Remediation Summary & Closure Request

Harvard Petroleum Company, LLC
Tomcat 16 State #003
Lea County, New Mexico
Unit L, Section 16, Township 23 South, Range 32 East
Latitude 32.302722° North, Longitude -103.686035° West
NMOCD Incident # nAPP2434026328

Prepared For:

Harvard Petroleum Company, LLC
P.O. Box 1759, Dept. 812
Houston, Texas 77251

Prepared By:

COMM Engineering, Inc
1319 W Pinhook Rd., Suite 401
Lafayette, LA 70503

May 9th, 2025

May 9th, 2025 Project: #240646

Remediation Summary & Closure Request: Tomcat 16 State #003
Unit L, Section 16, Township 23 South,
Range 32 East
Lea County, New Mexico
API: 30-025-34809
Incident: nAPP2434026328

Prepared For: Harvard Petroleum Company
3737 Buffalo Speedway, Suite 1600
Houston, Texas 77098

New Mexico Oil Conservation Division – District 1 – Hobbs
1625 N. French Dr.
Hobbs, NM 88240

Harvard Petroleum Company, LLC (Harvard) retained COMM Engineering, Inc. (COMM), to conduct a *Remediation Summary and Closure Request* for the December 4th, 2024, release that occurred at the Tomcat 16 State #003, API 30-025-34809 (hereafter referred to as "Site"). Harvard Petroleum provided notification of the release to New Mexico Oil Conservation Division (NMOCD) District 1, via submission of an initial C-141 Release Notification on December 5th, 2024.

This letter provides a description of the *Remediation Summary and Closure Request.*

Background:

Approximately 50 bbl of crude oil was illegally dumped from the Tomcat 16 State #003 well pad. The entirety of the impacted area is off-pad. The release was discovered on 12/04/2024 and excavation commenced on 12/05/2024. COMM Engineering arrived on location on 02/12/2025 to conduct a *Release & Site Assessment*.

Site Information:

The Tomcat 16 State #003 is located approximately 66.6 miles southwest of the district 1 New Mexico OCD office located at 1625 N. French Dr., Hobbs, NM 88240. The legal description of the site is Unit L, Section 16, Township 23 South and Range 32 East in Lea County, New Mexico. The latitude and longitude for the site is 32.302722° North and103.686035° West.

Groundwater and Site Characterization:

Based on the New Mexico Office of the State Engineer database, the nearest reported groundwater depth (C-04712-POD2) is 55 ft bgs at a minimum and located at 32.299° North, -103.6901° West, 0.33 miles southwest of the release.

There is no surface water located on-site. The nearest significant watercourse, as defined in Subsection P of 19.15.17.7 NMAC, is Bell Lake, located 7.87 miles southeast of the release. According to the soil survey provided by the United States Department of Agriculture National Resources Conservation Services, the soils in the area consist of Reeves-Cottonwood association (RT), with 0 to 3 percent slopes. Drainage courses in this area are typically well drained. There are no continuously flowing watercourses or significant watercourses, lakebeds, sinkholes, playa lakes, or other critical water or community features within range as outlined in Paragraph (4) of Subsection C of 19.15.29.12 NMAC. No site receptors exist per 19.15.29.12(C)(4) NMAC. The site is not within a 100-year floodplain and is in a low-risk karst area.

The impacted area for this release is not within range of any of the following as outlined in Paragraph (4) of Subsection C of 19.15.29.12 NMAC:

- 300 feet of any continuously flowing watercourse or any other significant watercourse
- 200 feet of any lakebed, sinkhole or a playa lake
- 300 feet from an occupied permanent residence, school, hospital, institution or church
- 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes
- 1000 feet of any freshwater well or spring
- Incorporated municipal boundaries or within a defined municipal freshwater well field covered under a municipal ordinance adopted pursuant to Section 3-2703 NMSA 1978
- 300 feet of a wetland
- Area overlying a subsurface mine
- Unstable area
- 100-year floodplain

None of the following were a result of this release:

- Fire
- Endangerement to public health
- Fresh water contamination
- Injurie(s)
- Reasonable probability of reaching a significant watercousre.

According to the soil survey provided by the United States Department of Agriculture National Resources Conservation Services, the soils in the area are KD-Kermit-Palomas fine sands with 0 to 12 percent slopes. Drainage courses in this area are typically well drained. There is a low potential for karst geology to be present in the area of the Tomcat 16 State #003.

Incident Description:

Approximately 50 bbl of crude oil was illegally dumped from the Tomcat 16 State #003 well pad. The entirety of the impacted area is off pad.

Site Assessment Activities:

COMM Engineering arrived on location on 02/12/2025 to conduct a *Release & Site Assessment.* The impacted area was already excavated. Measurements of the impacted area and excavation were recorded, and photographs were taken. A sampling grid was created based on the measurements recorded and samples were collected on 02/13/2025.

Soil sampling occurred as follows:

- (15) Five-Point Composite soil samples were collected from the floor of the excavated area.
- (5) Five-Point Composite soil samples were collected from the sidewalls of the excavated area.
- (1) Background sample was collected 76' west of the impacted area.

Each sample point above is representative of 200 ft^2 or less.

COMM collected 21 soil samples in total within the impacted area. Soil samples were immediately placed and maintained on ice, in custody of COMM personnel until relinquished to Environmental Testing, Inc., in Oklahoma City, Oklahoma.

However, COMM Engineering came to realize that Environmental Testing, Inc., is not a certified laboratory with the State of New Mexico. Therefore, after further excavation, all previously sampled areas from the excavated floor, sidewalls, and the background sample, will be resampled for confirmation that the impacted area(s) meet *Table I Closure Criteria for Soils Impacted by a Release* to meet the standards of < 50 feet below ground surface, and submitted to Cardinal Laboratories in Hobbs, New Mexico, which is a certified laboratory with the State of New Mexico.

Line locating was conducted before any samples or were obtained and before any excavation commenced. The NMOCD was provided the proper two business day notice of the sampling event that took place.

Remediation Summary:

On 12/05/2025, excavation commenced on petroleum hydrocarbon impacted soils. The excavation measured 2,373 ft^2, 3,559.5 ft^3, and 131.83 yds^3 of contaminated soil was removed. The contaminated soil was transported to Lea Land, LLC **(Permit: NM-1-0035-New Mexico)**.

Based on the analytical results of the soil samples collected on 02/13/2025, further excavation was required to meet the strictest limits within *Table I Closure Criteria for Soils Impacted by a Release.*

Further excavation and disposal of contaminated soils commenced and was completed on 4/03/2025 to a total depth of 30" bgs at the previously sampled points (F6, F8, F9, F10, F11, F12, F13, F14, SW4) that did not meet the most stringent *Table I Closure Criteria for Soil Impacted by a Release,* highlighted in ***Table 3***, bringing the amount of additional contaminated soil removed to 78 yds^3, equaling a grand total of 209.83 yds^3 of contaminated soil removed and disposed of. The contaminated soil was transported to the OWL Northern Delaware Basin Landfill (**Permit: NM1-63)**

Heavy equipment and labor were utilized to excavate, remove, and load the remaining contaminated soils for transport to a licensed disposal with the State of New Mexico.

The proper two business day sampling notice was provided to the NMOCD and on 4/04/2025, 24 five-point composite samples were obtained throughout the entire excavated area(s) to confirm impacted soils are within the most stringent *Table I Closure Criteria for Soils Impacted by a Release.* Soil samples were immediately placed and maintained on ice, in custody of COMM personnel until relinquished to Cardinal Laboratories in Hobbs, New Mexico on 4/04/2025.

Soil sampling occurred as follows:

- (15) Five-Point Composite soil samples were collected from the floor of the excavated area.
- (8) Five-Point Composite soil samples were collected from the sidewalls of the excavated area.
- (1) Background sample was collected 76' west of the impacted area.

Each sample point above is representative of 200 ft^2 or less.

Table 1 Closure Criteria for Soils Impacted by a Release			
Minimum depth below any point within the horizontal boundary of the release to groundwater less than 10,000 mg/l TDS	Constituent	Method	Limit
< 50 feet depth to groundwater.	Total Chlorides	EPA 300.0 or SM4500 CI B	600 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	100 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

Showing the sampling grid for the Tomcat 16 State #003 for samples collected on 02/13/2025.

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Sampling Log – Table 2

Project: 240646	Date: 02/13/2025
Client: Harvard Petroleum Company	Site: Tomcat 16 State #003
Standard: <50 feet depth to groundwater	Sampler: Ryan Gleason

Sample Id	Depth	Area	Method *(Grab or 5-Point Composite)*	Odor or Staining	Notes
F1 18”	18”	West of well-pad	Five-Point Composite	No	Fine sand
F2 18”	18”	West of well-pad	Five-Point Composite	No	Fine sand
F3 12”	12”	West of well-pad	Five-Point Composite	No	Fine sand
F4 12”	12”	West of well-pad	Five-Point Composite	No	Fine sand
F5 12”	12”	West of well-pad	Five-Point Composite	No	Fine sand
F6 18”	18”	West of well-pad	Five-Point Composite	No	Fine sand
F7 18”	18”	West of well-pad	Five-Point Composite	No	Fine sand
F8 18”	18”	West of well-pad	Five-Point Composite	No	Fine sand
F9 12”	12”	West of well-pad	Five-Point Composite	No	Fine sand
F10 12”	12”	West of well-pad	Five-Point Composite	No	Fine sand
F11 18”	18”	West of well-pad	Five-Point Composite	No	Fine sand
F12 18”	18”	West of well-pad	Five-Point Composite	No	Fine sand
F13 12”	12”	West of well-pad	Five-Point Composite	No	Fine sand
F14 18”	18”	West of well-pad	Five-Point Composite	No	Fine sand
F15 18”	18”	West of well-pad	Five-Point Composite	No	Fine sand
SW1	-	West of well-pad	Five-Point Composite	No	Fine sand
SW2	-	West of well-pad	Five-Point Composite	No	Fine sand
SW3	-	West of well-pad	Five-Point Composite	No	Fine sand
SW4	-	West of well-pad	Five-Point Composite	No	Fine sand
SW5	-	West of well-pad	Five-Point Composite	No	Fine sand
BG1	-	West of well-pad	Grab	No	Fine sand

A: Assessment ***C: Confirmation*** ***D: Delineation*** ***F: Floor*** ***SW: Sidewall*** ***BG: Background***

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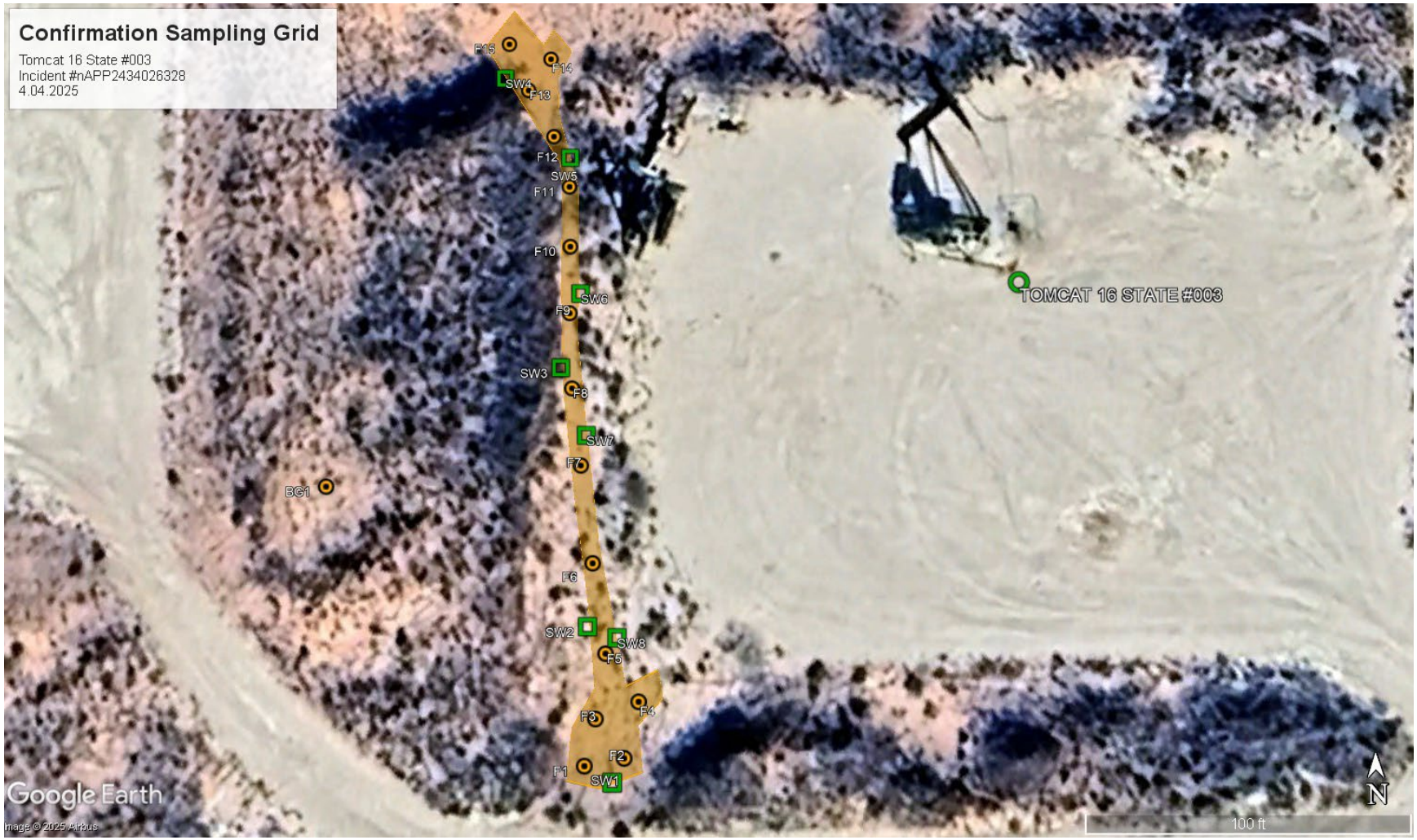
Table 3 Certified Analytical Results Summary									
Sample Id	Date	Depth	TPH C6-C35 (mg/kg)	GRO C6-C12 (mg/kg)	DRO C12-28 (mg/kg)	EXT DRO C28-C35 (mg/kg)	Chloride (mg/kg)	BTEX (mg/kg)	Benzene (mg/kg)
F1 18”	02/13/2025	18”	<50	<50.0	<50.0	<50.0	15.3	<50.0	<0.050
F2 18”	02/13/2025	18”	<50	<50.0	<50.0	<50.0	<8.00	<50.0	<0.050
F3 12”	02/13/2025	12”	<50	<50.0	<50.0	<50.0	11.8	<50.0	<0.050
F4 12”	02/13/2025	12”	59.1	<50.0	59.1	<50.0	21.2	<50.0	<0.050
F5 12”	02/13/2025	12”	<50	<50.0	<50.0	<50.0	18.1	<50.0	<0.050
F6 18”	02/13/2025	18”	**209**	<50.0	**209**	<50.0	22.7	<50.0	<0.050
F7 18”	02/13/2025	18”	<50	<50.0	<50.0	<50.0	<8.00	<50.0	<0.050
F8 18”	02/13/2025	18”	**728**	<50.0	**728**	<50.0	41.2	<50.0	<0.050
F9 12”	02/13/2025	12”	**150**	<50.0	**150**	<50.0	<8.00	<50.0	<0.050
F10 12”	02/13/2025	12”	**114**	<50.0	**114**	<50.0	14.7	<50.0	<0.050
F11 18”	02/13/2025	18”	**227**	<50.0	**227**	<50.0	12.2	<50.0	<0.050
F12 18”	02/13/2025	18”	**569**	<50.0	**569**	<50.0	16.8	<50.0	<0.050
F13 12”	02/13/2025	12”	**531**	<50.0	**531**	<50.0	28.7	<50.0	<0.050
F14 18”	02/13/2025	18”	**252**	<50.0	**252**	<50.0	46.5	<50.0	<0.050
F15 18”	02/13/2025	18”	<50	<50.0	<50.0	<50.0	12.7	<50.0	<0.050
SW1	02/13/2025	N/A	53.8	<50.0	53.8	<50.0	10.7	<50.0	<0.050
SW2	02/13/2025	N/A	<50	<50.0	<50.0	<50.0	14.0	<50.0	<0.050
SW3	02/13/2025	N/A	<50	<50.0	<50.0	<50.0	31.8	<50.0	<0.050
SW4	02/13/2025	N/A	**186**	<50.0	**186**	<50.0	15.5	<50.0	<0.050

SW5	02/13/2025	N/A	83.1	<50.0	<50.0	<50.0	9.72	<50.0	<0.050
BG1	02/13/2025	N/A	N/A	N/A	N/A	N/A	3.57	N/A	N/A

A: Assessment *C: Confirmation* *D: Delineation* *F: Floor* *SW: Sidewall* *BG: Background*



Showing the sampling grid for the Tomcat 16 State #003 for confirmation samples collected on 04/04/2025

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Sampling Log – Table 4

Project: 240646	Date: 4/04/2025
Client: Harvard Petroleum Company	Site: Tomcat 16 State #003
Standard: <50 feet depth to groundwater	Sampler: Ryan Gleason

Sample Id	Depth	Area	Method *(Grab or 5-Point Composite)*	Odor or Staining	Notes
F1 18”	18”	West of well-pad	Five-Point Composite	No	Fine sand
F2 18”	18”	West of well-pad	Five-Point Composite	No	Fine sand
F3 12”	12”	West of well-pad	Five-Point Composite	No	Fine sand
F4 12”	12”	West of well-pad	Five-Point Composite	No	Fine sand
F5 12”	12”	West of well-pad	Five-Point Composite	No	Fine sand
F6 30”	30”	West of well-pad	Five-Point Composite	No	Fine sand
F7 18”	18”	West of well-pad	Five-Point Composite	No	Fine sand
F8 30”	30”	West of well-pad	Five-Point Composite	No	Fine sand
F9 30”	30”	West of well-pad	Five-Point Composite	No	Fine sand
F10 30”	30”	West of well-pad	Five-Point Composite	No	Fine sand
F11 30”	30”	West of well-pad	Five-Point Composite	No	Fine sand
F12 30”	30”	West of well-pad	Five-Point Composite	No	Fine sand
F13 24”	24”	West of well-pad	Five-Point Composite	No	Fine sand
F14 30”	30”	West of well-pad	Five-Point Composite	No	Fine sand
F15 18”	18”	West of well-pad	Five-Point Composite	No	Fine sand
SW1	-	West of well-pad	Five-Point Composite	No	Fine sand
SW2	-	West of well-pad	Five-Point Composite	No	Fine sand
SW3	-	West of well-pad	Five-Point Composite	No	Fine sand
SW4	-	West of well-pad	Five-Point Composite	No	Fine sand
SW5	-	West of well-pad	Five-Point Composite	No	Fine sand
SW6	-	West of well-pad	Five-Point Composite	No	Fine sand
SW7	-	West of well-pad	Five-Point Composite	No	Fine sand
SW8	-	West of well-pad	Five-Point Composite	No	Fine sand
BG1	-	West of well-pad	Grab	No	Fine sand

A: Assessment *C: Confirmation* *D: Delineation* *F: Floor* *SW: Sidewall* *BG: Background*

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Table 5
Certified Analytical Results Summary

Sample Id	Date	Depth	TPH C6-C36 (mg/kg)	GRO C6-C10 (mg/kg)	DRO C10-28 (mg/kg)	EXT DRO C28-C36 (mg/kg)	Chloride (mg/kg)	BTEX (mg/kg)	Benzene (mg/kg)
F1 18”	4/04/2025	18”	<10.0	<10.0	<10.0	<10.0	<16.0	<.300	<0.050
F2 18”	4/04/2025	18”	<10.0	<10.0	<10.0	<10.0	<16.0	<.300	<0.050
F3 12”	4/04/2025	12”	<10.0	<10.0	<10.0	<10.0	<16.0	<.300	<0.050
F4 12”	4/04/2025	12”	<10.0	<10.0	<10.0	<10.0	<16.0	<.300	<0.050
F5 12”	4/04/2025	12”	<10.0	<10.0	<10.0	<10.0	<16.0	<.300	<0.050
F6 30”	4/04/2025	30”	<10.0	<10.0	<10.0	<10.0	<16.0	<.300	<0.050
F7 18”	4/04/2025	18”	<10.0	<10.0	<10.0	<10.0	<16.0	<.300	<0.050
F8 30”	4/04/2025	30”	<10.0	<10.0	<10.0	<10.0	<16.0	<.300	<0.050
F9 30”	4/04/2025	30”	<10.0	<10.0	<10.0	<10.0	<16.0	<.300	<0.050
F10 30”	4/04/2025	30”	<10.0	<10.0	<10.0	<10.0	<16.0	<.300	<0.050
F11 30”	4/04/2025	30”	<10.0	<10.0	<10.0	<10.0	<16.0	<.300	<0.050
F12 30”	4/04/2025	30”	<10.0	<10.0	<10.0	<10.0	<16.0	<.300	<0.050
F13 24”	4/04/2025	24”	<10.0	<10.0	<10.0	<10.0	<16.0	<.300	<0.050
F14 30”	4/04/2025	30”	<10.0	<10.0	<10.0	<10.0	<16.0	<.300	<0.050
F15 18”	4/04/2025	18”	<10.0	<10.0	<10.0	<10.0	<16.0	<.300	<0.050
SW1	4/04/2025	-	<10.0	<10.0	<10.0	<10.0	<16.0	<.300	<0.050
SW2	4/04/2025	-	<10.0	<10.0	<10.0	<10.0	<16.0	<.300	<0.050
SW3	4/04/2025	-	<10.0	<10.0	<10.0	<10.0	<16.0	<.300	<0.050

SW4	4/04/2025	-	<10.0	<10.0	<10.0	<10.0	<16.0	<.300	<0.050
SW5	4/04/2025	-	<10.0	<10.0	<10.0	<10.0	<16.0	<.300	<0.050
SW6	4/04/2025	-	<10.0	<10.0	<10.0	<10.0	16.0	<.300	<0.050
SW7	4/04/2025	-	<10.0	<10.0	<10.0	<10.0	16.0	<.300	<0.050
SW8	4/04/2025	-	<10.0	<10.0	<10.0	<10.0	<16.0	<.300	<0.050
BG1	4/04/2025	Surface	N/A	N/A	N/A	N/A	<16.0	N/A	N/A

A: Assessment ***C: Confirmation*** ***D: Delineation*** ***F: Floor*** ***SW: Sidewall*** ***BG: Background***

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Site Photographic Log

1	2	3	4
			
Showing impacted area before excavation.	*Showing impacted area before excavation.*	*Showing impacted area before excavation.*	*Showing impacted area before excavation.*

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Site Photographic Log

5	6	7	8
			
Showing impacted area before excavation.	***Showing impacted area after excavation and sample locations F1, F2, F3, F4, SW1.***	***Showing impacted area after excavation and sample locations F1, F2, F3, F4, SW1.***	***Showing impacted area after excavation and sample locations F1, F2, F3, F4, F5, F6, F7, SW1, SW2, SW5.***

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Site Photographic Log

9	10	11	12
			
Showing impacted area after excavation and sample locations F8, F9, SW4.	***Showing impacted area after excavation and sample locations F10, F11.***	***Showing impacted area after excavation.***	***Showing impacted area after excavation.***

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Site Photographic Log

13	14	15	16
			
Showing impacted area after excavation and sample locations F12, F14, SW3.	***Showing impacted area after excavation and sample locations F13, F15, SW3.***	***Showing impacted area after excavation and sample locations F13, F15, SW3.***	***Showing impacted area after excavation and sample locations SW3, F15***

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Site Photographic Log

17

Showing impacted area after excavation and sample locations F15, SW3.

