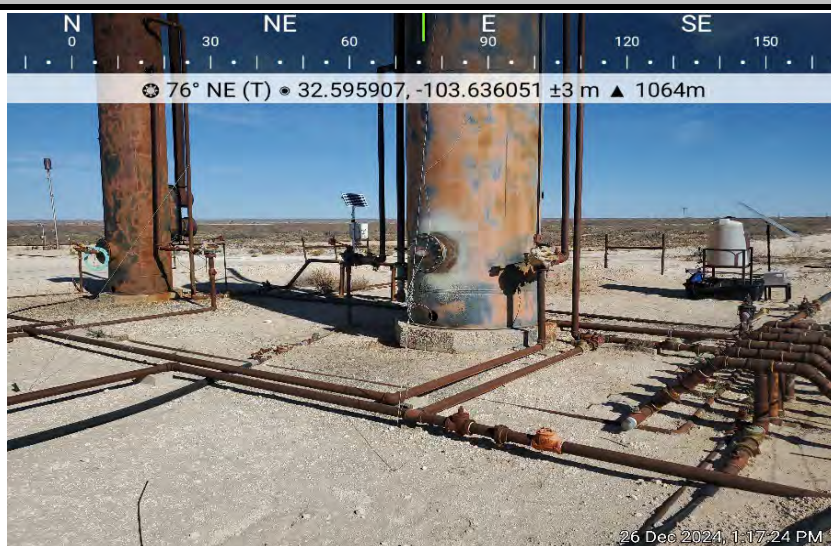


PHOTOGRAPHIC LOG**BTA Oil Producers
Gem 8705 JV-P #004****Photograph No. 4****Facility:** Gem 8705 JV-P #004**County:** Lea County, New Mexico**Description:**

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



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

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 www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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 - 1 0-6" (H247757-01)

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) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		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 95.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

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 - 1 1-1.5' (H247757-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		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 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 127 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

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 - 1 2-2.5' (H247757-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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 % 71.5-134

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 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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 - 1 3-3.5' (H247757-04)

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) 112 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed 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		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 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 130 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

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 - 1 4-4.5' (H247757-05)

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) 105 % 71.5-134

Chloride, SM4500Cl-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 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 133 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

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 - 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 % 71.5-134

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 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

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 - 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 % 71.5-134

Chloride, SM4500Cl-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 % 48.2-134

Surrogate: 1-Chlorooctadecane 125 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

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 - 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 % 71.5-134

Chloride, SM4500Cl-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 % 48.2-134

Surrogate: 1-Chlorooctadecane 131 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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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 - 2 3-3.5' (H247757-09)

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) 113 % 71.5-134

Chloride, SM4500Cl-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 % 48.2-134

Surrogate: 1-Chlorooctadecane 127 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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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 - 2 4-4.5' (H247757-10)

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 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed 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		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	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 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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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 0-6" (H247757-11)

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) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		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	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 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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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 1-1.5' (H247757-12)

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) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		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	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 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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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 2-2.5' (H247757-13)

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) 112 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed 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		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	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 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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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		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 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		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	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 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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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 4-4.5' (H247757-15)

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	1.94	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 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		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	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 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

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 - 4 0-6" (H247757-16)

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	1.94	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 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		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	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 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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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 - 4 1-1.5' (H247757-17)

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	1.94	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 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		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	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 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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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 - 4 2-2.5' (H247757-18)

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	1.94	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 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		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	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 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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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 - 4 3-3.5' (H247757-19)

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	1.94	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 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		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	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 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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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 - 4 4-4.5' (H247757-20)

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	1.94	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 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		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	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 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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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 - 5 0-6" (H247757-21)

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	1.94	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 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		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	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 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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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 - 5 1-1.5' (H247757-22)

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	1.94	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 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		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	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 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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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 - 5 2-2.5' (H247757-23)

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	1.94	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 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		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	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 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

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 - 5 3-3.5' (H247757-24)

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	1.94	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 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		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	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 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

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 - 5 4-4.5' (H247757-25)

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	1.94	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 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		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	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 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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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: H - 1 0-6" (H247757-26)

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	1.94	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 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		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	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 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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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: H - 2 0-6" (H247757-27)

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	1.94	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 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		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	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 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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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: H - 3 0-6" (H247757-28)