End of photographs taken on 02/12/2025

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Site Photographic Log

18	19	20	21
			
Showing the majority of the impacted area (F1 – F11) after re-excavation.	***Showing the majority of the impacted area (F1 – F11) after re-excavation.***	***Showing the majority of the impacted area (F1 – F11) after re-excavation.***	***Showing the impacted area (F4) after re-excavation.***

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Site Photographic Log

21	22	23	24
			
Showing the impacted area (F9 – F11, SW5, SW6) after re-excavation.	***Showing the impacted area (F11, SW5) after re-excavation.***	***Showing the impacted area (F11 – F1, SW6, SW3, SW7, SW2, SW8, SW1) after re-excavation.***	***Showing the impacted area (F12, F14) after re-excavation.***

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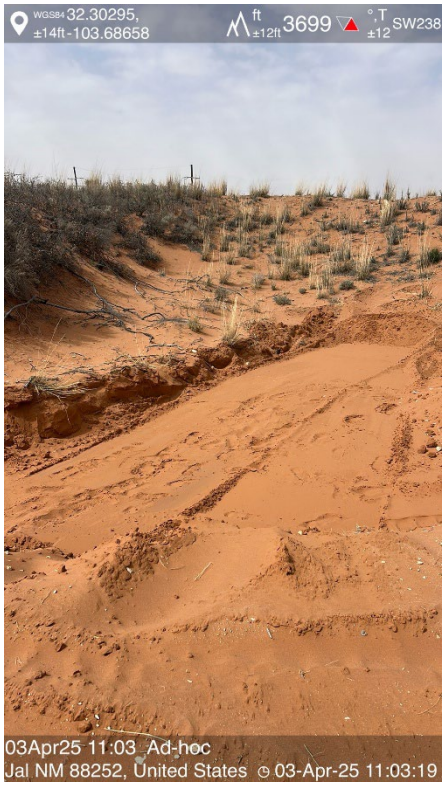
Site Photographic Log

25	26
	
Showing the impacted area (F11, F12, SW5) after re-excavation.	***Showing the impacted area (F13, F15, SW4) after re-excavation.***

Limitations:

This report has been prepared for the sole benefit of Harvard Petroleum Company, LLC. This document may not be used by any other person or entity, with exception of the New Mexico Oil Conservation Division. Any use of this report by a third party, or any reliance on decisions made based on it, or damages suffered as a result of the use of this report, are the sole responsibility of the user.

The information and conclusions contained in this report are based upon work undertaken by trained professionals and technical staff in accordance with generally accepted scientific practices current at the time the work was performed. The conclusions and recommendations presented represent the best judgement of COMM Engineering based on the data collected during the project. Due to the nature of this project, COMM Engineering cannot warrant against undiscovered environmental liabilities. Conclusions and recommendations presented in this report should not be considered legal advice.

If there are any questions regarding this report, please contact Ryan Gleason at rlgleason@commengineering.com

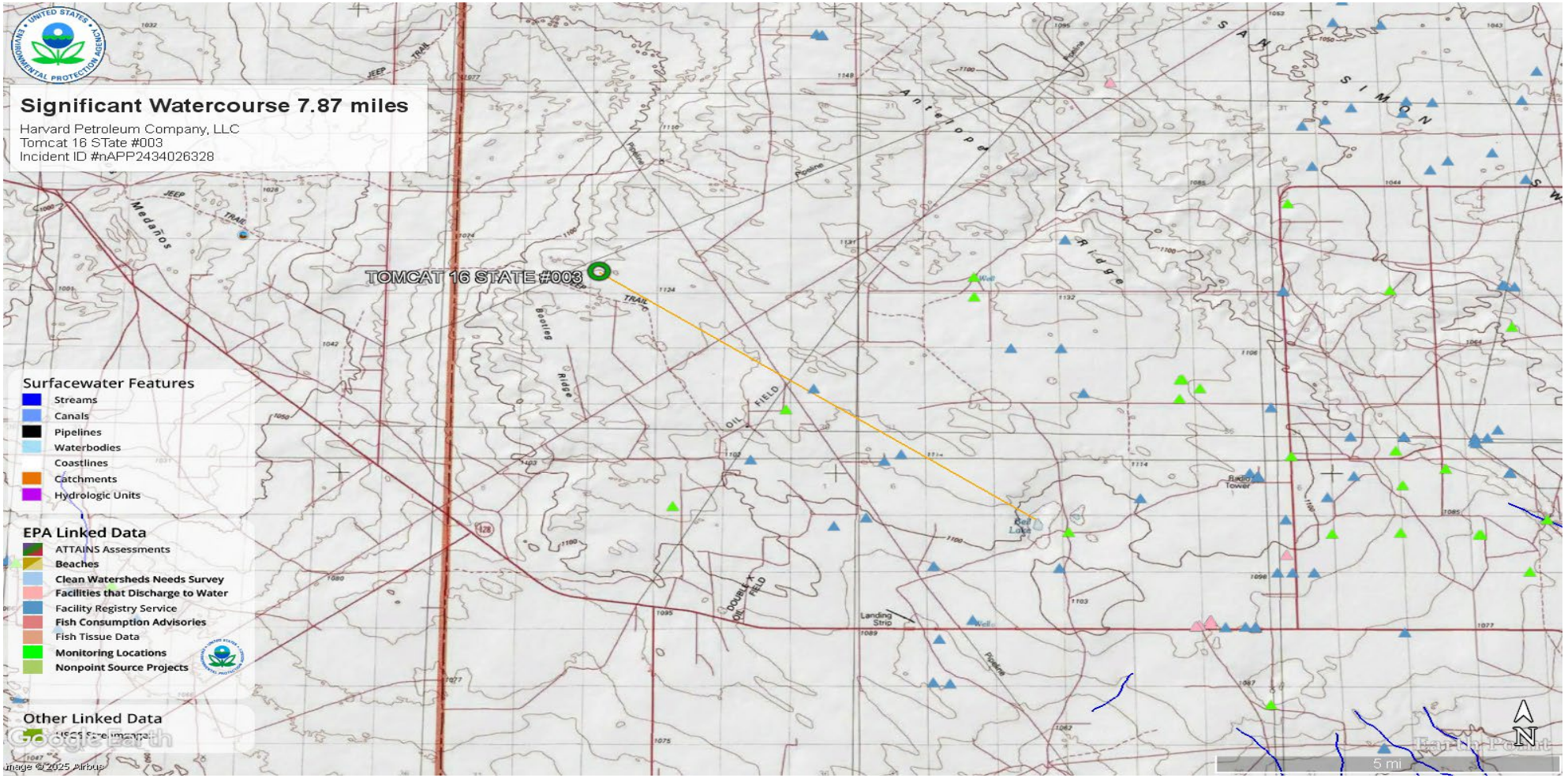
Sincerely,

Ryan Gleason
Environmental Specialist
COMM Engineering
rlgleason@commengineering.com

Figures:

Attachments:

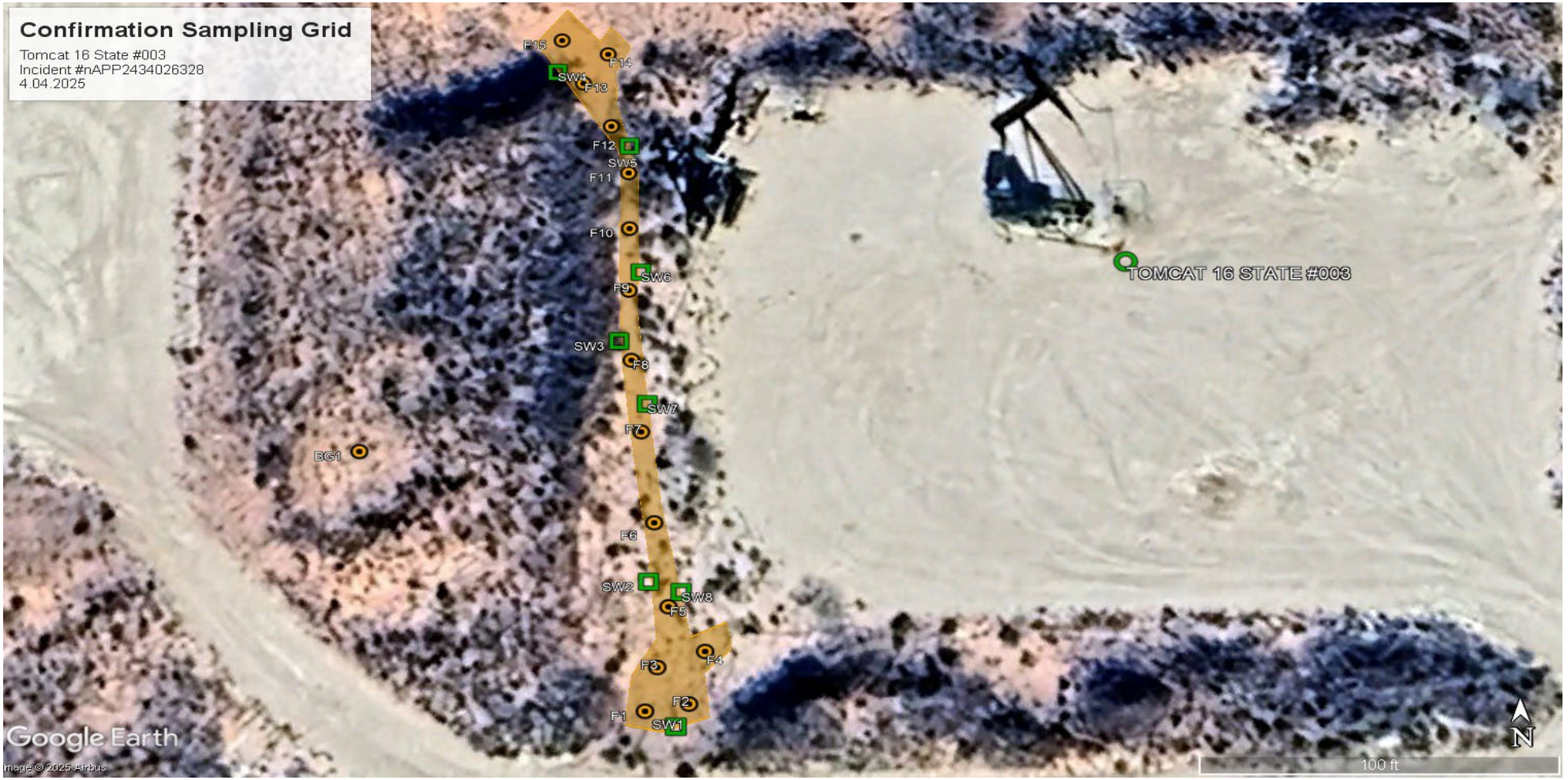
FIGURES



COMM ENGINEERING	**Significant Watercourse** Harvard Petroleum Company, LLC Tomcat 16 State #003 32.302722° North, -103.686035° West Unit L, Sec. 16, T23S, R32E Lea County, New Mexico	**FIGURE** 1

COMM ENGINEERING	**USGS 7.5-minute quadrangle Topo** Harvard Petroleum Company, LLC Tomcat 16 State #003 32.302722° North, -103.686035° West Unit L, Sec. 16, T23S, R32E Lea County, New Mexico	**FIGURE** 2

COMM ENGINEERING	**Sample Points – 02.13.2025** Harvard Petroleum Company, LLC Tomcat 16 State #003 32.302722° North, -103.686035° West Unit L, Sec. 16, T23S, R32E Lea County, New Mexico	**FIGURE** 3



COMM ENGINEERING	**Confirmation Sample Points – 4.04.2025** Harvard Petroleum Company, LLC Tomcat 16 State #003 32.302722° North, -103.686035° West Unit L, Sec. 16, T23S, R32E Lea County, New Mexico	**FIGURE** 4

ATTACHMENTS

U.S. Fish and Wildlife Service
National Wetlands Inventory

Tomcat 16 State #003 - 2.34 miles

May 10, 2025

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 Wetlands Inventory (NWI)
This page was produced by the NWI mapper

National Flood Hazard Layer FIRMette

FEMA

103°41'29"W 32°18'25"N

103°40'51"W 32°17'54"N

0 250 500 1,000 1,500 2,000 Feet

1:6,000

Basemap Imagery Source: USGS National Map 2023

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 / 17.5 Cross Sections with 1% Annual Chance / Water Surface Elevation
- Coastal Transect
- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

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 5/10/2025 at 8:48 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.

United States Department of Agriculture

NRCS

Natural Resources Conservation Service

A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

Custom Soil Resource Report for Lea County, New Mexico

February 26, 2025

Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (https://offices.sc.egov.usda.gov/locator/app?agency=nrcs) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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Contents

How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.

Custom Soil Resource Report
Soil Map

Custom Soil Resource Report

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Lea County, New Mexico
Survey Area Data: Version 21, Sep 3, 2024

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Feb 7, 2020—May 12, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
KD	Kermit-Palomas fine sands, 0 to 12 percent slopes	2.6	100.0%
Totals for Area of Interest		**2.6**	**100.0%**

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Lea County, New Mexico

KD—Kermit-Palomas fine sands, 0 to 12 percent slopes

Map Unit Setting

National map unit symbol: dmpv
Elevation: 3,000 to 4,400 feet
Mean annual precipitation: 10 to 12 inches
Mean annual air temperature: 60 to 62 degrees F
Frost-free period: 190 to 205 days
Farmland classification: Not prime farmland

Map Unit Composition

Kermit and similar soils: 70 percent
Palomas and similar soils: 20 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Kermit

Setting

Landform: Dunes
Landform position (two-dimensional): Shoulder, backslope, footslope
Landform position (three-dimensional): Side slope
Down-slope shape: Concave, convex, linear
Across-slope shape: Convex
Parent material: Calcareous sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 8 inches: fine sand
C - 8 to 60 inches: fine sand

Properties and qualities

Slope: 3 to 12 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Excessively drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): Very high (20.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Maximum salinity: Nonsaline (0.0 to 1.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Low (about 3.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: A
Ecological site: R070BD005NM - Deep Sand
Hydric soil rating: No

Description of Palomas

Setting

Landform: Dunes

Landform position (two-dimensional): Shoulder, backslope, footslope
Landform position (three-dimensional): Side slope
Down-slope shape: Concave, convex, linear
Across-slope shape: Convex
Parent material: Alluvium derived from sandstone

Typical profile

A - 0 to 16 inches: fine sand
Bt - 16 to 60 inches: sandy clay loam
Bk - 60 to 66 inches: sandy loam

Properties and qualities

Slope: 0 to 5 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 50 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Moderate (about 7.5 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: B
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Minor Components

Pyote

Percent of map unit: 4 percent
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Maljamar

Percent of map unit: 4 percent
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Palomas

Percent of map unit: 1 percent
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Dune land

Percent of map unit: 1 percent
Hydric soil rating: No

Custom Soil Resource Report

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Point of Diversion Summary

quarters are 1=NW 2=NE 3=SW 4=SE
quarters are smallest to largest

NAD83 UTM in meters

Well Tag	POD Nbr	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map
NA	C 04712 POD2	SE	SE	SE	17	23S	32E	623331.9	3574331.5	

*** UTM location was derived from PLSS - see Help**

Driller License:	1833	**Driller Company:**	VISION RESOURCES, INC		
Driller Name:	JASON MALEY				
Drill Start Date:	2023-03-09	**Drill Finish Date:**	2023-03-09	**Plug Date:**	2023-03-14
Log File Date:	2023-04-04	**PCW Rcv Date:**		**Source:**	
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	
Casing Size:		**Depth Well:**	55	**Depth Water:**	

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
~~C-4712~~ POD2		C-4712

WELL OWNER NAME(S)	PHONE (OPTIONAL)
Harvard Petroleum Company	

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
P.O. Box 936	Roswell	NM	88202

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	17	56.4	N
	LONGITUDE	-103	41	24.2	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
1833	Jason Maley	Vision Resources

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
3-9-2023	3-9-2023	55	55	Dry

COMPLETED WELL IS: ☐ ARTESIAN *add Centralizer info below ☑ DRY HOLE ☐ SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT): Dry

DATE STATIC MEASURED: Dry

DRILLING FLUID: ☑ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☑ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ OTHER – SPECIFY:

CHECK HERE IF PITLESS ADAPTER IS INSTALLED ☐

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	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)
			None				

OSE DIT APR 4 2023 PM 1:23

3. ANNULAR MATERIAL

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

FOR OSE INTERNAL USE

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

FILE NO. C-4712-POD2	POD NO. 2	TRN NO. 743189	
LOCATION Mon 23.32.17.444		WELL TAG ID NO.	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	35	35	White Caliche	Y (N)	
35	55	55	Red Fine Sand Dry	Y (N)	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): Dry

5. TEST; RIG SUPERVISION

WELL TEST — TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION:

hole would not stay open past 35'
Plugged No water

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

OSE DII APR 4 2023 PM1:23

6. SIGNATURE

THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:

Jason Maloy — 3/24/23

SIGNATURE OF DRILLER / PRINT SIGNEE NAME — DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 09/22/2022)

FILE NO. C-4712-POD 2	POD NO. 2	TRN NO. 743189
LOCATION Mon 23.32.17.444	WELL TAG ID NO.	PAGE 2 OF 2

Mike A. Hamman, P.E.
State Engineer

Roswell Office
1900 WEST SECOND STREET
ROSWELL, NM 88201

STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER

Trn Nbr: 743189
File Nbr: C 04712
Well File Nbr: C 04712 POD2

Apr. 04, 2023

VERTEX RESOURCES
P.O. BOX 936
ROSWELL, NM 88202

Greetings:

The above numbered permit was issued in your name on 02/21/2023.

The Well Record was received in this office on 04/04/2023, stating that it had been completed on 03/09/2023, and was a dry well. The well is to be plugged according to 19.27.4.30 NMAC.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 02/21/2024.

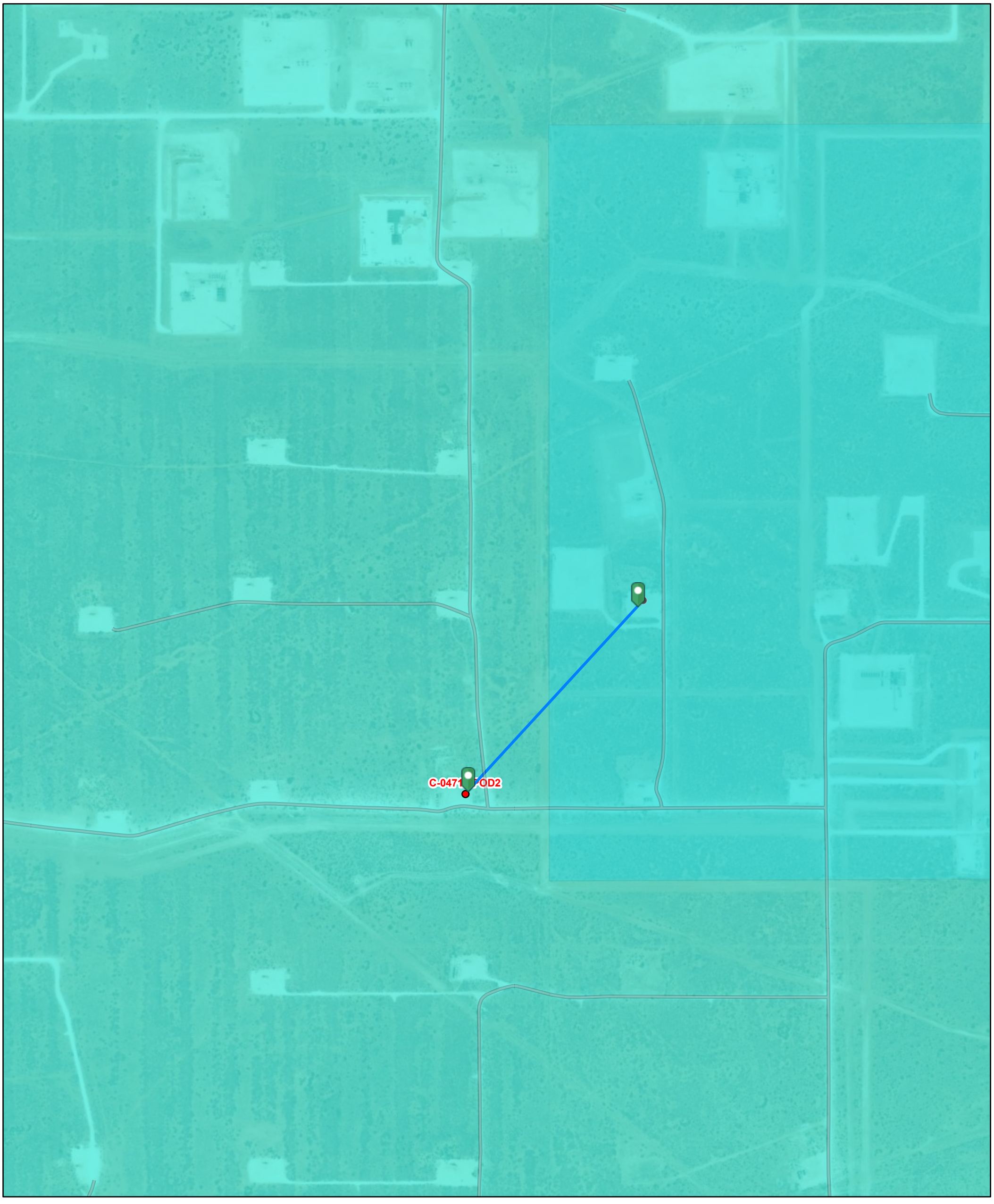
If you have any questions, please feel free to contact us.

Sincerely,

Maret Thompson
(575)622-6521

drywell

Tomcat 16 State #003



5/10/2025, 4:05:55 PM

GIS WATERS PODs

Plugged

OSE District Boundary

Water Right Regulations

Closure Area

Artesian Plan Area

New Mexico State Trust Lands

Both Estates

1:9,028

0 0.07 0.15 0.3 mi

0 0.13 0.25 0.5 km

Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, (c) OpenStreetMap contributors, and the GIS User Community, Maxar

Online web user

This is an unofficial map from the OSE's online application.

Laboratory Analytical Report

ENVIRONMENTAL TESTING, INC.
4619 N. Santa Fe Ave
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

21 February 2025

Mr. Ryan Gleason

Comm Engineering
1319 W. Pinhook Rd. Ste 401
Lafayette, LA 70503

WO: E5B0230
RE: Tomcat 16 State #003

Enclosed are the results of analyses for samples received by the laboratory on 2/14/2025. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Keith Hopcus For Russell Britten
CEO

Original (P)

E 5 B 0 2 3 0

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe Ave
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Comm Engineering
1319 W. Pinhook Rd. Ste 401
Lafayette LA, 70503

Project: Tomcat 16 State #003
Project Number: 240646
Project Manager: Mr. Ryan Gleason

Reported:
02/21/25 15:26

F1 18"

E5B0230-01 (Solid) - Sampled: 02/13/25 08:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
Volatile Organic Compounds by EPA Method 8021									
Benzene	<0.024	0.024	mg/Kg	0.963	ENB0363	BLS	02/17/25 14:13	EPA 8021B 1996	
Toluene	<0.024	0.024	mg/Kg	0.963	ENB0363	BLS	02/17/25 14:13	EPA 8021B 1996	
Ethylbenzene	<0.024	0.024	mg/Kg	0.963	ENB0363	BLS	02/17/25 14:13	EPA 8021B 1996	
Xylenes (total)	<0.072	0.072	mg/Kg	0.963	ENB0363	BLS	02/17/25 14:13	EPA 8021B 1996	
Surrogate: a,a,a-Trifluorotoluene		*98 %*		*45.4-152*	*ENB0363*	BLS	*02/17/25 14:13*	*EPA 8021B 1996*	
Surrogate: 4-Bromofluorobenzene		*97 %*		*41.7-151*	*ENB0363*	BLS	*02/17/25 14:13*	*EPA 8021B 1996*	
Petroleum Hydrocarbons by TNRCC 1005									
TPH (C6 to C12)	<50.0	50.0	mg/Kg	1	ENB0395	BLS	02/20/25 07:18	TNRCC 1005 2001	
TPH (>C12 to C28)	<50.0	50.0	mg/Kg	1	ENB0395	BLS	02/20/25 07:18	TNRCC 1005 2001	
TPH (>C28 to C35)	<50.0	50.0	mg/Kg	1	ENB0395	BLS	02/20/25 07:18	TNRCC 1005 2001	
TPH (C6 to C35)	<150	150	mg/Kg	1	ENB0395	BLS	02/20/25 07:18	TNRCC 1005 2001	
Surrogate: Chlorooctane		*118 %*		*70-130*	*ENB0395*	BLS	*02/20/25 07:18*	*TNRCC 1005 2001*	
Surrogate: Chlorooctadecane		*122 %*		*70-130*	*ENB0395*	BLS	*02/20/25 07:18*	*TNRCC 1005 2001*	
TPH 1005 Extraction	-	-	N/A	1	ENB0395	VAH	02/19/25 12:30	TNRCC 1005 2001	
Anions by EPA Method 300.0									
Chloride	**15.3**	8.00	mg/Kg	5	ENB0423	JRH	02/19/25 19:40	EPA 300.0 1993	

Environmental Testing, Inc.

Keith Hopcus For Russell Britton, CEO

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ENVIRONMENTAL TESTING, INC.

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Oklahoma City, OK 73118
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405.488.2404 Fax
www.etilab.com

Comm Engineering
1319 W. Pinhook Rd. Ste 401
Lafayette LA, 70503

Project: Tomcat 16 State #003
Project Number: 240646
Project Manager: Mr. Ryan Gleason

Reported:
02/21/25 15:26

F2 18''

E5B0230-02 (Solid) - Sampled: 02/13/25 08:40

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
Volatile Organic Compounds by EPA Method 8021									
Benzene	<0.025	0.025	mg/Kg	0.981	ENB0363	BLS	02/17/25 15:33	EPA 8021B 1996	
Toluene	<0.025	0.025	mg/Kg	0.981	ENB0363	BLS	02/17/25 15:33	EPA 8021B 1996	
Ethylbenzene	<0.025	0.025	mg/Kg	0.981	ENB0363	BLS	02/17/25 15:33	EPA 8021B 1996	
Xylenes (total)	<0.074	0.074	mg/Kg	0.981	ENB0363	BLS	02/17/25 15:33	EPA 8021B 1996	
Surrogate: a,a,a-Trifluorotoluene		*101 %*		*45.4-152*	*ENB0363*	BLS	*02/17/25 15:33*	*EPA 8021B 1996*	
Surrogate: 4-Bromofluorobenzene		*99 %*		*41.7-151*	*ENB0363*	BLS	*02/17/25 15:33*	*EPA 8021B 1996*	
Petroleum Hydrocarbons by TNRCC 1005									
TPH (C6 to C12)	<50.0	50.0	mg/Kg	1	ENB0395	BLS	02/20/25 07:44	TNRCC 1005 2001	
TPH (>C12 to C28)	<50.0	50.0	mg/Kg	1	ENB0395	BLS	02/20/25 07:44	TNRCC 1005 2001	
TPH (>C28 to C35)	<50.0	50.0	mg/Kg	1	ENB0395	BLS	02/20/25 07:44	TNRCC 1005 2001	
TPH (C6 to C35)	<150	150	mg/Kg	1	ENB0395	BLS	02/20/25 07:44	TNRCC 1005 2001	
Surrogate: Chlorooctane		*118 %*		*70-130*	*ENB0395*	BLS	*02/20/25 07:44*	*TNRCC 1005 2001*	
Surrogate: Chlorooctadecane		*121 %*		*70-130*	*ENB0395*	BLS	*02/20/25 07:44*	*TNRCC 1005 2001*	
TPH 1005 Extraction	-	-	N/A	1	ENB0395	VAH	02/19/25 12:30	TNRCC 1005 2001	
Anions by EPA Method 300.0									
Chloride	<8.00	8.00	mg/Kg	5	ENB0423	JRH	02/19/25 20:36	EPA 300.0 1993	

Environmental Testing, Inc.

Keith Hopcus For Russell Britton, CEO

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405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Comm Engineering
1319 W. Pinhook Rd. Ste 401
Lafayette LA, 70503

Project: Tomcat 16 State #003
Project Number: 240646
Project Manager: Mr. Ryan Gleason

Reported:
02/21/25 15:26

F3 12''

E5B0230-03 (Solid) - Sampled: 02/13/25 08:50

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
Volatile Organic Compounds by EPA Method 8021									
Benzene	<0.025	0.025	mg/Kg	0.981	ENB0363	BLS	02/17/25 15:53	EPA 8021B 1996	
Toluene	<0.025	0.025	mg/Kg	0.981	ENB0363	BLS	02/17/25 15:53	EPA 8021B 1996	
Ethylbenzene	<0.025	0.025	mg/Kg	0.981	ENB0363	BLS	02/17/25 15:53	EPA 8021B 1996	
Xylenes (total)	<0.074	0.074	mg/Kg	0.981	ENB0363	BLS	02/17/25 15:53	EPA 8021B 1996	
Surrogate: a,a,a-Trifluorotoluene		*101 %*		*45.4-152*	*ENB0363*	BLS	*02/17/25 15:53*	*EPA 8021B 1996*	
Surrogate: 4-Bromofluorobenzene		*95 %*		*41.7-151*	*ENB0363*	BLS	*02/17/25 15:53*	*EPA 8021B 1996*	
Petroleum Hydrocarbons by TNRCC 1005									
TPH (C6 to C12)	<50.0	50.0	mg/Kg	1	ENB0395	BLS	02/20/25 08:09	TNRCC 1005 2001	
TPH (>C12 to C28)	<50.0	50.0	mg/Kg	1	ENB0395	BLS	02/20/25 08:09	TNRCC 1005 2001	
TPH (>C28 to C35)	<50.0	50.0	mg/Kg	1	ENB0395	BLS	02/20/25 08:09	TNRCC 1005 2001	
TPH (C6 to C35)	<150	150	mg/Kg	1	ENB0395	BLS	02/20/25 08:09	TNRCC 1005 2001	
Surrogate: Chlorooctane		*117 %*		*70-130*	*ENB0395*	BLS	*02/20/25 08:09*	*TNRCC 1005 2001*	
Surrogate: Chlorooctadecane		*121 %*		*70-130*	*ENB0395*	BLS	*02/20/25 08:09*	*TNRCC 1005 2001*	
TPH 1005 Extraction	-	-	N/A	1	ENB0395	VAH	02/19/25 12:30	TNRCC 1005 2001	
Anions by EPA Method 300.0									
Chloride	**11.8**	8.00	mg/Kg	5	ENB0423	JRH	02/19/25 20:55	EPA 300.0 1993	

Environmental Testing, Inc.

Keith Hopcus For Russell Britton, CEO

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Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Comm Engineering
1319 W. Pinhook Rd. Ste 401
Lafayette LA, 70503

Project: Tomcat 16 State #003
Project Number: 240646
Project Manager: Mr. Ryan Gleason

Reported:
02/21/25 15:26

F4 12''

E5B0230-04 (Solid) - Sampled: 02/13/25 09:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
Volatile Organic Compounds by EPA Method 8021									
Benzene	<0.025	0.025	mg/Kg	0.997	ENB0363	BLS	02/17/25 16:13	EPA 8021B 1996	
Toluene	<0.025	0.025	mg/Kg	0.997	ENB0363	BLS	02/17/25 16:13	EPA 8021B 1996	
Ethylbenzene	<0.025	0.025	mg/Kg	0.997	ENB0363	BLS	02/17/25 16:13	EPA 8021B 1996	
Xylenes (total)	<0.075	0.075	mg/Kg	0.997	ENB0363	BLS	02/17/25 16:13	EPA 8021B 1996	
Surrogate: a,a,a-Trifluorotoluene		*95 %*		*45.4-152*	*ENB0363*	BLS	*02/17/25 16:13*	*EPA 8021B 1996*	
Surrogate: 4-Bromofluorobenzene		*96 %*		*41.7-151*	*ENB0363*	BLS	*02/17/25 16:13*	*EPA 8021B 1996*	
Petroleum Hydrocarbons by TNRCC 1005									
TPH (C6 to C12)	<50.0	50.0	mg/Kg	1	ENB0395	BLS	02/20/25 08:35	TNRCC 1005 2001	
TPH (>C12 to C28)	**59.1**	50.0	mg/Kg	1	ENB0395	BLS	02/20/25 08:35	TNRCC 1005 2001	
TPH (>C28 to C35)	<50.0	50.0	mg/Kg	1	ENB0395	BLS	02/20/25 08:35	TNRCC 1005 2001	
TPH (C6 to C35)	<150	150	mg/Kg	1	ENB0395	BLS	02/20/25 08:35	TNRCC 1005 2001	
Surrogate: Chlorooctane		*103 %*		*70-130*	*ENB0395*	BLS	*02/20/25 08:35*	*TNRCC 1005 2001*	
Surrogate: Chlorooctadecane		*108 %*		*70-130*	*ENB0395*	BLS	*02/20/25 08:35*	*TNRCC 1005 2001*	
TPH 1005 Extraction	-	-	N/A	1	ENB0395	VAH	02/19/25 12:30	TNRCC 1005 2001	
Anions by EPA Method 300.0									
Chloride	**21.2**	8.00	mg/Kg	5	ENB0423	JRH	02/19/25 21:14	EPA 300.0 1993	

Environmental Testing, Inc.

Keith Hopcus For Russell Britton, CEO

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ENVIRONMENTAL TESTING, INC.

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Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Comm Engineering
1319 W. Pinhook Rd. Ste 401
Lafayette LA, 70503

Project: Tomcat 16 State #003
Project Number: 240646
Project Manager: Mr. Ryan Gleason

Reported:
02/21/25 15:26

F5 12"

E5B0230-05 (Solid) - Sampled: 02/13/25 09:10

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
Volatile Organic Compounds by EPA Method 8021									
Benzene	<0.024	0.024	mg/Kg	0.953	ENB0363	BLS	02/17/25 16:33	EPA 8021B 1996	
Toluene	<0.024	0.024	mg/Kg	0.953	ENB0363	BLS	02/17/25 16:33	EPA 8021B 1996	
Ethylbenzene	<0.024	0.024	mg/Kg	0.953	ENB0363	BLS	02/17/25 16:33	EPA 8021B 1996	
Xylenes (total)	<0.071	0.071	mg/Kg	0.953	ENB0363	BLS	02/17/25 16:33	EPA 8021B 1996	
Surrogate: a,a,a-Trifluorotoluene		*92 %*		*45.4-152*	*ENB0363*	BLS	*02/17/25 16:33*	*EPA 8021B 1996*	
Surrogate: 4-Bromofluorobenzene		*95 %*		*41.7-151*	*ENB0363*	BLS	*02/17/25 16:33*	*EPA 8021B 1996*	
Petroleum Hydrocarbons by TNRCC 1005									
TPH (C6 to C12)	<50.0	50.0	mg/Kg	1	ENB0395	BLS	02/20/25 09:00	TNRCC 1005 2001	
TPH (>C12 to C28)	<50.0	50.0	mg/Kg	1	ENB0395	BLS	02/20/25 09:00	TNRCC 1005 2001	
TPH (>C28 to C35)	<50.0	50.0	mg/Kg	1	ENB0395	BLS	02/20/25 09:00	TNRCC 1005 2001	
TPH (C6 to C35)	<150	150	mg/Kg	1	ENB0395	BLS	02/20/25 09:00	TNRCC 1005 2001	
Surrogate: Chlorooctane		*104 %*		*70-130*	*ENB0395*	BLS	*02/20/25 09:00*	*TNRCC 1005 2001*	
Surrogate: Chlorooctadecane		*108 %*		*70-130*	*ENB0395*	BLS	*02/20/25 09:00*	*TNRCC 1005 2001*	
TPH 1005 Extraction	-	-	N/A	1	ENB0395	VAH	02/19/25 12:30	TNRCC 1005 2001	
Anions by EPA Method 300.0									
Chloride	**18.1**	8.00	mg/Kg	5	ENB0423	JRH	02/19/25 21:33	EPA 300.0 1993	

Environmental Testing, Inc.

Keith Hopcus For Russell Britton, CEO

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Comm Engineering
1319 W. Pinhook Rd. Ste 401
Lafayette LA, 70503

Project: Tomcat 16 State #003
Project Number: 240646
Project Manager: Mr. Ryan Gleason

Reported:
02/21/25 15:26

F6 18''

E5B0230-06 (Solid) - Sampled: 02/13/25 09:20

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
Volatile Organic Compounds by EPA Method 8021									
Benzene	<0.024	0.024	mg/Kg	0.965	ENB0363	BLS	02/17/25 16:54	EPA 8021B 1996	
Toluene	<0.024	0.024	mg/Kg	0.965	ENB0363	BLS	02/17/25 16:54	EPA 8021B 1996	
Ethylbenzene	<0.024	0.024	mg/Kg	0.965	ENB0363	BLS	02/17/25 16:54	EPA 8021B 1996	
Xylenes (total)	<0.072	0.072	mg/Kg	0.965	ENB0363	BLS	02/17/25 16:54	EPA 8021B 1996	
Surrogate: a,a,a-Trifluorotoluene		*96 %*		*45.4-152*	*ENB0363*	BLS	*02/17/25 16:54*	*EPA 8021B 1996*	
Surrogate: 4-Bromofluorobenzene		*96 %*		*41.7-151*	*ENB0363*	BLS	*02/17/25 16:54*	*EPA 8021B 1996*	
Petroleum Hydrocarbons by TNRCC 1005									
TPH (C6 to C12)	<50.0	50.0	mg/Kg	1	ENB0395	BLS	02/20/25 09:26	TNRCC 1005 2001	
TPH (>C12 to C28)	**209**	50.0	mg/Kg	1	ENB0395	BLS	02/20/25 09:26	TNRCC 1005 2001	
TPH (>C28 to C35)	<50.0	50.0	mg/Kg	1	ENB0395	BLS	02/20/25 09:26	TNRCC 1005 2001	
TPH (C6 to C35)	**209**	150	mg/Kg	1	ENB0395	BLS	02/20/25 09:26	TNRCC 1005 2001	
Surrogate: Chlorooctane		*104 %*		*70-130*	*ENB0395*	BLS	*02/20/25 09:26*	*TNRCC 1005 2001*	
Surrogate: Chlorooctadecane		*107 %*		*70-130*	*ENB0395*	BLS	*02/20/25 09:26*	*TNRCC 1005 2001*	
TPH 1005 Extraction	-	-	N/A	1	ENB0395	VAH	02/19/25 12:30	TNRCC 1005 2001	
Anions by EPA Method 300.0									
Chloride	**22.7**	8.00	mg/Kg	5	ENB0423	JRH	02/19/25 21:51	EPA 300.0 1993	

Environmental Testing, Inc.

Keith Hopcus For Russell Britton, CEO

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www.etilab.com

Comm Engineering
1319 W. Pinhook Rd. Ste 401
Lafayette LA, 70503

Project: Tomcat 16 State #003
Project Number: 240646
Project Manager: Mr. Ryan Gleason

Reported:
02/21/25 15:26

F7 18"

E5B0230-07 (Solid) - Sampled: 02/13/25 09:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
Volatile Organic Compounds by EPA Method 8021									
Benzene	<0.024	0.024	mg/Kg	0.979	ENB0363	BLS	02/17/25 17:14	EPA 8021B 1996	
Toluene	<0.024	0.024	mg/Kg	0.979	ENB0363	BLS	02/17/25 17:14	EPA 8021B 1996	
Ethylbenzene	<0.024	0.024	mg/Kg	0.979	ENB0363	BLS	02/17/25 17:14	EPA 8021B 1996	
Xylenes (total)	<0.073	0.073	mg/Kg	0.979	ENB0363	BLS	02/17/25 17:14	EPA 8021B 1996	
Surrogate: a,a,a-Trifluorotoluene		*104 %*		*45.4-152*	*ENB0363*	BLS	*02/17/25 17:14*	*EPA 8021B 1996*	
Surrogate: 4-Bromofluorobenzene		*97 %*		*41.7-151*	*ENB0363*	BLS	*02/17/25 17:14*	*EPA 8021B 1996*	
Petroleum Hydrocarbons by TNRCC 1005									
TPH (C6 to C12)	<50.0	50.0	mg/Kg	1	ENB0395	BLS	02/20/25 09:52	TNRCC 1005 2001	
TPH (>C12 to C28)	<50.0	50.0	mg/Kg	1	ENB0395	BLS	02/20/25 09:52	TNRCC 1005 2001	
TPH (>C28 to C35)	<50.0	50.0	mg/Kg	1	ENB0395	BLS	02/20/25 09:52	TNRCC 1005 2001	
TPH (C6 to C35)	<150	150	mg/Kg	1	ENB0395	BLS	02/20/25 09:52	TNRCC 1005 2001	
Surrogate: Chlorooctane		*103 %*		*70-130*	*ENB0395*	BLS	*02/20/25 09:52*	*TNRCC 1005 2001*	
Surrogate: Chlorooctadecane		*107 %*		*70-130*	*ENB0395*	BLS	*02/20/25 09:52*	*TNRCC 1005 2001*	
TPH 1005 Extraction	-	-	N/A	1	ENB0395	VAH	02/19/25 12:30	TNRCC 1005 2001	
Anions by EPA Method 300.0									
Chloride	<8.00	8.00	mg/Kg	5	ENB0423	JRH	02/19/25 22:10	EPA 300.0 1993	

Environmental Testing, Inc.

Keith Hopcus For Russell Britton, CEO

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Comm Engineering
1319 W. Pinhook Rd. Ste 401
Lafayette LA, 70503

Project: Tomcat 16 State #003
Project Number: 240646
Project Manager: Mr. Ryan Gleason

Reported:
02/21/25 15:26

F8 18''

E5B0230-08 (Solid) - Sampled: 02/13/25 09:40

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
Volatile Organic Compounds by EPA Method 8021									
Benzene	<0.024	0.024	mg/Kg	0.959	ENB0363	BLS	02/17/25 17:34	EPA 8021B 1996	
Toluene	<0.024	0.024	mg/Kg	0.959	ENB0363	BLS	02/17/25 17:34	EPA 8021B 1996	
Ethylbenzene	<0.024	0.024	mg/Kg	0.959	ENB0363	BLS	02/17/25 17:34	EPA 8021B 1996	
Xylenes (total)	<0.072	0.072	mg/Kg	0.959	ENB0363	BLS	02/17/25 17:34	EPA 8021B 1996	
Surrogate: a,a,a-Trifluorotoluene		*103 %*		*45.4-152*	*ENB0363*	BLS	*02/17/25 17:34*	*EPA 8021B 1996*	
Surrogate: 4-Bromofluorobenzene		*97 %*		*41.7-151*	*ENB0363*	BLS	*02/17/25 17:34*	*EPA 8021B 1996*	
Petroleum Hydrocarbons by TNRCC 1005									
TPH (C6 to C12)	<50.0	50.0	mg/Kg	1	ENB0395	BLS	02/20/25 10:18	TNRCC 1005 2001	
TPH (>C12 to C28)	**728**	50.0	mg/Kg	1	ENB0395	BLS	02/20/25 10:18	TNRCC 1005 2001	
TPH (>C28 to C35)	<50.0	50.0	mg/Kg	1	ENB0395	BLS	02/20/25 10:18	TNRCC 1005 2001	
TPH (C6 to C35)	**728**	150	mg/Kg	1	ENB0395	BLS	02/20/25 10:18	TNRCC 1005 2001	
Surrogate: Chlorooctane		*103 %*		*70-130*	*ENB0395*	BLS	*02/20/25 10:18*	*TNRCC 1005 2001*	
Surrogate: Chlorooctadecane		*105 %*		*70-130*	*ENB0395*	BLS	*02/20/25 10:18*	*TNRCC 1005 2001*	
TPH 1005 Extraction	-	-	N/A	1	ENB0395	VAH	02/19/25 12:30	TNRCC 1005 2001	
Anions by EPA Method 300.0									
Chloride	**41.2**	8.00	mg/Kg	5	ENB0423	JRH	02/19/25 22:29	EPA 300.0 1993	

Environmental Testing, Inc.