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	1.94	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 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		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	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 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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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: H - 4 0-6" (H247757-29)

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	1.94	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 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		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	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 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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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: H - 5 0-6" (H247757-30)

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	1.94	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 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		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	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 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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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: H - 6 0-6" (H247757-31)

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	1.94	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 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		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	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 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

S-05	The surrogate recovery is outside of lab established statistical control limits but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager



Chain of Custody

Work Order No: 4847757

Page 1 of 21

Project Manager:	Ethan Sessums	Bill to: (if different)	Ray Ramos
Company Name:	NTG Environmental	Company Name:	BTA Oil Producers
Address:	209 W. McKay St.	Address:	
City, State ZIP:	Carlsbad, New Mexico, 88220	City, State ZIP:	
Phone:	432-701-2159	Email:	esessums@ntglobal.com

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	
State of Project:	
Reporting Level II ☐ Level III ☐ PST/UST ☐ RRP ☐ Level IV ☐	Deliverables: EDD ☐ ADAPT ☐ Other: ☐

SAMPLE RECEIPT				Parameters				ANALYSIS REQUEST												Preservative Codes			
Project Name:	Gem 8705 JV-P #004	Turn Around		Pres. Code																None: NO	DI Water: H ₂ O		
Project Number:	249318	☒ Routine ☐ Rush																		Cool: Cool	MeOH: Me		
Project Location:	Lea County, NM	Due Date:																		HCL: HC	HNO ₃ : HN		
Sampler's Name:	Nick Hart	TAT starts the day received by the lab, if received by 4:30pm																		H ₂ SO ₄ : H ₂	NaOH: Na		
PO #:																				H ₃ PO ₄ : HP			
Received Inact:	Temp Blank: ☒ Yes ☒ No	Thermometer ID:																		NaHSO ₄ : NABIS			
Cooler Custody Seals:	Yes ☒ No ☒ N/A	Correction Factor:																		Na ₂ S ₂ O ₃ : NaSO ₃			
Sample Custody Seals:	Yes ☒ No ☒ N/A	Temperature Reading:																		Zn Acetate+NaOH: Zn			
Total Containers:	31	Corrected Temperature:																		NaOH+Ascorbic Acid: SAPC			
Sample Identification	Depth (ft bgs)	Date	Time	Soil	Water	Grab/Comp	# of Cont																
V-1	0-6"	12/26/2024		X		Grab	1	X	X	X													
V-1	1-1.5	12/26/2024		X		Grab	1	X	X	X													
V-1	2-2.5	12/26/2024		X		Grab	1	X	X	X													
V-1	3-3.5	12/26/2024		X		Grab	1	X	X	X													
V-1	4-4.5	12/26/2024		X		Grab	1	X	X	X													
V-2	0-6"	12/26/2024		X		Grab	1	X	X	X													
V-2	1-1.5	12/26/2024		X		Grab	1	X	X	X													
V-2	2-2.5	12/26/2024		X		Grab	1	X	X	X													
V-2	3-3.5	12/26/2024		X		Grab	1	X	X	X													
V-2	4-4.5	12/26/2024		X		Grab	1	X	X	X													

Additional Comments:

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 <u>[Signature]</u>	<u>[Signature]</u>	12-26-24 1314	2		
3			4		
5			6		



Chain of Custody

Work Order No: 4247757

Page 2 of 4

Project Manager:	Ethan Sessums	Bill to: (if different)	Ray Ramos
Company Name:	NTG Environmental	Company Name:	BTA Oil Producers
Address:	209 W. McKay St.	Address:	
City, State ZIP:	Carlsbad, New Mexico, 88220	City, State ZIP:	
Phone:	432-701-2159	Email:	esessums@ntglobal.com

Work Order Comments	
Program: UST/PT ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	
State of Project:	
Reporting Level II ☐ Level III ☐ PST/UST ☐ RRP ☐ Level IV ☐	
Deliverables: EDD ☐ ADAPT ☐ Other:	

Project Name:	Gem 8705 JV-P #004	Turn Around		Pres. Code	ANALYSIS REQUEST												Preservative Codes				
Project Number:	249318	☒ Routine	☐ Rush														None: NO	DI Water: H ₂ O			
Project Location:	Lea County, NM	Due Date:															Cool: Cool	MeOH: Me			
Sampler's Name:	Nick Hart	TAT starts the day received by the lab, if received by 4:30pm															HCL: HC	HNO ₃ : HN			
PO #:																	H ₂ SO ₄ : H ₂	NaOH: Na			
SAMPLE RECEIPT	Temp Blank:	Yes ☒ No ☐	Yes ☒ No ☐	Well Ice:	Yes ☒ No ☐	Parameters												HOLD			
Received In tact:	Yes ☒ No ☐	Thermometer ID:				TPH 8015											NaHSO ₄ : NABIS				
Cooler Custody Seals:	Yes ☒ No ☐ N/A ☒	Correction Factor:				BTEX 8021B											Na ₂ S ₂ O ₃ : NaSO ₃				
Sample Custody Seals:	Yes ☒ No ☐ N/A ☒	Temperature Reading:				Chloride 300.0 4500											Zn Acetate+NaOH: Zn				
Total Containers:	31	Corrected Temperature:															NaOH+Ascorbic Acid: SACP				
Sample Identification	Depth (ft bgs)	Date	Time	Soil	Water	Grab/Comp	# of Cont													Sample Comments	
V-3	0-6"	12/26/2024		X		Grab	1	X	X	X											
V-3	1-1.5	12/26/2024		X		Grab	1	X	X	X											
V-3	2-2.5	12/26/2024		X		Grab	1	X	X	X											
V-3	3-3.5	12/26/2024		X		Grab	1	X	X	X											
V-3	4-4.5	12/26/2024		X		Grab	1	X	X	X											
V-4	0-6"	12/26/2024		X		Grab	1	X	X	X											
V-4	1-1.5	12/26/2024		X		Grab	1	X	X	X											
V-4	2-2.5	12/26/2024		X		Grab	1	X	X	X											
V-4	3-3.5	12/26/2024		X		Grab	1	X	X	X											
V-4	4-4.5	12/26/2024		X		Grab	1	X	X	X											

Additional Comments:

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<u>Next day</u>	<u>William C. [Signature]</u>	<u>12-26-24/134</u>			



Chain of Custody

Work Order No: H247757

Page 3 of 4

Project Manager:	Ethan Sessums	Bill to: (if different)	Ray Ramos
Company Name:	NTG Environmental	Company Name:	BTA Oil Producers
Address:	209 W. McKay St.	Address:	
City, State ZIP:	Carlsbad, New Mexico, 88220	City, State ZIP:	
Phone:	432-701-2159	Email:	esessums@ntglobal.com

Work Order Comments	
Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Unperfund ☐	
State of Project:	
Reporting Level II ☐ Level III ☐ PST/UST ☐ RRP ☐ Level IV ☐	
Deliverables: EDD ☐ ADAPT ☐ Other:	

Project Name:		Gem 8705 JV-P #004		Turn Around		☒ Routine ☐ Rush		Pres. Code		ANALYSIS REQUEST												Preservative Codes							
Project Number:		249318																				None: NO DI Water: H ₂ O							
Project Location		Lea County, NM		Due Date:																		Cool: Cool MeOH: Me							
Sampler's Name:		Nick Hart		TAT starts the day received by the lab, if received by 4:30pm																		HCL: HC HNO ₃ : HN							
PO #:																						H ₂ SO ₄ : H ₂ NaOH: Na							
SAMPLE RECEIPT				Temp Blank:		Yes ☒ No ☐		Wet Ice:		Yes ☒ No ☐		Parameters												H ₃ PO ₄ : HP					
Received In tact:				Yes ☒ No ☐		Thermometer ID:						TPH 8015												NaHSO ₄ : NABIS					
Cooler Custody Seals:				Yes ☒ No ☐		Correction Factor:						BTEX 8021B												Na ₂ S ₂ O ₃ : NaSO ₃					
Sample Custody Seals:				Yes ☒ No ☐		Temperature Reading:						Chloride 300.0												Zn Acetate+NaOH: Zn					
Total Containers:				31		Corrected Temperature:						4500 T ₀ : 12/26/24												NaOH+Ascorbic Acid: SAPC					
Sample Identification		Depth (ft bgs)		Date		Time		Soil		Water		Grab/ Comp		# of Cont														Sample Comments	
V-5		0-6"		12/26/2024				X				Grab		1		X													
V-5		1-1.5		12/26/2024				X				Grab		1		X													
V-5		2-2.5		12/26/2024				X				Grab		1		X													
V-5		3-3.5		12/26/2024				X				Grab		1		X													
V-5		4-4.5		12/26/2024				X				Grab		1		X													
H-1		0-6"		12/26/2024				X				Grab		1		X													
H-2		0-6"		12/26/2024				X				Grab		1		X													
H-3		0-6"		12/26/2024				X				Grab		1		X													
H-4		0-6"		12/26/2024				X				Grab		1		X													
H-5		0-6"		12/26/2024				X				Grab		1		X													