Keith Hopcus For Russell Britton, CEO

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ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe Ave
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
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Comm Engineering
1319 W. Pinhook Rd. Ste 401
Lafayette LA, 70503

Project: Tomcat 16 State #003
Project Number: 240646
Project Manager: Mr. Ryan Gleason

Reported:
02/21/25 15:26

F9 12''

E5B0230-09 (Solid) - Sampled: 02/13/25 09:50

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
Volatile Organic Compounds by EPA Method 8021									
Benzene	<0.024	0.024	mg/Kg	0.973	ENB0363	BLS	02/17/25 17:54	EPA 8021B 1996	
Toluene	<0.024	0.024	mg/Kg	0.973	ENB0363	BLS	02/17/25 17:54	EPA 8021B 1996	
Ethylbenzene	<0.024	0.024	mg/Kg	0.973	ENB0363	BLS	02/17/25 17:54	EPA 8021B 1996	
Xylenes (total)	<0.073	0.073	mg/Kg	0.973	ENB0363	BLS	02/17/25 17:54	EPA 8021B 1996	
Surrogate: a,a,a-Trifluorotoluene		*101 %*		*45.4-152*	*ENB0363*	BLS	*02/17/25 17:54*	*EPA 8021B 1996*	
Surrogate: 4-Bromofluorobenzene		*101 %*		*41.7-151*	*ENB0363*	BLS	*02/17/25 17:54*	*EPA 8021B 1996*	
Petroleum Hydrocarbons by TNRCC 1005									
TPH (C6 to C12)	<50.0	50.0	mg/Kg	1	ENB0395	BLS	02/20/25 10:44	TNRCC 1005 2001	
TPH (>C12 to C28)	**150**	50.0	mg/Kg	1	ENB0395	BLS	02/20/25 10:44	TNRCC 1005 2001	
TPH (>C28 to C35)	<50.0	50.0	mg/Kg	1	ENB0395	BLS	02/20/25 10:44	TNRCC 1005 2001	
TPH (C6 to C35)	<150	150	mg/Kg	1	ENB0395	BLS	02/20/25 10:44	TNRCC 1005 2001	
Surrogate: Chlorooctane		*104 %*		*70-130*	*ENB0395*	BLS	*02/20/25 10:44*	*TNRCC 1005 2001*	
Surrogate: Chlorooctadecane		*108 %*		*70-130*	*ENB0395*	BLS	*02/20/25 10:44*	*TNRCC 1005 2001*	
TPH 1005 Extraction	-	-	N/A	1	ENB0395	VAH	02/19/25 12:30	TNRCC 1005 2001	
Anions by EPA Method 300.0									
Chloride	<8.00	8.00	mg/Kg	5	ENB0423	JRH	02/19/25 22:48	EPA 300.0 1993	

Environmental Testing, Inc.

Keith Hopcus For Russell Britton, CEO

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ENVIRONMENTAL TESTING, INC.

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405.488.2404 Fax
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Comm Engineering
1319 W. Pinhook Rd. Ste 401
Lafayette LA, 70503

Project: Tomcat 16 State #003
Project Number: 240646
Project Manager: Mr. Ryan Gleason

Reported:
02/21/25 15:26

F10 12''

E5B0230-10 (Solid) - Sampled: 02/13/25 10:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
Volatile Organic Compounds by EPA Method 8021									
Benzene	<0.025	0.025	mg/Kg	0.981	ENB0363	BLS	02/17/25 18:34	EPA 8021B 1996	
Toluene	<0.025	0.025	mg/Kg	0.981	ENB0363	BLS	02/17/25 18:34	EPA 8021B 1996	
Ethylbenzene	<0.025	0.025	mg/Kg	0.981	ENB0363	BLS	02/17/25 18:34	EPA 8021B 1996	
Xylenes (total)	<0.074	0.074	mg/Kg	0.981	ENB0363	BLS	02/17/25 18:34	EPA 8021B 1996	
Surrogate: a,a,a-Trifluorotoluene		*98 %*		*45.4-152*	*ENB0363*	BLS	*02/17/25 18:34*	*EPA 8021B 1996*	
Surrogate: 4-Bromofluorobenzene		*99 %*		*41.7-151*	*ENB0363*	BLS	*02/17/25 18:34*	*EPA 8021B 1996*	
Petroleum Hydrocarbons by TNRCC 1005									
TPH (C6 to C12)	<50.0	50.0	mg/Kg	1	ENB0395	BLS	02/20/25 11:11	TNRCC 1005 2001	
TPH (>C12 to C28)	**114**	50.0	mg/Kg	1	ENB0395	BLS	02/20/25 11:11	TNRCC 1005 2001	
TPH (>C28 to C35)	<50.0	50.0	mg/Kg	1	ENB0395	BLS	02/20/25 11:11	TNRCC 1005 2001	
TPH (C6 to C35)	<150	150	mg/Kg	1	ENB0395	BLS	02/20/25 11:11	TNRCC 1005 2001	
Surrogate: Chlorooctane		*102 %*		*70-130*	*ENB0395*	BLS	*02/20/25 11:11*	*TNRCC 1005 2001*	
Surrogate: Chlorooctadecane		*106 %*		*70-130*	*ENB0395*	BLS	*02/20/25 11:11*	*TNRCC 1005 2001*	
TPH 1005 Extraction	-	-	N/A	1	ENB0395	VAH	02/19/25 12:30	TNRCC 1005 2001	
Anions by EPA Method 300.0									
Chloride	**14.7**	8.00	mg/Kg	5	ENB0423	JRH	02/19/25 23:06	EPA 300.0 1993	

Environmental Testing, Inc.

Keith Hopcus For Russell Britton, CEO

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ENVIRONMENTAL TESTING, INC.

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405.488.2404 Fax
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Comm Engineering
1319 W. Pinhook Rd. Ste 401
Lafayette LA, 70503

Project: Tomcat 16 State #003
Project Number: 240646
Project Manager: Mr. Ryan Gleason

Reported:
02/21/25 15:26

F11 18"

E5B0230-11 (Solid) - Sampled: 02/13/25 10:10

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
Volatile Organic Compounds by EPA Method 8021									
Benzene	<0.024	0.024	mg/Kg	0.972	ENB0363	BLS	02/17/25 18:54	EPA 8021B 1996	
Toluene	<0.024	0.024	mg/Kg	0.972	ENB0363	BLS	02/17/25 18:54	EPA 8021B 1996	
Ethylbenzene	<0.024	0.024	mg/Kg	0.972	ENB0363	BLS	02/17/25 18:54	EPA 8021B 1996	
Xylenes (total)	<0.073	0.073	mg/Kg	0.972	ENB0363	BLS	02/17/25 18:54	EPA 8021B 1996	
Surrogate: a,a,a-Trifluorotoluene		*96 %*		*45.4-152*	*ENB0363*	BLS	*02/17/25 18:54*	*EPA 8021B 1996*	
Surrogate: 4-Bromofluorobenzene		*98 %*		*41.7-151*	*ENB0363*	BLS	*02/17/25 18:54*	*EPA 8021B 1996*	
Petroleum Hydrocarbons by TNRCC 1005									
TPH (C6 to C12)	<50.0	50.0	mg/Kg	1	ENB0395	BLS	02/20/25 14:17	TNRCC 1005 2001	
TPH (>C12 to C28)	**227**	50.0	mg/Kg	1	ENB0395	BLS	02/20/25 14:17	TNRCC 1005 2001	
TPH (>C28 to C35)	<50.0	50.0	mg/Kg	1	ENB0395	BLS	02/20/25 14:17	TNRCC 1005 2001	
TPH (C6 to C35)	**227**	150	mg/Kg	1	ENB0395	BLS	02/20/25 14:17	TNRCC 1005 2001	
Surrogate: Chlorooctane		*102 %*		*70-130*	*ENB0395*	BLS	*02/20/25 14:17*	*TNRCC 1005 2001*	
Surrogate: Chlorooctadecane		*106 %*		*70-130*	*ENB0395*	BLS	*02/20/25 14:17*	*TNRCC 1005 2001*	
TPH 1005 Extraction	-	-	N/A	1	ENB0395	VAH	02/19/25 12:30	TNRCC 1005 2001	
Anions by EPA Method 300.0									
Chloride	**12.2**	8.00	mg/Kg	5	ENB0423	JRH	02/20/25 00:03	EPA 300.0 1993	

Environmental Testing, Inc.

Keith Hopcus For Russell Britton, CEO

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405.488.2404 Fax
www.etilab.com

Comm Engineering
1319 W. Pinhook Rd. Ste 401
Lafayette LA, 70503

Project: Tomcat 16 State #003
Project Number: 240646
Project Manager: Mr. Ryan Gleason

Reported:
02/21/25 15:26

F12 18''

E5B0230-12 (Solid) - Sampled: 02/13/25 10:20

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
Volatile Organic Compounds by EPA Method 8021									
Benzene	<0.024	0.024	mg/Kg	0.97	ENB0363	BLS	02/17/25 19:14	EPA 8021B 1996	
Toluene	<0.024	0.024	mg/Kg	0.97	ENB0363	BLS	02/17/25 19:14	EPA 8021B 1996	
Ethylbenzene	<0.024	0.024	mg/Kg	0.97	ENB0363	BLS	02/17/25 19:14	EPA 8021B 1996	
Xylenes (total)	<0.073	0.073	mg/Kg	0.97	ENB0363	BLS	02/17/25 19:14	EPA 8021B 1996	
Surrogate: a,a,a-Trifluorotoluene		*100 %*		*45.4-152*	*ENB0363*	BLS	*02/17/25 19:14*	*EPA 8021B 1996*	
Surrogate: 4-Bromofluorobenzene		*98 %*		*41.7-151*	*ENB0363*	BLS	*02/17/25 19:14*	*EPA 8021B 1996*	
Petroleum Hydrocarbons by TNRCC 1005									
TPH (C6 to C12)	<50.0	50.0	mg/Kg	1	ENB0395	BLS	02/20/25 14:44	TNRCC 1005 2001	
TPH (>C12 to C28)	**569**	50.0	mg/Kg	1	ENB0395	BLS	02/20/25 14:44	TNRCC 1005 2001	
TPH (>C28 to C35)	<50.0	50.0	mg/Kg	1	ENB0395	BLS	02/20/25 14:44	TNRCC 1005 2001	
TPH (C6 to C35)	**569**	150	mg/Kg	1	ENB0395	BLS	02/20/25 14:44	TNRCC 1005 2001	
Surrogate: Chlorooctane		*104 %*		*70-130*	*ENB0395*	BLS	*02/20/25 14:44*	*TNRCC 1005 2001*	
Surrogate: Chlorooctadecane		*107 %*		*70-130*	*ENB0395*	BLS	*02/20/25 14:44*	*TNRCC 1005 2001*	
TPH 1005 Extraction	-	-	N/A	1	ENB0395	VAH	02/19/25 12:30	TNRCC 1005 2001	
Anions by EPA Method 300.0									
Chloride	**16.8**	8.00	mg/Kg	5	ENB0423	JRH	02/20/25 00:22	EPA 300.0 1993	

Environmental Testing, Inc.

Keith Hopcus For Russell Britton, CEO

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405.488.2404 Fax
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Comm Engineering
1319 W. Pinhook Rd. Ste 401
Lafayette LA, 70503

Project: Tomcat 16 State #003
Project Number: 240646
Project Manager: Mr. Ryan Gleason

Reported:
02/21/25 15:26

F13 12''

E5B0230-13 (Solid) - Sampled: 02/13/25 10:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
Volatile Organic Compounds by EPA Method 8021									
Benzene	<0.024	0.024	mg/Kg	0.964	ENB0363	BLS	02/17/25 19:35	EPA 8021B 1996	
Toluene	<0.024	0.024	mg/Kg	0.964	ENB0363	BLS	02/17/25 19:35	EPA 8021B 1996	
Ethylbenzene	<0.024	0.024	mg/Kg	0.964	ENB0363	BLS	02/17/25 19:35	EPA 8021B 1996	
Xylenes (total)	<0.072	0.072	mg/Kg	0.964	ENB0363	BLS	02/17/25 19:35	EPA 8021B 1996	
Surrogate: a,a,a-Trifluorotoluene		*102 %*		*45.4-152*	*ENB0363*	BLS	*02/17/25 19:35*	*EPA 8021B 1996*	
Surrogate: 4-Bromofluorobenzene		*104 %*		*41.7-151*	*ENB0363*	BLS	*02/17/25 19:35*	*EPA 8021B 1996*	
Petroleum Hydrocarbons by TNRCC 1005									
TPH (C6 to C12)	<50.0	50.0	mg/Kg	1	ENB0395	BLS	02/20/25 15:12	TNRCC 1005 2001	
TPH (>C12 to C28)	**531**	50.0	mg/Kg	1	ENB0395	BLS	02/20/25 15:12	TNRCC 1005 2001	
TPH (>C28 to C35)	<50.0	50.0	mg/Kg	1	ENB0395	BLS	02/20/25 15:12	TNRCC 1005 2001	
TPH (C6 to C35)	**531**	150	mg/Kg	1	ENB0395	BLS	02/20/25 15:12	TNRCC 1005 2001	
Surrogate: Chlorooctane		*103 %*		*70-130*	*ENB0395*	BLS	*02/20/25 15:12*	*TNRCC 1005 2001*	
Surrogate: Chlorooctadecane		*106 %*		*70-130*	*ENB0395*	BLS	*02/20/25 15:12*	*TNRCC 1005 2001*	
TPH 1005 Extraction	-	-	N/A	1	ENB0395	VAH	02/19/25 12:30	TNRCC 1005 2001	
Anions by EPA Method 300.0									
Chloride	**28.7**	8.00	mg/Kg	5	ENB0423	JRH	02/20/25 00:40	EPA 300.0 1993	

Environmental Testing, Inc.

Keith Hopcus For Russell Britton, CEO

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Comm Engineering
1319 W. Pinhook Rd. Ste 401
Lafayette LA, 70503

Project: Tomcat 16 State #003
Project Number: 240646
Project Manager: Mr. Ryan Gleason

Reported:
02/21/25 15:26

F14 18''

E5B0230-14 (Solid) - Sampled: 02/13/25 10:40

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
Volatile Organic Compounds by EPA Method 8021									
Benzene	<0.025	0.025	mg/Kg	0.981	ENB0363	BLS	02/17/25 19:55	EPA 8021B 1996	
Toluene	<0.025	0.025	mg/Kg	0.981	ENB0363	BLS	02/17/25 19:55	EPA 8021B 1996	
Ethylbenzene	<0.025	0.025	mg/Kg	0.981	ENB0363	BLS	02/17/25 19:55	EPA 8021B 1996	
Xylenes (total)	<0.074	0.074	mg/Kg	0.981	ENB0363	BLS	02/17/25 19:55	EPA 8021B 1996	
Surrogate: a,a,a-Trifluorotoluene		*101 %*		*45.4-152*	*ENB0363*	BLS	*02/17/25 19:55*	*EPA 8021B 1996*	
Surrogate: 4-Bromofluorobenzene		*100 %*		*41.7-151*	*ENB0363*	BLS	*02/17/25 19:55*	*EPA 8021B 1996*	
Petroleum Hydrocarbons by TNRCC 1005									
TPH (C6 to C12)	<50.0	50.0	mg/Kg	1	ENB0395	BLS	02/20/25 15:39	TNRCC 1005 2001	
TPH (>C12 to C28)	**252**	50.0	mg/Kg	1	ENB0395	BLS	02/20/25 15:39	TNRCC 1005 2001	
TPH (>C28 to C35)	<50.0	50.0	mg/Kg	1	ENB0395	BLS	02/20/25 15:39	TNRCC 1005 2001	
TPH (C6 to C35)	**252**	150	mg/Kg	1	ENB0395	BLS	02/20/25 15:39	TNRCC 1005 2001	
Surrogate: Chlorooctane		*105 %*		*70-130*	*ENB0395*	BLS	*02/20/25 15:39*	*TNRCC 1005 2001*	
Surrogate: Chlorooctadecane		*108 %*		*70-130*	*ENB0395*	BLS	*02/20/25 15:39*	*TNRCC 1005 2001*	
TPH 1005 Extraction	-	-	N/A	1	ENB0395	VAH	02/19/25 12:30	TNRCC 1005 2001	
Anions by EPA Method 300.0									
Chloride	**46.5**	8.00	mg/Kg	5	ENB0423	JRH	02/20/25 00:59	EPA 300.0 1993	

Environmental Testing, Inc.

Keith Hopcus For Russell Britton, CEO

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Comm Engineering
1319 W. Pinhook Rd. Ste 401
Lafayette LA, 70503

Project: Tomcat 16 State #003
Project Number: 240646
Project Manager: Mr. Ryan Gleason

Reported:
02/21/25 15:26

F15 18''

E5B0230-15 (Solid) - Sampled: 02/13/25 10:50

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
Volatile Organic Compounds by EPA Method 8021									
Benzene	<0.024	0.024	mg/Kg	0.955	ENB0363	BLS	02/17/25 20:15	EPA 8021B 1996	
Toluene	<0.024	0.024	mg/Kg	0.955	ENB0363	BLS	02/17/25 20:15	EPA 8021B 1996	
Ethylbenzene	<0.024	0.024	mg/Kg	0.955	ENB0363	BLS	02/17/25 20:15	EPA 8021B 1996	
Xylenes (total)	<0.072	0.072	mg/Kg	0.955	ENB0363	BLS	02/17/25 20:15	EPA 8021B 1996	
Surrogate: a,a,a-Trifluorotoluene		*101 %*		*45.4-152*	*ENB0363*	BLS	*02/17/25 20:15*	*EPA 8021B 1996*	
Surrogate: 4-Bromofluorobenzene		*99 %*		*41.7-151*	*ENB0363*	BLS	*02/17/25 20:15*	*EPA 8021B 1996*	
Petroleum Hydrocarbons by TNRCC 1005									
TPH (C6 to C12)	<50.0	50.0	mg/Kg	1	ENB0395	BLS	02/20/25 16:06	TNRCC 1005 2001	
TPH (>C12 to C28)	<50.0	50.0	mg/Kg	1	ENB0395	BLS	02/20/25 16:06	TNRCC 1005 2001	
TPH (>C28 to C35)	<50.0	50.0	mg/Kg	1	ENB0395	BLS	02/20/25 16:06	TNRCC 1005 2001	
TPH (C6 to C35)	<150	150	mg/Kg	1	ENB0395	BLS	02/20/25 16:06	TNRCC 1005 2001	
Surrogate: Chlorooctane		*105 %*		*70-130*	*ENB0395*	BLS	*02/20/25 16:06*	*TNRCC 1005 2001*	
Surrogate: Chlorooctadecane		*108 %*		*70-130*	*ENB0395*	BLS	*02/20/25 16:06*	*TNRCC 1005 2001*	
TPH 1005 Extraction	-	-	N/A	1	ENB0395	VAH	02/19/25 12:30	TNRCC 1005 2001	
Anions by EPA Method 300.0									
Chloride	**12.7**	8.00	mg/Kg	5	ENB0423	JRH	02/20/25 01:18	EPA 300.0 1993	

Environmental Testing, Inc.

Keith Hopcus For Russell Britton, CEO

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Comm Engineering
1319 W. Pinhook Rd. Ste 401
Lafayette LA, 70503

Project: Tomcat 16 State #003
Project Number: 240646
Project Manager: Mr. Ryan Gleason

Reported:
02/21/25 15:26

SW1

E5B0230-16 (Solid) - Sampled: 02/13/25 11:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
Volatile Organic Compounds by EPA Method 8021									
Benzene	<0.024	0.024	mg/Kg	0.972	ENB0363	BLS	02/17/25 20:35	EPA 8021B 1996	
Toluene	<0.024	0.024	mg/Kg	0.972	ENB0363	BLS	02/17/25 20:35	EPA 8021B 1996	
Ethylbenzene	<0.024	0.024	mg/Kg	0.972	ENB0363	BLS	02/17/25 20:35	EPA 8021B 1996	
Xylenes (total)	<0.073	0.073	mg/Kg	0.972	ENB0363	BLS	02/17/25 20:35	EPA 8021B 1996	
Surrogate: a,a,a-Trifluorotoluene		*103 %*		*45.4-152*	*ENB0363*	BLS	*02/17/25 20:35*	*EPA 8021B 1996*	
Surrogate: 4-Bromofluorobenzene		*102 %*		*41.7-151*	*ENB0363*	BLS	*02/17/25 20:35*	*EPA 8021B 1996*	
Petroleum Hydrocarbons by TNRCC 1005									
TPH (C6 to C12)	<50.0	50.0	mg/Kg	1	ENB0395	BLS	02/20/25 16:34	TNRCC 1005 2001	
TPH (>C12 to C28)	**53.8**	50.0	mg/Kg	1	ENB0395	BLS	02/20/25 16:34	TNRCC 1005 2001	
TPH (>C28 to C35)	<50.0	50.0	mg/Kg	1	ENB0395	BLS	02/20/25 16:34	TNRCC 1005 2001	
TPH (C6 to C35)	<150	150	mg/Kg	1	ENB0395	BLS	02/20/25 16:34	TNRCC 1005 2001	
Surrogate: Chlorooctane		*103 %*		*70-130*	*ENB0395*	BLS	*02/20/25 16:34*	*TNRCC 1005 2001*	
Surrogate: Chlorooctadecane		*106 %*		*70-130*	*ENB0395*	BLS	*02/20/25 16:34*	*TNRCC 1005 2001*	
TPH 1005 Extraction	-	-	N/A	1	ENB0395	VAH	02/19/25 12:30	TNRCC 1005 2001	
Anions by EPA Method 300.0									
Chloride	**10.7**	8.00	mg/Kg	5	ENB0423	JRH	02/20/25 01:37	EPA 300.0 1993	

Environmental Testing, Inc.

Keith Hopcus For Russell Britton, CEO

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ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe Ave
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Comm Engineering
1319 W. Pinhook Rd. Ste 401
Lafayette LA, 70503

Project: Tomcat 16 State #003
Project Number: 240646
Project Manager: Mr. Ryan Gleason

Reported:
02/21/25 15:26

SW2

E5B0230-17 (Solid) - Sampled: 02/13/25 11:10

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
Volatile Organic Compounds by EPA Method 8021									
Benzene	<0.024	0.024	mg/Kg	0.962	ENB0363	BLS	02/17/25 20:55	EPA 8021B 1996	
Toluene	<0.024	0.024	mg/Kg	0.962	ENB0363	BLS	02/17/25 20:55	EPA 8021B 1996	
Ethylbenzene	<0.024	0.024	mg/Kg	0.962	ENB0363	BLS	02/17/25 20:55	EPA 8021B 1996	
Xylenes (total)	<0.072	0.072	mg/Kg	0.962	ENB0363	BLS	02/17/25 20:55	EPA 8021B 1996	
Surrogate: a,a,a-Trifluorotoluene		*101 %*		*45.4-152*	*ENB0363*	BLS	*02/17/25 20:55*	*EPA 8021B 1996*	
Surrogate: 4-Bromofluorobenzene		*98 %*		*41.7-151*	*ENB0363*	BLS	*02/17/25 20:55*	*EPA 8021B 1996*	
Petroleum Hydrocarbons by TNRCC 1005									
TPH (C6 to C12)	<50.0	50.0	mg/Kg	1	ENB0395	BLS	02/20/25 17:02	TNRCC 1005 2001	
TPH (>C12 to C28)	<50.0	50.0	mg/Kg	1	ENB0395	BLS	02/20/25 17:02	TNRCC 1005 2001	
TPH (>C28 to C35)	<50.0	50.0	mg/Kg	1	ENB0395	BLS	02/20/25 17:02	TNRCC 1005 2001	
TPH (C6 to C35)	<150	150	mg/Kg	1	ENB0395	BLS	02/20/25 17:02	TNRCC 1005 2001	
Surrogate: Chlorooctane		*105 %*		*70-130*	*ENB0395*	BLS	*02/20/25 17:02*	*TNRCC 1005 2001*	
Surrogate: Chlorooctadecane		*108 %*		*70-130*	*ENB0395*	BLS	*02/20/25 17:02*	*TNRCC 1005 2001*	
TPH 1005 Extraction	-	-	N/A	1	ENB0395	VAH	02/19/25 12:30	TNRCC 1005 2001	
Anions by EPA Method 300.0									
Chloride	**14.0**	8.00	mg/Kg	5	ENB0423	JRH	02/20/25 01:56	EPA 300.0 1993	

Environmental Testing, Inc.

Keith Hopcus For Russell Britton, CEO

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Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Comm Engineering
1319 W. Pinhook Rd. Ste 401
Lafayette LA, 70503

Project: Tomcat 16 State #003
Project Number: 240646
Project Manager: Mr. Ryan Gleason

Reported:
02/21/25 15:26

SW3

E5B0230-18 (Solid) - Sampled: 02/13/25 11:20

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
Volatile Organic Compounds by EPA Method 8021									
Benzene	<0.025	0.025	mg/Kg	0.987	ENB0363	BLS	02/17/25 21:15	EPA 8021B 1996	
Toluene	<0.025	0.025	mg/Kg	0.987	ENB0363	BLS	02/17/25 21:15	EPA 8021B 1996	
Ethylbenzene	<0.025	0.025	mg/Kg	0.987	ENB0363	BLS	02/17/25 21:15	EPA 8021B 1996	
Xylenes (total)	<0.074	0.074	mg/Kg	0.987	ENB0363	BLS	02/17/25 21:15	EPA 8021B 1996	
Surrogate: a,a,a-Trifluorotoluene		*97 %*		*45.4-152*	*ENB0363*	BLS	*02/17/25 21:15*	*EPA 8021B 1996*	
Surrogate: 4-Bromofluorobenzene		*92 %*		*41.7-151*	*ENB0363*	BLS	*02/17/25 21:15*	*EPA 8021B 1996*	
Petroleum Hydrocarbons by TNRCC 1005									
TPH (C6 to C12)	<50.0	50.0	mg/Kg	1	ENB0395	BLS	02/20/25 17:30	TNRCC 1005 2001	
TPH (>C12 to C28)	<50.0	50.0	mg/Kg	1	ENB0395	BLS	02/20/25 17:30	TNRCC 1005 2001	
TPH (>C28 to C35)	<50.0	50.0	mg/Kg	1	ENB0395	BLS	02/20/25 17:30	TNRCC 1005 2001	
TPH (C6 to C35)	<150	150	mg/Kg	1	ENB0395	BLS	02/20/25 17:30	TNRCC 1005 2001	
Surrogate: Chlorooctane		*100 %*		*70-130*	*ENB0395*	BLS	*02/20/25 17:30*	*TNRCC 1005 2001*	
Surrogate: Chlorooctadecane		*107 %*		*70-130*	*ENB0395*	BLS	*02/20/25 17:30*	*TNRCC 1005 2001*	
TPH 1005 Extraction	-	-	N/A	1	ENB0395	VAH	02/19/25 12:30	TNRCC 1005 2001	
Anions by EPA Method 300.0									
Chloride	**31.8**	8.00	mg/Kg	5	ENB0423	JRH	02/20/25 02:14	EPA 300.0 1993	

Environmental Testing, Inc.

Keith Hopcus For Russell Britton, CEO

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Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Comm Engineering
1319 W. Pinhook Rd. Ste 401
Lafayette LA, 70503

Project: Tomcat 16 State #003
Project Number: 240646
Project Manager: Mr. Ryan Gleason

Reported:
02/21/25 15:26

SW4

E5B0230-19 (Solid) - Sampled: 02/13/25 11:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
Volatile Organic Compounds by EPA Method 8021									
Benzene	<0.024	0.024	mg/Kg	0.979	ENB0363	BLS	02/17/25 21:35	EPA 8021B 1996	
Toluene	<0.024	0.024	mg/Kg	0.979	ENB0363	BLS	02/17/25 21:35	EPA 8021B 1996	
Ethylbenzene	<0.024	0.024	mg/Kg	0.979	ENB0363	BLS	02/17/25 21:35	EPA 8021B 1996	
Xylenes (total)	<0.073	0.073	mg/Kg	0.979	ENB0363	BLS	02/17/25 21:35	EPA 8021B 1996	
Surrogate: a,a,a-Trifluorotoluene		*92 %*		*45.4-152*	*ENB0363*	BLS	*02/17/25 21:35*	*EPA 8021B 1996*	
Surrogate: 4-Bromofluorobenzene		*98 %*		*41.7-151*	*ENB0363*	BLS	*02/17/25 21:35*	*EPA 8021B 1996*	
Petroleum Hydrocarbons by TNRCC 1005									
TPH (C6 to C12)	<50.0	50.0	mg/Kg	1	ENB0395	BLS	02/20/25 17:58	TNRCC 1005 2001	
TPH (>C12 to C28)	**186**	50.0	mg/Kg	1	ENB0395	BLS	02/20/25 17:58	TNRCC 1005 2001	
TPH (>C28 to C35)	<50.0	50.0	mg/Kg	1	ENB0395	BLS	02/20/25 17:58	TNRCC 1005 2001	
TPH (C6 to C35)	**186**	150	mg/Kg	1	ENB0395	BLS	02/20/25 17:58	TNRCC 1005 2001	
Surrogate: Chlorooctane		*102 %*		*70-130*	*ENB0395*	BLS	*02/20/25 17:58*	*TNRCC 1005 2001*	
Surrogate: Chlorooctadecane		*107 %*		*70-130*	*ENB0395*	BLS	*02/20/25 17:58*	*TNRCC 1005 2001*	
TPH 1005 Extraction	-	-	N/A	1	ENB0395	VAH	02/19/25 12:30	TNRCC 1005 2001	
Anions by EPA Method 300.0									
Chloride	**15.5**	8.00	mg/Kg	5	ENB0423	JRH	02/20/25 02:33	EPA 300.0 1993	

Environmental Testing, Inc.

Keith Hopcus For Russell Britton, CEO

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Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Comm Engineering
1319 W. Pinhook Rd. Ste 401
Lafayette LA, 70503

Project: Tomcat 16 State #003
Project Number: 240646
Project Manager: Mr. Ryan Gleason

Reported:
02/21/25 15:26

SW5

E5B0230-20 (Solid) - Sampled: 02/13/25 11:40

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
Volatile Organic Compounds by EPA Method 8021									
Benzene	<0.024	0.024	mg/Kg	0.977	ENB0416	BLS	02/19/25 23:12	EPA 8021B 1996	
Toluene	<0.024	0.024	mg/Kg	0.977	ENB0416	BLS	02/19/25 23:12	EPA 8021B 1996	
Ethylbenzene	<0.024	0.024	mg/Kg	0.977	ENB0416	BLS	02/19/25 23:12	EPA 8021B 1996	
Xylenes (total)	<0.073	0.073	mg/Kg	0.977	ENB0416	BLS	02/19/25 23:12	EPA 8021B 1996	
Surrogate: a,a,a-Trifluorotoluene		*115 %*		*45.4-152*	*ENB0416*	BLS	*02/19/25 23:12*	*EPA 8021B 1996*	
Surrogate: 4-Bromofluorobenzene		*102 %*		*41.7-151*	*ENB0416*	BLS	*02/19/25 23:12*	*EPA 8021B 1996*	
Petroleum Hydrocarbons by TNRCC 1005									
TPH (C6 to C12)	<50.0	50.0	mg/Kg	1	ENB0395	BLS	02/20/25 18:26	TNRCC 1005 2001	
TPH (>C12 to C28)	**83.1**	50.0	mg/Kg	1	ENB0395	BLS	02/20/25 18:26	TNRCC 1005 2001	
TPH (>C28 to C35)	<50.0	50.0	mg/Kg	1	ENB0395	BLS	02/20/25 18:26	TNRCC 1005 2001	
TPH (C6 to C35)	<150	150	mg/Kg	1	ENB0395	BLS	02/20/25 18:26	TNRCC 1005 2001	
Surrogate: Chlorooctane		*106 %*		*70-130*	*ENB0395*	BLS	*02/20/25 18:26*	*TNRCC 1005 2001*	
Surrogate: Chlorooctadecane		*108 %*		*70-130*	*ENB0395*	BLS	*02/20/25 18:26*	*TNRCC 1005 2001*	
TPH 1005 Extraction	-	-	N/A	1	ENB0395	VAH	02/19/25 14:00	TNRCC 1005 2001	
Anions by EPA Method 300.0									
Chloride	**9.72**	8.00	mg/Kg	5	ENB0423	JRH	02/20/25 02:52	EPA 300.0 1993	

Environmental Testing, Inc.

Keith Hopcus For Russell Britton, CEO

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405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Comm Engineering
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Lafayette LA, 70503

Project: Tomcat 16 State #003
Project Number: 240646
Project Manager: Mr. Ryan Gleason

Reported:
02/21/25 15:26

BG1

E5B0230-21 (Solid) - Sampled: 02/13/25 11:50

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
Anions by EPA Method 300.0									
Chloride	**3.57**	1.60	mg/Kg	1	ENB0381	LDH	02/17/25 23:52	EPA 300.0 1993	

Environmental Testing, Inc.

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Lafayette LA, 70503

Project: Tomcat 16 State #003
Project Number: 240646
Project Manager: Mr. Ryan Gleason

Reported:
02/21/25 15:26

QUALITY CONTROL

Volatile Organic Compounds by EPA Method 8021
Environmental Testing, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch ENB0363 - EPA 5035 Soil GC										
Blank (ENB0363-BLK1)				**Prepared & Analyzed: 02/17/25**						
Benzene	<0.025	0.025	mg/Kg							
Toluene	<0.025	0.025	mg/Kg							
Ethylbenzene	<0.025	0.025	mg/Kg							
Xylenes (total)	<0.075	0.075	mg/Kg							
Surrogate: a,a,a-Trifluorotoluene	*0.163*		mg/Kg	*0.1500*		*109*	*45.4-152*			
Surrogate: 4-Bromofluorobenzene	*0.144*		mg/Kg	*0.1500*		*96*	*41.7-151*			
LCS (ENB0363-BS1)				**Prepared & Analyzed: 02/17/25**						
Benzene	0.457	0.025	mg/Kg	0.4990		92	63.8-138			
Toluene	0.524	0.025	mg/Kg	0.4990		105	80.9-135			
Ethylbenzene	0.541	0.025	mg/Kg	0.4990		108	75.1-130			
Xylenes (total)	1.74	0.075	mg/Kg	1.497		116	81-125			
Surrogate: a,a,a-Trifluorotoluene	*0.174*		mg/Kg	*0.1497*		*116*	*45.4-152*			
Surrogate: 4-Bromofluorobenzene	*0.177*		mg/Kg	*0.1497*		*118*	*41.7-151*			
Matrix Spike (ENB0363-MS1)		**Source: E5B0230-01**		**Prepared & Analyzed: 02/17/25**						
Benzene	0.428	0.024	mg/Kg	0.4864	0.004	87	52.3-133			
Toluene	0.488	0.024	mg/Kg	0.4864	0.006	99	61.1-130			
Ethylbenzene	0.509	0.024	mg/Kg	0.4864	0.008	103	54.2-129			
Xylenes (total)	1.61	0.073	mg/Kg	1.459	0.020	109	56.8-128			
Surrogate: a,a,a-Trifluorotoluene	*0.156*		mg/Kg	*0.1459*		*107*	*45.4-152*			
Surrogate: 4-Bromofluorobenzene	*0.163*		mg/Kg	*0.1459*		*112*	*41.7-151*			
Matrix Spike Dup (ENB0363-MSD1)		**Source: E5B0230-01**		**Prepared & Analyzed: 02/17/25**						
Benzene	0.449	0.024	mg/Kg	0.4878	0.004	91	52.3-133	5	20	
Toluene	0.502	0.024	mg/Kg	0.4878	0.006	102	61.1-130	3	20	
Ethylbenzene	0.514	0.024	mg/Kg	0.4878	0.008	104	54.2-129	1	20	
Xylenes (total)	1.65	0.073	mg/Kg	1.463	0.020	112	56.8-128	3	20	
Surrogate: a,a,a-Trifluorotoluene	*0.156*		mg/Kg	*0.1463*		*107*	*45.4-152*			
Surrogate: 4-Bromofluorobenzene	*0.161*		mg/Kg	*0.1463*		*110*	*41.7-151*			

Environmental Testing, Inc.

Keith Hopcus For Russell Britton, CEO

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Lafayette LA, 70503

Project: Tomcat 16 State #003
Project Number: 240646
Project Manager: Mr. Ryan Gleason

Reported:
02/21/25 15:26

QUALITY CONTROL

Volatile Organic Compounds by EPA Method 8021
Environmental Testing, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch ENB0416 - EPA 5035 Soil GC										
Blank (ENB0416-BLK1)				**Prepared & Analyzed: 02/19/25**						
Benzene	<0.025	0.025	mg/Kg							
Toluene	<0.025	0.025	mg/Kg							
Ethylbenzene	<0.025	0.025	mg/Kg							
Xylenes (total)	<0.075	0.075	mg/Kg							
Surrogate: a,a,a-Trifluorotoluene	*0.164*		mg/Kg	*0.1500*		*109*	*45.4-152*			
Surrogate: 4-Bromofluorobenzene	*0.143*		mg/Kg	*0.1500*		*95*	*41.7-151*			
LCS (ENB0416-BS1)				**Prepared & Analyzed: 02/19/25**						
Benzene	0.472	0.025	mg/Kg	0.4926		96	63.8-138			
Toluene	0.567	0.025	mg/Kg	0.4926		115	80.9-135			
Ethylbenzene	0.577	0.025	mg/Kg	0.4926		117	75.1-130			
Xylenes (total)	1.83	0.074	mg/Kg	1.478		124	81-125			
Surrogate: a,a,a-Trifluorotoluene	*0.179*		mg/Kg	*0.1478*		*121*	*45.4-152*			
Surrogate: 4-Bromofluorobenzene	*0.179*		mg/Kg	*0.1478*		*121*	*41.7-151*			
Matrix Spike (ENB0416-MS1)		**Source: E5B0230-20**		**Prepared & Analyzed: 02/19/25**						
Benzene	0.499	0.024	mg/Kg	0.4869	0.003	102	52.3-133			
Toluene	0.519	0.024	mg/Kg	0.4869	0.005	106	61.1-130			
Ethylbenzene	0.574	0.024	mg/Kg	0.4869	0.007	117	54.2-129			
Xylenes (total)	1.77	0.073	mg/Kg	1.461	0.015	120	56.8-128			
Surrogate: a,a,a-Trifluorotoluene	*0.175*		mg/Kg	*0.1461*		*120*	*45.4-152*			
Surrogate: 4-Bromofluorobenzene	*0.167*		mg/Kg	*0.1461*		*114*	*41.7-151*			
Matrix Spike Dup (ENB0416-MSD1)		**Source: E5B0230-20**		**Prepared & Analyzed: 02/19/25**						
Benzene	0.317	0.024	mg/Kg	0.4845	0.003	65	52.3-133	45	20	M-01
Toluene	0.344	0.024	mg/Kg	0.4845	0.005	70	61.1-130	40	20	M-01
Ethylbenzene	0.356	0.024	mg/Kg	0.4845	0.007	72	54.2-129	47	20	M-01
Xylenes (total)	1.10	0.073	mg/Kg	1.453	0.015	75	56.8-128	47	20	M-01
Surrogate: a,a,a-Trifluorotoluene	*0.108*		mg/Kg	*0.1453*		*74*	*45.4-152*			
Surrogate: 4-Bromofluorobenzene	*0.106*		mg/Kg	*0.1453*		*73*	*41.7-151*			

Environmental Testing, Inc.

Keith Hopcus For Russell Britton, CEO

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Lafayette LA, 70503

Project: Tomcat 16 State #003
Project Number: 240646
Project Manager: Mr. Ryan Gleason

Reported:
02/21/25 15:26

QUALITY CONTROL

Petroleum Hydrocarbons by TNRCC 1005
Environmental Testing, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch ENB0395 - TPH 1005										
Blank (ENB0395-BLK1)				**Prepared: 02/19/25 Analyzed: 02/20/25**						
TPH (C6 to C12)	<50.0	50.0	mg/Kg							
TPH (>C12 to C28)	<50.0	50.0	mg/Kg							
TPH (>C28 to C35)	<50.0	50.0	mg/Kg							
TPH (C6 to C35)	<150	150	mg/Kg							
TPH 1005 Extraction	Completed		N/A							
Surrogate: Chlorooctane	*60.5*		mg/Kg	*50.00*		*121*	*70-130*			
Surrogate: Chlorooctadecane	*62.5*		mg/Kg	*50.00*		*125*	*70-130*			
LCS (ENB0395-BS1)				**Prepared: 02/19/25 Analyzed: 02/20/25**						
TPH (C6 to C12)	508	50.0	mg/Kg	500.0		102	75-125			
TPH (>C12 to C28)	597	50.0	mg/Kg	500.0		119	75-125			
TPH 1005 Extraction	Completed		N/A							
Surrogate: Chlorooctane	*61.9*		mg/Kg	*50.00*		*124*	*70-130*			
Surrogate: Chlorooctadecane	*62.8*		mg/Kg	*50.00*		*126*	*70-130*			
LCS Dup (ENB0395-BSD1)				**Prepared: 02/19/25 Analyzed: 02/20/25**						
TPH (C6 to C12)	529	50.0	mg/Kg	500.0		106	75-125	4	20	
TPH (>C12 to C28)	611	50.0	mg/Kg	500.0		122	75-125	2	20	
TPH 1005 Extraction	Completed		N/A							
Surrogate: Chlorooctane	*61.6*		mg/Kg	*50.00*		*123*	*70-130*			
Surrogate: Chlorooctadecane	*62.5*		mg/Kg	*50.00*		*125*	*70-130*			
Matrix Spike (ENB0395-MS1)		**Source: E5B0230-01**		**Prepared: 02/19/25 Analyzed: 02/20/25**						
TPH (C6 to C12)	519	50.0	mg/Kg	500.0	ND	104	75-125			
TPH (>C12 to C28)	628	50.0	mg/Kg	500.0	ND	126	75-125			M-05
TPH 1005 Extraction	Completed		N/A		Completed					
Surrogate: Chlorooctane	*62.2*		mg/Kg	*50.00*		*124*	*70-130*			
Surrogate: Chlorooctadecane	*64.0*		mg/Kg	*50.00*		*128*	*70-130*			

Environmental Testing, Inc.

Keith Hopcus For Russell Britton, CEO

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.

E5B0230
Original
ETI_OKC_RPT MRL_rev49.0.rpt

E 5 B 0 2 3 0

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe Ave
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Comm Engineering
1319 W. Pinhook Rd. Ste 401
Lafayette LA, 70503

Project: Tomcat 16 State #003
Project Number: 240646
Project Manager: Mr. Ryan Gleason

Reported:
02/21/25 15:26

QUALITY CONTROL

Petroleum Hydrocarbons by TNRCC 1005
Environmental Testing, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch ENB0395 - TPH 1005										
Matrix Spike Dup (ENB0395-MSD1)		**Source: E5B0230-01**		**Prepared: 02/19/25**	**Analyzed: 02/20/25**					
TPH (C6 to C12)	489	50.0	mg/Kg	500.0	ND	98	75-125	6	20	
TPH (>C12 to C28)	589	50.0	mg/Kg	500.0	ND	118	75-125	6	20	
TPH 1005 Extraction	Completed		N/A		Completed					
Surrogate: Chlorooctane	*57.7*		mg/Kg	*50.00*		*115*	*70-130*			
Surrogate: Chlorooctadecane	*59.6*		mg/Kg	*50.00*		*119*	*70-130*			

Environmental Testing, Inc.