Additional Comments:

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 <u>Nice Hog</u>	<u>[Signature]</u>	<u>12-26-24 1342</u>			
3					
5					



Chain of Custody

Work Order No: H247757

Page 4 of 4

Project Manager:	Ethan Sessums	Bill to: (if different)	Ray Ramos
Company Name:	NTG Environmental	Company Name:	BYA Oil Producers
Address:	209 W. McKay St.	Address:	
City, State ZIP:	Carlsbad, New Mexico, 88220	City, State ZIP:	
Phone:	432-701-2159	Email:	esessums@ntglobal.com

Work Order Comments	
Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	
State of Project:	
Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐	
Deliverables: EDD ☐ ADAPT ☐ Other:	

Project Name:	Gem 8705 JV-P #004	Turn Around															Preservative Codes		
Project Number:	249318	☒ Routine	☐ Rush												None: NO	DI Water: H ₂ O			
Project Location	Lea County, NM	Due Date:													Cool: Cool	Meth: Me			
Sampler's Name:	Nick Hart	TAT starts the day received by the lab, if received by 4:30pm													HCL: HC	HNO ₃ : HN			
PO #:															H ₂ SO ₄ : H ₂	NaOH: Na			
SAMPLE RECEIPT		Temp Blank:	Yes No ☒ ☐	Wet Ice:	Yes No ☒ ☐												HOLD		
Received Intact:	Yes No ☒ ☐	Thermometer ID:	#140												H ₃ PO ₄ : HP				
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.0%												NaHSO ₄ : NABIS				
Sample Custody Seals:	Yes No N/A	Temperature Reading:	4.3°C												Na ₂ S ₂ O ₃ : NASO ₃				
Total Containers:	45	Corrected Temperature:	3.7°c												Zn Acetate+NaOH: Zn				
															Zn Ascorbic Acid: SAPC				

[illegible]

Additional Comments:

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 <i>[Signature]</i>	<i>[Signature]</i>	12-26-2013	2		
3			4		
5			6		

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

QUESTIONS

Action 423073

QUESTIONS

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

QUESTIONS

Prerequisites	
Incident ID (n#)	nTO1414738096
Incident Name	NT01414738096 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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QUESTIONS, Page 2

Action 423073

QUESTIONS (continued)

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297
	Action Number: 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	<i>Unavailable.</i>
<i>With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.</i>	

Initial Response

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

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

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

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

I hereby agree and sign off to the above statement	Name: Ray Ramos Title: Environmental Manager Email: rramos@btaoil.com Date: 01/21/2025
--	---

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QUESTIONS, Page 3

Action 423073

QUESTIONS (continued)

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

QUESTIONS

Site Characterization	
<i>Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
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	
<i>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.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>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.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	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
<i>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>	
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
<i>These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.</i>	
<i>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.</i>	

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Oil Conservation Division
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Santa Fe, NM 87505

QUESTIONS, Page 4

Action 423073

QUESTIONS (continued)

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

QUESTIONS

Remediation Plan (continued)	
<i>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.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(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
<i>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>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Ray Ramos Title: Environmental Manager Email: rramos@btaoil.com Date: 01/21/2025
<i>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.</i>	

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QUESTIONS, Page 5

Action 423073

QUESTIONS (continued)

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297
	Action Number: 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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QUESTIONS, Page 6

Action 423073

QUESTIONS (continued)

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297
	Action Number: 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

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

CONDITIONS

Action 423073

CONDITIONS

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

CONDITIONS

Created By	Condition	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