Keith Hopcus For Russell Britton, CEO

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe Ave
Oklahoma City, OK 73118
405.488.2400 Phone
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www.etilab.com

Comm Engineering
1319 W. Pinhook Rd. Ste 401
Lafayette LA, 70503

Project: Tomcat 16 State #003
Project Number: 240646
Project Manager: Mr. Ryan Gleason

Reported:
02/21/25 15:26

QUALITY CONTROL

Anions by EPA Method 300.0
Environmental Testing, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch ENB0381 - General Prep - Wet Chem (Sd)										
Blank (ENB0381-BLK1)				**Prepared & Analyzed: 02/17/25**						
Chloride	<1.60	1.60	mg/Kg							
LCS (ENB0381-BS1)				**Prepared & Analyzed: 02/17/25**						
Chloride	6.03	1.60	mg/Kg	6.000		101	90-110			
Matrix Spike (ENB0381-MS1)		**Source: E5B0233-21**		**Prepared & Analyzed: 02/17/25**						
Chloride	106	8.00	mg/Kg	30.00	69.9	119	80-120			
Matrix Spike Dup (ENB0381-MSD1)		**Source: E5B0233-21**		**Prepared & Analyzed: 02/17/25**						
Chloride	103	8.00	mg/Kg	30.00	69.9	111	80-120	2	20	
Batch ENB0423 - General Prep - Wet Chem (Sd)										
Blank (ENB0423-BLK1)				**Prepared & Analyzed: 02/19/25**						
Chloride	<1.60	1.60	mg/Kg							
LCS (ENB0423-BS1)				**Prepared & Analyzed: 02/19/25**						
Chloride	6.22	1.60	mg/Kg	6.000		104	90-110			
Matrix Spike (ENB0423-MS1)		**Source: E5B0230-01**		**Prepared & Analyzed: 02/19/25**						
Chloride	45.8	8.00	mg/Kg	30.00	15.3	102	80-120			
Matrix Spike Dup (ENB0423-MSD1)		**Source: E5B0230-01**		**Prepared & Analyzed: 02/19/25**						
Chloride	43.9	8.00	mg/Kg	30.00	15.3	95	80-120	4	20	

Environmental Testing, Inc.

Keith Hopcus For Russell Britton, CEO

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.

E5B0230
Original
ETI_OKC_RPT MRL_rev49.0.rpt

E 5 B 0 2 3 0

ENVIRONMENTAL TESTING, INC.

4619 N. Santa Fe Ave
Oklahoma City, OK 73118
405.488.2400 Phone
405.488.2404 Fax
www.etilab.com

Comm Engineering	Project: Tomcat 16 State #003	
1319 W. Pinhook Rd. Ste 401	Project Number: 240646	**Reported:**
Lafayette LA, 70503	Project Manager: Mr. Ryan Gleason	02/21/25 15:26

Certifications

Code	Description	Number	Expires
NELAP/OK	NELAP Accredited (ODEQ)	2024-094	08/31/2025
TCEQ	Texas Accedited (TCEQ)	TX-C24-00089	03/31/2025

Qualifiers and Definitions

Abbreviation	Description
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
x	Non-Certified analyte
NA	Not Applicable

Qualifier	Description
COM	Completed
M-01	The matrix spike recovery was lower than expected due to sample matrix interference.
M-05	The matrix spike recovery was outside of control limits.

Environmental Testing, Inc.

Keith Hopcus For Russell Britton, CEO

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.

ENVIRONMENTAL TESTING, INC.

Sample Receipt Form: E5B0230

E 5 B 0 2 3 0

Environmental Testing, Inc.

Printed: 2/14/2025 4:25:01PM

Client:	**Comm Engineering**	**Project Manager:**	**Mr. Ryan Gleason**
Project:	**Tomcat 16 State #003**	**Project Number:**	**240646**

Report To:
Comm Engineering
Mr. Ryan Gleason
1319 W. Pinhook Rd. Ste 401
Lafayette, LA 70503

Phone: (405) 209-6859

Invoice To:
Comm Engineering
Mr. Ryan Gleason
1319 W. Pinhook Rd. Ste 401
Lafayette, LA 70503

Phone: (405) 209-6859

Date Due:	02/21/25 17:00 (5 day TAT)		
Received By:	Jordan Anderson	Date Received:	02/14/25 16:05
Logged In By:	Jordan Anderson	Date Logged In:	02/14/25 16:11

Samples Received at: 4.5°C

Custody seals	No	Received on ice	Yes	Sufficient sample	Yes
Containers intact	Yes	Sample or temp blank frozen	No		
COC/Labels agree	Yes	Headspace in VOA vials	No		
Preservation confirmed	No	Correct containers	Yes		

Notes:

Preservation Confirmation

Container ID	Container Type	pH	Date/Time	Lot #

Preservation Confirmed By

Date

Reviewed By

Date

ENVIRONMENTAL TESTING, INC.

Environmental Testing Inc.
4619 N. Santa Fe
Oklahoma City, OK 73118

CHAIN OF CUSTODY
Phone: (405) 488-2400
Fax: (405) 488-2404

Page 1 of 2

COC Number
Lab Work Order Number E580230

Client Name: COMM Engineering, Inc.	Project Name: Tomcat 16 State #003
Address: 1319 W. Pinhook Rd., Ste 401	Project Number: 240646
Lafayette, LA 70503	Project Description: Oil Release
Client Contact: Ryan Gleason	PO Number: N/A
Phone: 405.209.6859 Fax: N/A	Shipped By: N/A
Email: rlgleason@commengineering.com	Tracking Number: N/A
Sampler: Ryan Gleason	Sampler Signature:

Requested Analyses: TPH (C6 < C36), BTEX, Cl

Requested Turn Around
Rush requests subject to additional charge.
Rush requests subject to lab approval.
Standard
Standard (5 days)
Standard
Expedited (< 5 days)
Due Date

	Sample Name or Field ID	Sampled Date	Sampled Time	Code* Matrix	Code* Container Type	Container Size	Container Count	Preservation Code* Ice	Ice	Ice	Sample Comments
1	F1 18"	2/13/2025	0830	S	Glass	4 oz.	1	X	X	X	5-Point Composite
2	F2 18"	2/13/2025	0840	S	Glass	4 oz.	1	X	X	X	
3	F3 12"	2/13/2025	0850	S	Glass	4 oz.	1	X	X	X	
4	F4 12"	2/13/2025	0900	S	Glass	4 oz.	1	X	X	X	
5	F5 12"	2/13/2025	0910	S	Glass	4 oz.	1	X	X	X	
6	F6 18"	2/13/2025	0920	S	Glass	4 oz.	1	X	X	X	
7	F7 18"	2/13/2025	0930	S	Glass	4 oz.	1	X	X	X	
8	F8 18"	2/13/2025	0940	S	Glass	4 oz.	1	X	X	X	
9	F9 12"	2/13/2025	0950	S	Glass	4 oz.	1	X	X	X	
10	F10 12"	2/13/2025	1000	S	Glass	4 oz.	1	X	X	X	
11	F11 18"	2/13/2025	1010	S	Glass	4 oz.	1	X	X	X	
12	F12 18"	2/13/2025	1020	S	Glass	4 oz.	1	X	X	X	

Relinquished By	Date/Time 2/14/25 1605	Received By	Date/Time 2/14/25 16:05
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time

Comments

Cooler Numbers and Temperatures: on ice 3.6+0.9=4.5°C F100017

Matrix Codes: 1: Water, 2: Soil, 3: Sludge, 4: Oil, 5: Other
Container Type Codes: P: Plastic, G: Glass, V: VOA, O: Other, T: Teflon
Preserv. Codes: NP: No Preservative, HCl: Hydrochloric acid, HNO3: Nitric acid, NaOH: Sodium hydroxide, H2SO4: Sulfuric acid, MeOH: Methanol, ZnAc2: Zinc Acetate, Na2S2O3: Sodium thiosulfate

ENVIRONMENTAL TESTING, INC.

Environmental Testing Inc.
4619 N. Santa Fe
Oklahoma City, OK 73118

CHAIN OF CUSTODY
Phone: (405) 488-2400
Fax: (405) 488-2404

Page 2 of 2

COC Number
Lab Work Order Number ESBD230

Client Name: COMM Engineering, Inc.	Project Name: Tomcat 16 State #003
Address: 1319 W. Pinhook Rd., Ste 401	Project Number: 240646
Lafayette, LA 70503	Project Description: Oil Release
Client Contact: Ryan Gleason	PO Number: N/A
Phone: 405.209.6859 Fax: N/A	Shipped By: N/A
Email: rlgleason@commengineering.com	Tracking Number: N/A
Sampler: Ryan Gleason	Sampler Signature:

Requested Analyses: TPH (C6 < C36), BTEX, Cl

Requested Turn Around: Rush requests subject to additional charge. Rush requests subject to lab approval. Standard (5 days) — Standard. Expedited (< 5 days). Due Date.

	Sample Name or Field ID	Sampled Date	Sampled Time	Code* Matrix	Code* Container Type	Container Size	Container Count	Preservation Code* Ice	Ice	Ice	Sample Comments
13	F13 12"	2/13/2025	1030	S	Glass	4 oz.		X	X	X	5-Point Composite
14	F14 18"	2/13/2025	1040	S	Glass	4 oz.		X	X	X	
15	F15 18"	2/13/2025	1050	S	Glass	4 oz.		X	X	X	
16	SW1	2/13/2025	1100	S	Glass	4 oz.		X	X	X	
17	SW2	2/13/2025	1110	S	Glass	4 oz.		X	X	X	
18	SW3	2/13/2025	1120	S	Glass	4 oz.		X	X	X	
19	SW4	2/13/2025	1130	S	Glass	4 oz.		X	X	X	
20	SW5	2/13/2025	1140	S	Glass	4 oz.		X	X	X	
21	BG1	2/13/2025	1150	S	Glass	4 oz.		~~X~~		X	Grab
					Glass	4 oz.					
					Glass	4 oz.					
					Glass	4 oz.					

canceled per client 2/14/25

	Date/Time	Received By	Date/Time
Relinquished By	2/14/25 1605	2/14/25	2/14/25 16:05
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time

Cooler Numbers and Temperatures: Dry ice 3.6+0.9 = 4.5°C E7000117

Comments:

Matrix Codes: 1: Water, 2: Soil, 3: Sludge, 4: Oil, 5: Other **Container Type Codes:** P: Plastic, G: Glass, V: VOA, O: Other, T: Teflon **Preserv. Codes:** NP: No Preservative, HCl: Hydrochloric acid, HNO3: Nitric acid, NaOH: Sodium hydroxide, H2SO4: Sulfuric acid, MeOH: Methanol, ZnAc2: Zinc Acetate, Na2S2O3: Sodium thiosulfate

CARDINAL Laboratories

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

April 10, 2025

RYAN GLEASON

COMM ENGINEERING

1319 W. PINHOOK, SUITE 400

LAFAYETTE, LA 70503

RE: TOMCAT 16 STATE #003

Enclosed are the results of analyses for samples received by the laboratory on 04/04/25 16:38.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

COMM ENGINEERING
RYAN GLEASON
1319 W. PINHOOK, SUITE 400
LAFAYETTE LA, 70503
Fax To:

Received:	04/04/2025	Sampling Date:	04/04/2025
Reported:	04/10/2025	Sampling Type:	Soil
Project Name:	TOMCAT 16 STATE #003	Sampling Condition:	Cool & Intact
Project Number:	240646	Sample Received By:	Tamara Oldaker
Project Location:	HARVARD 32.302722, -103.686035		

Sample ID: F 1 18" (H252029-01)

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	04/09/2025	ND	2.05	103	2.00	2.69	
Toluene*	<0.050	0.050	04/09/2025	ND	1.95	97.7	2.00	0.973	
Ethylbenzene*	<0.050	0.050	04/09/2025	ND	1.95	97.7	2.00	2.08	
Total Xylenes*	<0.150	0.150	04/09/2025	ND	6.06	101	6.00	3.75	
Total BTEX	<0.300	0.300	04/09/2025	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/07/2025	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	04/08/2025	ND	196	97.9	200	1.77	
DRO >C10-C28*	<10.0	10.0	04/08/2025	ND	180	90.2	200	0.479	
EXT DRO >C28-C36	<10.0	10.0	04/08/2025	ND					

Surrogate: 1-Chlorooctane *86.9 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *86.9 %* *40.6-153*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

COMM ENGINEERING
RYAN GLEASON
1319 W. PINHOOK, SUITE 400
LAFAYETTE LA, 70503
Fax To:

Received:	04/04/2025	Sampling Date:	04/04/2025
Reported:	04/10/2025	Sampling Type:	Soil
Project Name:	TOMCAT 16 STATE #003	Sampling Condition:	Cool & Intact
Project Number:	240646	Sample Received By:	Tamara Oldaker
Project Location:	HARVARD 32.302722, -103.686035		

Sample ID: F 2 18" (H252029-02)

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	04/09/2025	ND	2.05	103	2.00	2.69	
Toluene*	<0.050	0.050	04/09/2025	ND	1.95	97.7	2.00	0.973	
Ethylbenzene*	<0.050	0.050	04/09/2025	ND	1.95	97.7	2.00	2.08	
Total Xylenes*	<0.150	0.150	04/09/2025	ND	6.06	101	6.00	3.75	
Total BTEX	<0.300	0.300	04/09/2025	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/07/2025	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	04/08/2025	ND	195	97.4	200	0.0647	
DRO >C10-C28*	<10.0	10.0	04/08/2025	ND	200	100	200	0.295	
EXT DRO >C28-C36	<10.0	10.0	04/08/2025	ND					

Surrogate: 1-Chlorooctane *100 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *96.7 %* *40.6-153*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

COMM ENGINEERING
RYAN GLEASON
1319 W. PINHOOK, SUITE 400
LAFAYETTE LA, 70503
Fax To:

Received:	04/04/2025	Sampling Date:	04/04/2025
Reported:	04/10/2025	Sampling Type:	Soil
Project Name:	TOMCAT 16 STATE #003	Sampling Condition:	Cool & Intact
Project Number:	240646	Sample Received By:	Tamara Oldaker
Project Location:	HARVARD 32.302722, -103.686035		

Sample ID: F 3 12'' (H252029-03)

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	04/09/2025	ND	2.05	103	2.00	2.69	
Toluene*	<0.050	0.050	04/09/2025	ND	1.95	97.7	2.00	0.973	
Ethylbenzene*	<0.050	0.050	04/09/2025	ND	1.95	97.7	2.00	2.08	
Total Xylenes*	<0.150	0.150	04/09/2025	ND	6.06	101	6.00	3.75	
Total BTEX	<0.300	0.300	04/09/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *104 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/07/2025	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	04/08/2025	ND	195	97.4	200	0.0647	
DRO >C10-C28*	<10.0	10.0	04/08/2025	ND	200	100	200	0.295	
EXT DRO >C28-C36	<10.0	10.0	04/08/2025	ND					

Surrogate: 1-Chlorooctane *93.4 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *90.0 %* *40.6-153*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

COMM ENGINEERING
RYAN GLEASON
1319 W. PINHOOK, SUITE 400
LAFAYETTE LA, 70503
Fax To:

Received:	04/04/2025	Sampling Date:	04/04/2025
Reported:	04/10/2025	Sampling Type:	Soil
Project Name:	TOMCAT 16 STATE #003	Sampling Condition:	Cool & Intact
Project Number:	240646	Sample Received By:	Tamara Oldaker
Project Location:	HARVARD 32.302722, -103.686035		

Sample ID: F 4 12" (H252029-04)

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	04/09/2025	ND	2.05	103	2.00	2.69	
Toluene*	<0.050	0.050	04/09/2025	ND	1.95	97.7	2.00	0.973	
Ethylbenzene*	<0.050	0.050	04/09/2025	ND	1.95	97.7	2.00	2.08	
Total Xylenes*	<0.150	0.150	04/09/2025	ND	6.06	101	6.00	3.75	
Total BTEX	<0.300	0.300	04/09/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *101 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/07/2025	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	04/08/2025	ND	195	97.4	200	0.0647	
DRO >C10-C28*	<10.0	10.0	04/08/2025	ND	200	100	200	0.295	
EXT DRO >C28-C36	<10.0	10.0	04/08/2025	ND					

Surrogate: 1-Chlorooctane *90.2 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *87.2 %* *40.6-153*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

COMM ENGINEERING
RYAN GLEASON
1319 W. PINHOOK, SUITE 400
LAFAYETTE LA, 70503
Fax To:

Received:	04/04/2025	Sampling Date:	04/04/2025
Reported:	04/10/2025	Sampling Type:	Soil
Project Name:	TOMCAT 16 STATE #003	Sampling Condition:	Cool & Intact
Project Number:	240646	Sample Received By:	Tamara Oldaker
Project Location:	HARVARD 32.302722, -103.686035		

Sample ID: F 5 12" (H252029-05)

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	04/09/2025	ND	2.05	103	2.00	2.69	
Toluene*	<0.050	0.050	04/09/2025	ND	1.95	97.7	2.00	0.973	
Ethylbenzene*	<0.050	0.050	04/09/2025	ND	1.95	97.7	2.00	2.08	
Total Xylenes*	<0.150	0.150	04/09/2025	ND	6.06	101	6.00	3.75	
Total BTEX	<0.300	0.300	04/09/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *107 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/07/2025	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	04/08/2025	ND	195	97.4	200	0.0647	
DRO >C10-C28*	<10.0	10.0	04/08/2025	ND	200	100	200	0.295	
EXT DRO >C28-C36	<10.0	10.0	04/08/2025	ND					

Surrogate: 1-Chlorooctane *94.5 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *91.6 %* *40.6-153*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

COMM ENGINEERING
RYAN GLEASON
1319 W. PINHOOK, SUITE 400
LAFAYETTE LA, 70503
Fax To:

Received:	04/04/2025	Sampling Date:	04/04/2025
Reported:	04/10/2025	Sampling Type:	Soil
Project Name:	TOMCAT 16 STATE #003	Sampling Condition:	Cool & Intact
Project Number:	240646	Sample Received By:	Tamara Oldaker
Project Location:	HARVARD 32.302722, -103.686035		

Sample ID: F 6 30" (H252029-06)

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	04/09/2025	ND	1.97	98.7	2.00	0.156	
Toluene*	<0.050	0.050	04/09/2025	ND	2.06	103	2.00	1.29	
Ethylbenzene*	<0.050	0.050	04/09/2025	ND	2.03	102	2.00	2.06	
Total Xylenes*	<0.150	0.150	04/09/2025	ND	5.98	99.7	6.00	2.21	
Total BTEX	<0.300	0.300	04/09/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *98.8 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/07/2025	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	04/08/2025	ND	195	97.4	200	0.0647	
DRO >C10-C28*	<10.0	10.0	04/08/2025	ND	200	100	200	0.295	
EXT DRO >C28-C36	<10.0	10.0	04/08/2025	ND					

Surrogate: 1-Chlorooctane *94.0 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *89.3 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

COMM ENGINEERING
RYAN GLEASON
1319 W. PINHOOK, SUITE 400
LAFAYETTE LA, 70503
Fax To:

Received:	04/04/2025	Sampling Date:	04/04/2025
Reported:	04/10/2025	Sampling Type:	Soil
Project Name:	TOMCAT 16 STATE #003	Sampling Condition:	Cool & Intact
Project Number:	240646	Sample Received By:	Tamara Oldaker
Project Location:	HARVARD 32.302722, -103.686035		

Sample ID: F 7 18" (H252029-07)

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	04/09/2025	ND	1.97	98.7	2.00	0.156	
Toluene*	<0.050	0.050	04/09/2025	ND	2.06	103	2.00	1.29	
Ethylbenzene*	<0.050	0.050	04/09/2025	ND	2.03	102	2.00	2.06	
Total Xylenes*	<0.150	0.150	04/09/2025	ND	5.98	99.7	6.00	2.21	
Total BTEX	<0.300	0.300	04/09/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *97.8 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/07/2025	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	04/08/2025	ND	195	97.4	200	0.0647	
DRO >C10-C28*	<10.0	10.0	04/08/2025	ND	200	100	200	0.295	
EXT DRO >C28-C36	<10.0	10.0	04/08/2025	ND					

Surrogate: 1-Chlorooctane *92.6 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *89.0 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

COMM ENGINEERING
RYAN GLEASON
1319 W. PINHOOK, SUITE 400
LAFAYETTE LA, 70503
Fax To:

Received:	04/04/2025	Sampling Date:	04/04/2025
Reported:	04/10/2025	Sampling Type:	Soil
Project Name:	TOMCAT 16 STATE #003	Sampling Condition:	Cool & Intact
Project Number:	240646	Sample Received By:	Tamara Oldaker
Project Location:	HARVARD 32.302722, -103.686035		

Sample ID: F 8 30" (H252029-08)

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	04/09/2025	ND	1.97	98.7	2.00	0.156	
Toluene*	<0.050	0.050	04/09/2025	ND	2.06	103	2.00	1.29	
Ethylbenzene*	<0.050	0.050	04/09/2025	ND	2.03	102	2.00	2.06	
Total Xylenes*	<0.150	0.150	04/09/2025	ND	5.98	99.7	6.00	2.21	
Total BTEX	<0.300	0.300	04/09/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.7 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/07/2025	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	04/08/2025	ND	195	97.4	200	0.0647	
DRO >C10-C28*	<10.0	10.0	04/08/2025	ND	200	100	200	0.295	
EXT DRO >C28-C36	<10.0	10.0	04/08/2025	ND					

Surrogate: 1-Chlorooctane *92.2 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *87.3 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

COMM ENGINEERING
RYAN GLEASON
1319 W. PINHOOK, SUITE 400
LAFAYETTE LA, 70503
Fax To:

Received:	04/04/2025	Sampling Date:	04/04/2025
Reported:	04/10/2025	Sampling Type:	Soil
Project Name:	TOMCAT 16 STATE #003	Sampling Condition:	Cool & Intact
Project Number:	240646	Sample Received By:	Tamara Oldaker
Project Location:	HARVARD 32.302722, -103.686035		

Sample ID: F 9 30" (H252029-09)

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	04/09/2025	ND	1.97	98.7	2.00	0.156	
Toluene*	<0.050	0.050	04/09/2025	ND	2.06	103	2.00	1.29	
Ethylbenzene*	<0.050	0.050	04/09/2025	ND	2.03	102	2.00	2.06	
Total Xylenes*	<0.150	0.150	04/09/2025	ND	5.98	99.7	6.00	2.21	
Total BTEX	<0.300	0.300	04/09/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *97.4 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/07/2025	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	04/08/2025	ND	195	97.4	200	0.0647	
DRO >C10-C28*	<10.0	10.0	04/08/2025	ND	200	100	200	0.295	
EXT DRO >C28-C36	<10.0	10.0	04/08/2025	ND					

Surrogate: 1-Chlorooctane *90.4 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *85.5 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

COMM ENGINEERING
RYAN GLEASON
1319 W. PINHOOK, SUITE 400
LAFAYETTE LA, 70503
Fax To:

Received:	04/04/2025	Sampling Date:	04/04/2025
Reported:	04/10/2025	Sampling Type:	Soil
Project Name:	TOMCAT 16 STATE #003	Sampling Condition:	Cool & Intact
Project Number:	240646	Sample Received By:	Tamara Oldaker
Project Location:	HARVARD 32.302722, -103.686035		

Sample ID: F 10 30" (H252029-10)

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	04/09/2025	ND	1.97	98.7	2.00	0.156	
Toluene*	<0.050	0.050	04/09/2025	ND	2.06	103	2.00	1.29	
Ethylbenzene*	<0.050	0.050	04/09/2025	ND	2.03	102	2.00	2.06	
Total Xylenes*	<0.150	0.150	04/09/2025	ND	5.98	99.7	6.00	2.21	
Total BTEX	<0.300	0.300	04/09/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *98.6 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/07/2025	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	04/08/2025	ND	195	97.4	200	0.0647	
DRO >C10-C28*	<10.0	10.0	04/08/2025	ND	200	100	200	0.295	
EXT DRO >C28-C36	<10.0	10.0	04/08/2025	ND					

Surrogate: 1-Chlorooctane *91.0 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *86.1 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

COMM ENGINEERING
RYAN GLEASON
1319 W. PINHOOK, SUITE 400
LAFAYETTE LA, 70503
Fax To:

Received:	04/04/2025	Sampling Date:	04/04/2025
Reported:	04/10/2025	Sampling Type:	Soil
Project Name:	TOMCAT 16 STATE #003	Sampling Condition:	Cool & Intact
Project Number:	240646	Sample Received By:	Tamara Oldaker
Project Location:	HARVARD 32.302722, -103.686035		

Sample ID: F 11 30" (H252029-11)

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	04/09/2025	ND	1.97	98.7	2.00	0.156	
Toluene*	<0.050	0.050	04/09/2025	ND	2.06	103	2.00	1.29	
Ethylbenzene*	<0.050	0.050	04/09/2025	ND	2.03	102	2.00	2.06	
Total Xylenes*	<0.150	0.150	04/09/2025	ND	5.98	99.7	6.00	2.21	
Total BTEX	<0.300	0.300	04/09/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.2 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/07/2025	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	04/08/2025	ND	195	97.4	200	0.0647	
DRO >C10-C28*	<10.0	10.0	04/08/2025	ND	200	100	200	0.295	
EXT DRO >C28-C36	<10.0	10.0	04/08/2025	ND					

Surrogate: 1-Chlorooctane *95.1 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *90.5 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

COMM ENGINEERING
RYAN GLEASON
1319 W. PINHOOK, SUITE 400
LAFAYETTE LA, 70503
Fax To:

Received:	04/04/2025	Sampling Date:	04/04/2025
Reported:	04/10/2025	Sampling Type:	Soil
Project Name:	TOMCAT 16 STATE #003	Sampling Condition:	Cool & Intact
Project Number:	240646	Sample Received By:	Tamara Oldaker
Project Location:	HARVARD 32.302722, -103.686035		

Sample ID: F 12 30" (H252029-12)

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	04/09/2025	ND	1.97	98.7	2.00	0.156	
Toluene*	<0.050	0.050	04/09/2025	ND	2.06	103	2.00	1.29	
Ethylbenzene*	<0.050	0.050	04/09/2025	ND	2.03	102	2.00	2.06	
Total Xylenes*	<0.150	0.150	04/09/2025	ND	5.98	99.7	6.00	2.21	
Total BTEX	<0.300	0.300	04/09/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *98.9 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/07/2025	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	04/08/2025	ND	195	97.4	200	0.0647	
DRO >C10-C28*	<10.0	10.0	04/08/2025	ND	200	100	200	0.295	
EXT DRO >C28-C36	<10.0	10.0	04/08/2025	ND					

Surrogate: 1-Chlorooctane *101 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *95.8 %* *40.6-153*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

COMM ENGINEERING
RYAN GLEASON
1319 W. PINHOOK, SUITE 400
LAFAYETTE LA, 70503
Fax To:

Received:	04/04/2025	Sampling Date:	04/04/2025
Reported:	04/10/2025	Sampling Type:	Soil
Project Name:	TOMCAT 16 STATE #003	Sampling Condition:	Cool & Intact
Project Number:	240646	Sample Received By:	Tamara Oldaker
Project Location:	HARVARD 32.302722, -103.686035		

Sample ID: F 13 30" (H252029-13)

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	04/09/2025	ND	1.97	98.7	2.00	0.156	
Toluene*	<0.050	0.050	04/09/2025	ND	2.06	103	2.00	1.29	
Ethylbenzene*	<0.050	0.050	04/09/2025	ND	2.03	102	2.00	2.06	
Total Xylenes*	<0.150	0.150	04/09/2025	ND	5.98	99.7	6.00	2.21	
Total BTEX	<0.300	0.300	04/09/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.3 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/07/2025	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	04/08/2025	ND	195	97.4	200	0.0647	
DRO >C10-C28*	<10.0	10.0	04/08/2025	ND	200	100	200	0.295	
EXT DRO >C28-C36	<10.0	10.0	04/08/2025	ND					

Surrogate: 1-Chlorooctane *94.0 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *90.3 %* *40.6-153*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

COMM ENGINEERING
RYAN GLEASON
1319 W. PINHOOK, SUITE 400
LAFAYETTE LA, 70503
Fax To:

Received:	04/04/2025	Sampling Date:	04/04/2025
Reported:	04/10/2025	Sampling Type:	Soil
Project Name:	TOMCAT 16 STATE #003	Sampling Condition:	Cool & Intact
Project Number:	240646	Sample Received By:	Tamara Oldaker
Project Location:	HARVARD 32.302722, -103.686035		

Sample ID: F 14 30" (H252029-14)

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	04/09/2025	ND	1.97	98.7	2.00	0.156	
Toluene*	<0.050	0.050	04/09/2025	ND	2.06	103	2.00	1.29	
Ethylbenzene*	<0.050	0.050	04/09/2025	ND	2.03	102	2.00	2.06	
Total Xylenes*	<0.150	0.150	04/09/2025	ND	5.98	99.7	6.00	2.21	
Total BTEX	<0.300	0.300	04/09/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.8 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/07/2025	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	04/08/2025	ND	195	97.4	200	0.0647	
DRO >C10-C28*	<10.0	10.0	04/08/2025	ND	200	100	200	0.295	
EXT DRO >C28-C36	<10.0	10.0	04/08/2025	ND					

Surrogate: 1-Chlorooctane *92.4 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *88.5 %* *40.6-153*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

COMM ENGINEERING
RYAN GLEASON
1319 W. PINHOOK, SUITE 400
LAFAYETTE LA, 70503
Fax To:

Received:	04/04/2025	Sampling Date:	04/04/2025
Reported:	04/10/2025	Sampling Type:	Soil
Project Name:	TOMCAT 16 STATE #003	Sampling Condition:	Cool & Intact
Project Number:	240646	Sample Received By:	Tamara Oldaker
Project Location:	HARVARD 32.302722, -103.686035		

Sample ID: F 15 18" (H252029-15)

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	04/09/2025	ND	1.97	98.7	2.00	0.156	
Toluene*	<0.050	0.050	04/09/2025	ND	2.06	103	2.00	1.29	
Ethylbenzene*	<0.050	0.050	04/09/2025	ND	2.03	102	2.00	2.06	
Total Xylenes*	<0.150	0.150	04/09/2025	ND	5.98	99.7	6.00	2.21	
Total BTEX	<0.300	0.300	04/09/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.6 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/07/2025	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	04/08/2025	ND	195	97.4	200	0.0647	
DRO >C10-C28*	<10.0	10.0	04/08/2025	ND	200	100	200	0.295	
EXT DRO >C28-C36	<10.0	10.0	04/08/2025	ND					

Surrogate: 1-Chlorooctane *97.2 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *92.5 %* *40.6-153*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

COMM ENGINEERING
RYAN GLEASON
1319 W. PINHOOK, SUITE 400
LAFAYETTE LA, 70503
Fax To:

Received:	04/04/2025	Sampling Date:	04/04/2025
Reported:	04/10/2025	Sampling Type:	Soil
Project Name:	TOMCAT 16 STATE #003	Sampling Condition:	Cool & Intact
Project Number:	240646	Sample Received By:	Tamara Oldaker
Project Location:	HARVARD 32.302722, -103.686035		

Sample ID: SW 1 (H252029-16)

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	04/09/2025	ND	1.97	98.7	2.00	0.156	
Toluene*	<0.050	0.050	04/09/2025	ND	2.06	103	2.00	1.29	
Ethylbenzene*	<0.050	0.050	04/09/2025	ND	2.03	102	2.00	2.06	
Total Xylenes*	<0.150	0.150	04/09/2025	ND	5.98	99.7	6.00	2.21	
Total BTEX	<0.300	0.300	04/09/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.2 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/07/2025	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	04/08/2025	ND	195	97.4	200	0.0647	
DRO >C10-C28*	<10.0	10.0	04/08/2025	ND	200	100	200	0.295	
EXT DRO >C28-C36	<10.0	10.0	04/08/2025	ND					

Surrogate: 1-Chlorooctane *97.9 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *95.3 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

COMM ENGINEERING
RYAN GLEASON
1319 W. PINHOOK, SUITE 400
LAFAYETTE LA, 70503
Fax To:

Received:	04/04/2025	Sampling Date:	04/04/2025
Reported:	04/10/2025	Sampling Type:	Soil
Project Name:	TOMCAT 16 STATE #003	Sampling Condition:	Cool & Intact
Project Number:	240646	Sample Received By:	Tamara Oldaker
Project Location:	HARVARD 32.302722, -103.686035		

Sample ID: SW 2 (H252029-17)

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	04/09/2025	ND	1.97	98.7	2.00	0.156	
Toluene*	<0.050	0.050	04/09/2025	ND	2.06	103	2.00	1.29	
Ethylbenzene*	<0.050	0.050	04/09/2025	ND	2.03	102	2.00	2.06	
Total Xylenes*	<0.150	0.150	04/09/2025	ND	5.98	99.7	6.00	2.21	
Total BTEX	<0.300	0.300	04/09/2025	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/07/2025	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	04/08/2025	ND	195	97.4	200	0.0647	
DRO >C10-C28*	<10.0	10.0	04/08/2025	ND	200	100	200	0.295	
EXT DRO >C28-C36	<10.0	10.0	04/08/2025	ND					

Surrogate: 1-Chlorooctane *90.0 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *86.3 %* *40.6-153*

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CARDINAL Laboratories

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

Analytical Results For:

COMM ENGINEERING
RYAN GLEASON
1319 W. PINHOOK, SUITE 400
LAFAYETTE LA, 70503
Fax To:

Received:	04/04/2025	Sampling Date:	04/04/2025
Reported:	04/10/2025	Sampling Type:	Soil
Project Name:	TOMCAT 16 STATE #003	Sampling Condition:	Cool & Intact
Project Number:	240646	Sample Received By:	Tamara Oldaker
Project Location:	HARVARD 32.302722, -103.686035		

Sample ID: SW 3 (H252029-18)

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	04/09/2025	ND	1.97	98.7	2.00	0.156	
Toluene*	<0.050	0.050	04/09/2025	ND	2.06	103	2.00	1.29	
Ethylbenzene*	<0.050	0.050	04/09/2025	ND	2.03	102	2.00	2.06	
Total Xylenes*	<0.150	0.150	04/09/2025	ND	5.98	99.7	6.00	2.21	
Total BTEX	<0.300	0.300	04/09/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *98.4 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/07/2025	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	04/08/2025	ND	195	97.4	200	0.0647	
DRO >C10-C28*	<10.0	10.0	04/08/2025	ND	200	100	200	0.295	
EXT DRO >C28-C36	<10.0	10.0	04/08/2025	ND					

Surrogate: 1-Chlorooctane *92.5 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *87.5 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

COMM ENGINEERING
RYAN GLEASON
1319 W. PINHOOK, SUITE 400
LAFAYETTE LA, 70503
Fax To:

Received:	04/04/2025	Sampling Date:	04/04/2025
Reported:	04/10/2025	Sampling Type:	Soil
Project Name:	TOMCAT 16 STATE #003	Sampling Condition:	Cool & Intact
Project Number:	240646	Sample Received By:	Tamara Oldaker
Project Location:	HARVARD 32.302722, -103.686035		

Sample ID: SW 4 (H252029-19)

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	04/09/2025	ND	1.97	98.7	2.00	0.156	
Toluene*	<0.050	0.050	04/09/2025	ND	2.06	103	2.00	1.29	
Ethylbenzene*	<0.050	0.050	04/09/2025	ND	2.03	102	2.00	2.06	
Total Xylenes*	<0.150	0.150	04/09/2025	ND	5.98	99.7	6.00	2.21	
Total BTEX	<0.300	0.300	04/09/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *98.3 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/07/2025	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	04/08/2025	ND	195	97.4	200	0.0647	
DRO >C10-C28*	<10.0	10.0	04/08/2025	ND	200	100	200	0.295	
EXT DRO >C28-C36	<10.0	10.0	04/08/2025	ND					

Surrogate: 1-Chlorooctane *98.1 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *93.8 %* *40.6-153*

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CARDINAL Laboratories

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

Analytical Results For:

COMM ENGINEERING
RYAN GLEASON
1319 W. PINHOOK, SUITE 400
LAFAYETTE LA, 70503
Fax To:

Received:	04/04/2025	Sampling Date:	04/04/2025
Reported:	04/10/2025	Sampling Type:	Soil
Project Name:	TOMCAT 16 STATE #003	Sampling Condition:	Cool & Intact
Project Number:	240646	Sample Received By:	Tamara Oldaker
Project Location:	HARVARD 32.302722, -103.686035		

Sample ID: SW 5 (H252029-20)

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	04/09/2025	ND	1.97	98.7	2.00	0.156	
Toluene*	<0.050	0.050	04/09/2025	ND	2.06	103	2.00	1.29	
Ethylbenzene*	<0.050	0.050	04/09/2025	ND	2.03	102	2.00	2.06	
Total Xylenes*	<0.150	0.150	04/09/2025	ND	5.98	99.7	6.00	2.21	
Total BTEX	<0.300	0.300	04/09/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *98.9 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/07/2025	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	04/08/2025	ND	195	97.4	200	0.0647	
DRO >C10-C28*	<10.0	10.0	04/08/2025	ND	200	100	200	0.295	
EXT DRO >C28-C36	<10.0	10.0	04/08/2025	ND					

Surrogate: 1-Chlorooctane *92.0 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *87.4 %* *40.6-153*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

COMM ENGINEERING
RYAN GLEASON
1319 W. PINHOOK, SUITE 400
LAFAYETTE LA, 70503
Fax To:

Received:	04/04/2025	Sampling Date:	04/04/2025
Reported:	04/10/2025	Sampling Type:	Soil
Project Name:	TOMCAT 16 STATE #003	Sampling Condition:	Cool & Intact
Project Number:	240646	Sample Received By:	Tamara Oldaker
Project Location:	HARVARD 32.302722, -103.686035		

Sample ID: SW 6 (H252029-21)

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	04/09/2025	ND	1.97	98.7	2.00	0.156	
Toluene*	<0.050	0.050	04/09/2025	ND	2.06	103	2.00	1.29	
Ethylbenzene*	<0.050	0.050	04/09/2025	ND	2.03	102	2.00	2.06	
Total Xylenes*	<0.150	0.150	04/09/2025	ND	5.98	99.7	6.00	2.21	
Total BTEX	<0.300	0.300	04/09/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.7 %* *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	**16.0**	16.0	04/07/2025	ND	416	104	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	04/08/2025	ND	195	97.4	200	0.0647	
DRO >C10-C28*	<10.0	10.0	04/08/2025	ND	200	100	200	0.295	
EXT DRO >C28-C36	<10.0	10.0	04/08/2025	ND					

Surrogate: 1-Chlorooctane *94.6 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *90.5 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

COMM ENGINEERING
RYAN GLEASON
1319 W. PINHOOK, SUITE 400
LAFAYETTE LA, 70503
Fax To:

Received:	04/04/2025	Sampling Date:	04/04/2025
Reported:	04/10/2025	Sampling Type:	Soil
Project Name:	TOMCAT 16 STATE #003	Sampling Condition:	Cool & Intact
Project Number:	240646	Sample Received By:	Tamara Oldaker
Project Location:	HARVARD 32.302722, -103.686035		

Sample ID: SW 7 (H252029-22)

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	04/09/2025	ND	1.97	98.7	2.00	0.156	
Toluene*	<0.050	0.050	04/09/2025	ND	2.06	103	2.00	1.29	
Ethylbenzene*	<0.050	0.050	04/09/2025	ND	2.03	102	2.00	2.06	
Total Xylenes*	<0.150	0.150	04/09/2025	ND	5.98	99.7	6.00	2.21	
Total BTEX	<0.300	0.300	04/09/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.3 %* *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	**16.0**	16.0	04/07/2025	ND	416	104	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	04/08/2025	ND	211	105	200	3.07	
DRO >C10-C28*	<10.0	10.0	04/08/2025	ND	203	101	200	1.88	
EXT DRO >C28-C36	<10.0	10.0	04/08/2025	ND					

Surrogate: 1-Chlorooctane *101 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *96.4 %* *40.6-153*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

COMM ENGINEERING
RYAN GLEASON
1319 W. PINHOOK, SUITE 400
LAFAYETTE LA, 70503
Fax To:

Received:	04/04/2025	Sampling Date:	04/04/2025
Reported:	04/10/2025	Sampling Type:	Soil
Project Name:	TOMCAT 16 STATE #003	Sampling Condition:	Cool & Intact
Project Number:	240646	Sample Received By:	Tamara Oldaker
Project Location:	HARVARD 32.302722, -103.686035		

Sample ID: SW 8 (H252029-23)

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	04/09/2025	ND	1.97	98.7	2.00	0.156	
Toluene*	<0.050	0.050	04/09/2025	ND	2.06	103	2.00	1.29	
Ethylbenzene*	<0.050	0.050	04/09/2025	ND	2.03	102	2.00	2.06	
Total Xylenes*	<0.150	0.150	04/09/2025	ND	5.98	99.7	6.00	2.21	
Total BTEX	<0.300	0.300	04/09/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.0 %* *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	<16.0	16.0	04/07/2025	ND	416	104	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	04/08/2025	ND	211	105	200	3.07	
DRO >C10-C28*	<10.0	10.0	04/08/2025	ND	203	101	200	1.88	
EXT DRO >C28-C36	<10.0	10.0	04/08/2025	ND					

Surrogate: 1-Chlorooctane *109 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *104 %* *40.6-153*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

COMM ENGINEERING
RYAN GLEASON
1319 W. PINHOOK, SUITE 400
LAFAYETTE LA, 70503
Fax To:

Received:	04/04/2025	Sampling Date:	04/04/2025
Reported:	04/10/2025	Sampling Type:	Soil
Project Name:	TOMCAT 16 STATE #003	Sampling Condition:	Cool & Intact
Project Number:	240646	Sample Received By:	Tamara Oldaker
Project Location:	HARVARD 32.302722, -103.686035		

Sample ID: BG 1 (H252029-24)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: CT**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/07/2025	ND	416	104	400	0.00	

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Notes and Definitions

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

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:	COMM Engineering
Project Manager:	Ryan Gleason
Address:	1319 W. Pinhook Rd., Ste 400
City:	Lafayette State: LA Zip: 70503
Phone #:	405.209.6859 Fax: N/A
Project #:	240646 Project Owner: Harvard Petroleum
Project Name:	Tomcat 16 State #003
Project Location:	32.302722, -103.686035
Sampler Name:	Ryan Gleason

BILL TO

P.O. #:	
Company:	AME
Attn:	
Address:	
City:	
State:	Zip:
Phone #:	
Fax #:	

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	Cl	TPH	BTEX
H252029																	
1	F1 18"	C				X					X		4/4/25	8am	X	X	X
2	F2 18"																
3	F3 12"																
4	F4 12"																
5	F5 12"																
6	F6 30"																
7	F7 18"																
8	F8 30"																
9	F9 30"																
10	F10 30"																

Relinquished By:	Date: 4/4/25	Received By:	
	Time: 1633		
Relinquished By:	Date:	Received By:	
	Time:		

Verbal Result: ☐ Yes ☐ No Add'l Phone #:
All Results are emailed. Please provide Email address:

REMARKS: CS.

Turnaround Time: Standard ☑ Rush ☐

Thermometer ID #140
Correction Factor -0.6°C +0.3°

Bacteria (only) Sample Condition: Cool ☐ Yes ☐ No; Intact ☐ Yes ☐ No; Observed Temp. °C; Corrected Temp. °C

Delivered By: (Circle One)
Sampler - UPS - Bus - Other:

Observed Temp. °C 5.7
Corrected Temp. °C 6.0

Sample Condition: Cool ☑ Yes ☐ No; Intact ☑ Yes ☐ No

CHECKED BY: (Initials) TJ

FORM-006 R 3.3 08/05/24

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

CARDINAL Laboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:	COMM Engineering	**BILL TO**	
Project Manager:	Ryan Gleason	P.O. #:	
Address:	1319 W. Pinhook Rd., Ste. 400	Company:	SAME
City:	Lafayette	State: LA	Zip: 70503
Phone #:	405.209.6859	Fax #:	N/A
Project #:	240646	Project Owner:	Harvard Petroleum
Project Name:	Tomcat 16 State #003		
Project Location:	32.302722, -103.686035		
Sampler Name:	Ryan Gleason		

FOR LAB USE ONLY				MATRIX						PRESERV.			SAMPLING		ANALYSIS REQUEST		
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	Cl	TPH	BTEX
H25029																	
11	F11 30"	C				X					X		4/4/25	8am	X	X	X
12	F12 30"																
13	F13 30"																
14	F14 30"																
15	F15 18"																
16	SW1																
17	SW2																
18	SW3																
19	SW4																
20	SW5																

Relinquished By:	Date: 4/4/25	Received By:	Verbal Result: ☐ Yes ☐ No Add'l Phone #:
	Time: 1657		All Results are emailed. Please provide Email address:
Relinquished By:	Date:	Received By:	REMARKS:
	Time:		

Delivered By: (Circle One)	Observed Temp. °C 5.7	Sample Condition	CHECKED BY:	Turnaround Time: ☑ Standard ☐ Rush
Sampler - UPS - Bus - Other:	Corrected Temp. °C 6.0	Cool ☑ Yes ☐ No Intact ☑ Yes ☐ No	(Initials)	Thermometer ID #140 Correction Factor -0.6°C +0.3°C

Bacteria (only) Sample Condition: Cool ☐ Yes ☐ No Intact ☐ Yes ☐ No Observed Temp. °C Corrected Temp. °C

FORM-006 R 3.5 08/05/24

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

CARDINAL Laboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST†

Company Name:	COMM Engineering
Project Manager:	Ryan Gleason
Address:	1319 W. Pinhook Rd., Ste 406
City:	Lafayette State: LA Zip: 70503
Phone #:	405.209.6859 Fax #: N/A
Project #:	240646 Project Owner: Harvard Petroleum
Project Name:	Tomcat 16 State #003
Project Location:	32.302722, -103.686035
Sampler Name:	Ryan Gleason

BILL TO

P.O. #:	
Company:	SAME
Attn:	
Address:	
City:	
State:	Zip:
Phone #:	
Fax #:	

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING DATE	SAMPLING TIME	(C)	TPH	BTEX									
H252029																										
21	SW6	C	1			X					X		4/4/25	8am	X	X	X									
22	SW7	C	1			X					X				X	X	X									
23	SW8	C	1			X					X				X	X	X									
24	BG1	G	1			X					X				X											

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

Relinquished By:	Date: 4/4/25	Received By:	Verbal Result: ☐ Yes ☐ No Add'l Phone #:
	Time: 1678		All Results are emailed. Please provide Email address:
Relinquished By:	Date:	Received By:	REMARKS:
	Time:		

Delivered By: (Circle One) Sampler - UPS - Bus - Other:

Observed Temp. °C 5.7
Corrected Temp. °C 6.0

Sample Condition: Cool ☑ Yes ☐ No; Intact ☑ Yes ☐ No

CHECKED BY: (Initials)

Turnaround Time: Standard ☑ Rush ☐

Thermometer ID #140
Correction Factor -0.6°C +0.3°C

Bacteria (only) Sample Condition: Cool ☐ Yes ☐ No; Intact ☐ Yes ☐ No; Observed Temp. °C; Corrected Temp. °C

FORM-006 R 3.3 08/05/24

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

OCD Permitting

[NOTIFY] Notification Of Sampling (C-141N) Application

Submission Information

Submission ID:	430364	**Districts:**	Hobbs
Operator:	[10155] HARVARD PETROLEUM COMPANY, LLC	**Counties:**	Lea
Description:	HARVARD PETROLEUM COMPANY, LLC [10155] , TOMCAT 16 STATE #003 , nAPP2434026328		
Status:	APPROVED		
Status Date:	02/10/2025		
References (2):	30-025-34809, nAPP2434026328		

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)	**nAPP2434026328**
Incident Name	**NAPP2434026328 TOMCAT 16 STATE #003 @ 30-025-34809**
Incident Type	**Other**
Incident Status	**Initial C-141 Approved**
Incident Well	**[30-025-34809] TOMCAT 16 STATE #003**

Location of Release Source

Site Name	**TOMCAT 16 STATE #003**
Date Release Discovered	**12/04/2024**
Surface Owner	**State**

Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet	5,000
What is the estimated number of samples that will be gathered	15
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/13/2025
Time sampling will commence	08:00 AM
Warning: Notification can not be less than two business days prior to conducting final sampling.	
Please provide any information necessary for observers to contact samplers	405.209.6859
Please provide any information necessary for navigation to sampling site	N/A

Comments

No comments found for this submission.

Conditions

Summary: *rkidd (2/10/2025),* Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

Reasons

No reasons found for this submission.

Fees

No fees found for this submission.

Go Back

OCD Permitting

[NOTIFY] Notification Of Sampling (C-141N) Application

Submission Information

Submission ID:	447856	**Districts:**	Hobbs
Operator:	[10155] HARVARD PETROLEUM COMPANY, LLC	**Counties:**	Lea
Description:	HARVARD PETROLEUM COMPANY, LLC [10155] , TOMCAT 16 STATE #003 , nAPP2434026328		
Status:	APPROVED		
Status Date:	04/01/2025		
References (2):	30-025-34809, nAPP2434026328		

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)	**nAPP2434026328**
Incident Name	**NAPP2434026328 TOMCAT 16 STATE #003 @ 30-025-34809**
Incident Type	**Other**
Incident Status	**Initial C-141 Approved**
Incident Well	**[30-025-34809] TOMCAT 16 STATE #003**

Location of Release Source

Site Name	**TOMCAT 16 STATE #003**
Date Release Discovered	**12/04/2024**
Surface Owner	**State**

Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet	2,373
What is the estimated number of samples that will be gathered	21
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	03/04/2025
Time sampling will commence	08:00 AM
Warning: Notification can not be less than two business days prior to conducting final sampling.	
Please provide any information necessary for observers to contact samplers	Ryan Gleason - 405.209.6859
Please provide any information necessary for navigation to sampling site	None

Comments

No comments found for this submission.

Conditions

Summary: *rkidd (4/1/2025),* Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

Reasons

No reasons found for this submission.

Go Back

LEA LAND LLC

LEA LAND, LLC SURFACE WASTE LANDFILL

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

NON-HAZARDOUS WASTE MANIFEST	No. 211428	Trailer No. MATEO-03

GENERATOR

Company Name: Harvard Petroleum Phone: (575) 623-1581	Address: 200 East 2nd St. Roswell, NM 88201	Disposal Date: 12-05-2024 04:49 PM

Name Or Description Of Waste Shipped:

[X] RCRA Exempt [ ] RCRA Non-Exempt

Weight (lbs): 35200

Lease/Job Name: TOMCAT 16-3

Generator's Representative: Jeff Harvard

TRANSPORTER

Name: Dupree

Emergency Contact: Shon

Emergency Contact Phone: (432) 582-2959

Transporter: Acknowledgment of Delivery of Material

Printed/Typed Name (Impreso/Mecanografico): X Johnny Carrillo

Signature (Firma): X [signature] **Date:** 12-05-2024 04:49 PM

DISPOSAL FACILITY

Lea Land, LLC	Mile Marker 64, U.S. Hwy 62/180, 30 Miles East Of Carlsbad, NM	(575) 887-4048
Permit No: NM-1-0035-New Mexico	**Comments:**	

Disposal Facility's Certification:
I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.

Authorized Signature: [signature]	Unit No: IIB	Date 12-05-2024	Time 04:49 PM

LEA LAND LLC

LEA LAND, LLC SURFACE WASTE LANDFILL

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

NON-HAZARDOUS WASTE MANIFEST		No. 211458	Trailer No. MATEO-3926
GENERATOR	**Company Name:** Harvard Petroleum **Phone:** (575) 623-1581	**Address:** 200 East 2nd St. Roswell, NM 88201	**Disposal Date:** 12-06-2024 10:10 AM
	Name Or Description Of Waste Shipped: [X] RCRA Exempt [ ] RCRA Non-Exempt		
	Weight (lbs): 39140		
	Lease/Job Name: TOMCAT 16 STATE 3		
	Generator's Representative: Jeff Harvard		
TRANSPORTER	**Name:** Dupree **Emergency Contact:** Shon **Emergency Contact Phone:** (432) 582-2959		
	Transporter: Acknowledgment of Delivery of Material **Printed/Typed Name (Impreso/Mecanografico):** X Cesar Ramirez **Signature (Firma): X** X Cesar Ramirez **Date:** 12-06-2024 10:10 AM		
DISPOSAL FACILITY	Lea Land, LLC	**Mile Marker 64, U.S. Hwy 62/180, 30 Miles East Of Carlsbad, NM**	**(575) 887-4048**
	Permit No: NM-1-0035-New Mexico	**Comments:**	
	Disposal Facility's Certification: **I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.**		
	Authorized Signature: Sandra L Avila	**Unit No:** IIB	**Date** 12-06-2024 **Time** 10:10 AM

LEA LAND LLC

LEA LAND, LLC SURFACE WASTE LANDFILL

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

NON-HAZARDOUS WASTE MANIFEST	No. 211457	Trailer No. L R 03

GENERATOR

Company Name: Harvard Petroleum Phone: (575) 623-1581	Address: 200 East 2nd St. Roswell, NM 88201	Disposal Date: 12-06-2024 10:07 AM

Name Or Description Of Waste Shipped:

[X] RCRA Exempt [ ] RCRA Non-Exempt

Weight (lbs): 39980

Lease/Job Name: TOMCAT 16 STATE 3

Generator's Representative: Jeff Harvard

TRANSPORTER

Name: Dupree

Emergency Contact: Shon

Emergency Contact Phone: (432) 582-2959

Transporter: Acknowledgment of Delivery of Material

Printed/Typed Name (Impreso/Mecanografico): Luis Reyes

Signature (Firma): X Luis Reyes **Date:** 12-06-2024 10:07 AM

DISPOSAL FACILITY

Lea Land, LLC	Mile Marker 64, U.S. Hwy 62/180, 30 Miles East Of Carlsbad, NM	(575) 887-4048
Permit No: NM-1-0035-New Mexico	**Comments:**	

Disposal Facility's Certification:
I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.

Authorized Signature: Sandra L Avila	Unit No: IIB	Date 12-06-2024	Time 10:07 AM

LEA LAND
LLC

LEA LAND, LLC SURFACE WASTE LANDFILL

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

NON-HAZARDOUS WASTE MANIFEST	No. 211496	Trailer No. MATEO-3926

GENERATOR

Company Name: Harvard Petroleum Phone: (575) 623-1581	Address: 200 East 2nd St. Roswel , NM 88201	Disposal Date: 12-09-2024 11:18 AM
Name Or Description Of Waste Shipped: [X] RCRA Exempt [ ] RCRA Non-Exempt		
Weight (lbs): 39900 , 40120, 40180,		
Lease/Job Name: TOM CAT 16 STATE 3		
Generator's Representative: Luis Wescom		

TRANSPORTER

Name: Dupree Emergency Contact: Shon Emergency Contact Phone: (432) 582-2959	
Transporter: Acknowledgment of Delivery of Material Printed/Typed Name (Impreso/Mecanografico): X Cesar Ramirez Signature (Firma): X Cesar Ramirez.	Date: 12-09-2024 11:18 AM

DISPOSAL FACILITY

Lea Land, LLC	Mile Marker 64, U.S. Hwy 62/180, 30 Miles East Of Carlsbad, NM	(575) 887-4048
Permit No: NM-1-0035-New Mexico	Comments:	
Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.		

Authorized Signature: Sandra Lewis	Unit No: IIB	Date 12-09-2024	Time 11:18 AM

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

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St Francis Dr.
Santa Fe, NM 87505

Form C-138
Revised August 1, 2011

*Surface Waste Management Facility Operator and Generator shall maintain and make this documentation available for Division inspection.

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

Generator Name and Address: Harvard / Comm Engineering — **CODE** — **AFE/PO** C.Card

Originating Site: Tomcat / Le State — **Well #** 003 — **Rig name and #** N/A

Location of Material (Street Address, City, State or ULSTR): Lea Co, NM — **API:** 30 025- 34809

Source and Description of Waste. Vac Box Trailer Hydro Vac Frac Tank Vac Truck End Dump Roll Off **Belly Dump** Dump Truck

Contaminated Soil

Estimated Volume _____ yd³ / bbls Known Volume (to be entered by the operator at the end of the haul) 19 (yd³) / bbls

GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

I, Ryan Gleason, representative or authorized agent for _____ do hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)

☐ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. *Operator Use Only: Waste Acceptance Frequency* ☐ *Monthly* ☐ *Weekly* ☐ *Per Load*

☐ RCRA Non-Exempt: Oil field waste which is non-hazardous but does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description in Box 4)

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

I, _____, representative for _____ _____ do hereby certify that representative samples of the oil field waste have been subjected to paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.

Transporter: EL Primo — Oscar Morales

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: Northern Delaware Basin Landfill / Permit NM1-63

Ticket # : 316538

Address of Facility: 2029 W NM Hwy 128, Jal, NM 88252

Method of Treatment and/or Disposal:
☐ Evaporation ☐ Injection ☐ Treating Plant ☐ Landfarm **X** Landfill ☐ Other

Truck #: 01

Waste Acceptance Status:

☐ **APPROVED** ☐ **DENIED** (Must Be Maintained As Permanent Record)

PRINT NAME: Amy Montanez TITLE: Scalehouse Ticket Operator DATE: 4-3-25

SIGNATURE: Amy Montanez TELEPHONE NO.: _____

Surface Waste Management Facility Authorized Agent

OWL Landfill Services, LLC
DBA: Northern Delaware Basin Landfill
3889 Maple Ave. Suite 300
Dallas, TX 75219
505.231.1212
ar@ndblandfill.com

COMPANY MAN: Ryan Gleason Env. Specialist (Authorized Agent's Printed Name and Title)
SIGNATURE:
COMPANY MAN EMAIL: rlgleason@commerginenergy.com
COMPANY MAN PHONE: 405.209.6859

MANIFEST # 0389703

Part 1 - Generator

COMPANY NAME: Harvard Petroleum
DATE: 4/03/2025
LEASE: Tomcat 16 State #003
PHONE: 405-209-6859
AFE #: N/A
API: 30-025-34809
RIG NAME: N/A
WELL #: 003
STATE & COUNTY ORIGIN: Lea County New Mexico

QUANTITY: ~~20~~ 19 ☐ BBLS ☑ YARDS

Waste Description (check only one box)	☑ RCRA Exempt	☐ RCRA Non-Exempt

☐ Water Based Cuttings (DRY)	☐ Water Based Cuttings (WET)	☑ Contaminated Soil	☐ Produced Sands
☐ Oil Based Cuttings (DRY)	☐ Oil Based Cuttings (WET)	☐ Injectable Fluids	☐ Non-Injectable Fluids
☐ Oil Base Mud	☐ Water Base Mud	☐ Muds w/Cement	☐ Tank Bottoms
☐ Rig Trash	☐ Pit Liners		
☐ Other:		Authorize Washout?	☐ Yes ☐ No

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is (Check the appropriate classification)

☑ RCRA EXEMPT: Oilfield wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (NDBL Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT: Oilfield waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ SDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide Description Below)

☐ EMERGENCY NON-OILFIELD: Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of that waste must accompany this form)

(Print) Authorized Agent's Name: Ryan Gleason Date: 4/03/2025 Signature:

Part 2 - Transporter

TO BE COMPLETED BY THE TRANSPORTER WHILE THE GENERATOR IS PRESENT

COMPANY NAME: El primo trucking YARD #: 20 WHP #: TRUCK #: 01
ADDRESS: po Box 2912 TICKET #: ROLL OFF BIN#: TRAILER #:
DATE RECEIVED: 04-03-25 TIME RECEIVED: ☐ AM ☐ PM DISPATCHER NAME: DISPATCHER PHONE #:

The following statement must be signed by the truck driver prior to unloading at disposal facility:
"I CERTIFY THAT NO OTHER MATERIAL HAS BEEN PLACED IN THIS VESSEL SINCE LOADING OF MATERIAL DESCRIBED IN PART 1 ABOVE."

DRIVER: Oscar morales (Driver's Name Printed) DRIVER'S SIGNATURE: Oscar morales

I, (TRANSPORTER), CERTIFY THAT THE INFORMATION GIVEN ON THIS MANIFEST IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE

Part 3 - Disposal Facility

TO BE COMPLETED BY OWL LANDFILL EMPLOYEES

FACILITY RECEIVED AT (Check One):
☐ Northern Delaware Basin Landfill
2029 W. NM Highway 128 | Jal, New Mexico 88252

DATE: 4-3-25 TIME IN: 1:03 AM / PM
TIME OUT: AM / PM

WASHOUT BY:
WASHOUT: TIME IN: TIME OUT:

ACCEPTANCE TESTING: PAINT FILTER: PASS FAIL N/A
TCLP: PASS FAIL N/A
TOX: PASS FAIL N/A

NORM TESTING: P (Less than 50 MCR)

Shake Out:

	1	2	3
H_2O	N/A		
S			

316538

Gallon Test:

SERVICE NOTES:
This is to certify that: (Employee Printed Name) has received the above indicated waste, waste has passed all acceptances testing of this facility and the waste has been disposed of in an authorized manner at a permitted site.

EMPLOYEE SIGNATURE:

White Copy: Disposal Facility Yellow: Transporter Pink: Generator

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

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-138
Revised August 1, 2011

*Surface Waste Management Facility Operator and Generator shall maintain and make this documentation available for Division inspection.

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

Generator Name and Address: CODE **AFE/PO**

Harvard / Comm Engineering CCard

Originating Site: **Well #** **Rig name and #**

Tomcat 16 State 003 N/A

Location of Material (Street Address, City, State or ULSTR): **API:**

Lea Co, NM 30-025-34809

Source and Description of Waste. Vac Box Trailer Hydro Vac Frac Tank Vac Truck End Dump Roll Off Belly Dump Dump Truck

Contaminated Soil

Estimated Volume _____ yd³ / bbls Known Volume (to be entered by the operator at the end of the haul) 210 yd³ / bbls

GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

I, Ryan Gleason, representative or authorized agent for _____ do hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)

☐ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. *Operator Use Only: Waste Acceptance Frequency* ☐ *Monthly* ☐ *Weekly* ☐ *Per Load*

☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description in Box 4)

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

I, _____, representative for _____ _____ do hereby certify that representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.

Transporter:

EL Primo Oscar Morales

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: Northern Delaware Basin Landfill / Permit NM1-63

Ticket # : 316641

Address of Facility: 2029 W NM Hwy 128, Jal, NM 88252

Truck #:

Method of Treatment and/or Disposal:
☐ Evaporation ☐ Injection ☐ Treating Plant ☐ Landfarm **X** Landfill ☐ Other

Waste Acceptance Status:

☐ **APPROVED** ☐ **DENIED** (Must Be Maintained As Permanent Record)

PRINT NAME: Amy Montanez TITLE: Scalehouse Ticket Operator DATE: 4-3-25

SIGNATURE: Amy Montanez TELEPHONE NO.: _____

Surface Waste Management Facility Authorized Agent

OWL Landfill Services, LLC
DBA: Northern Delaware Basin Landfill
3889 Maple Ave. Suite 300
Dallas, TX 75219
505.231.1212
ar@ndblandfill.com

COMPANY MAN: Ryan Gleason Env. Specialist (Authorized Agent's Printed Name and Title)
SIGNATURE:
COMPANY MAN EMAIL: rgleason@commenginecorp.com
COMPANY MAN PHONE: 405.209.6859

MANIFEST # 0389706

Part 1 - Generator

COMPANY NAME: Harvard Petroleum
DATE: 4/03/2025
LEASE: TomCat 16 State #003
PHONE: 405.209.6859
AFE #: N/A
API: 30-025-34809
RIG NAME: N/A
WELL #: 003
STATE & COUNTY ORIGIN: Lea County New Mexico

QUANTITY: 20 ☐ BBLS ☑ YARDS

Waste Description (check only one box) ☑ RCRA Exempt ☐ RCRA Non-Exempt

- ☐ Water Based Cuttings (DRY)
- ☐ Water Based Cuttings (WET)
- ☑ Contaminated Soil
- ☐ Produced Sands
- ☐ Oil Based Cuttings (DRY)
- ☐ Oil Based Cuttings (WET)
- ☐ Injectable Fluids
- ☐ Non-Injectable Fluids
- ☐ Oil Base Mud
- ☐ Water Base Mud
- ☐ Muds w/Cement
- ☐ Tank Bottoms
- ☐ Rig Trash
- ☐ Pit Liners
- ☐ Other:

Authorize Washout? ☐ Yes ☑ No

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is (Check the appropriate classification)

☑ RCRA EXEMPT: Oilfield wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (NDBL Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT: Oilfield waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ SDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide Description Below)

☐ EMERGENCY NON-OILFIELD: Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of that waste must accompany this form)

(Print) Authorized Agent's Name Ryan Gleason Date 4/03/2025 Signature

Part 2 - Transporter

TO BE COMPLETED BY THE TRANSPORTER WHILE THE GENERATOR IS PRESENT

COMPANY NAME: El primo trucking LLC YARD #: 20 WHP #: TRUCK #: 01
ADDRESS: po Box 2912 Hobbs TICKET #: ROLL OFF BIN#: TRAILER #:
DATE RECEIVED: TIME RECEIVED: ☐ AM ☐ PM DISPATCHER NAME: DISPATCHER PHONE #:

The following statement must be signed by the truck driver prior to unloading at disposal facility:
"I CERTIFY THAT NO OTHER MATERIAL HAS BEEN PLACED IN THIS VESSEL SINCE LOADING OF MATERIAL DESCRIBED IN PART 1 ABOVE."

DRIVER: Oscar Morales (Driver's Name Printed) DRIVER'S SIGNATURE:

I, (TRANSPORTER), CERTIFY THAT THE INFORMATION GIVEN ON THIS MANIFEST IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE

Part 3 - Disposal Facility

TO BE COMPLETED BY OWL LANDFILL EMPLOYEES

FACILITY RECEIVED AT (Check One):
☐ Northern Delaware Basin Landfill
2029 W. NM Highway 128 | Jal, New Mexico 88252

DATE: 4-3-25 TIME IN: 5:58 AM PM
TIME OUT: AM / PM

WASHOUT BY:
WASHOUT: TIME IN: TIME OUT:

ACCEPTANCE TESTING: PAINT FILTER: PASS FAIL ~~N/A~~
TCLP: PASS FAIL ~~N/A~~
TOX: PASS FAIL ~~N/A~~

NORM TESTING: 0 (Less than 50 MCR)

Shake Out:

	1	2	3
H_2O	N/A		
S			

516671

Gallon Test:

SERVICE NOTES:
This is to certify that: (Employee (Printed Name)) *has received the above indicated waste, waste has passed all acceptances testing of this facility and the waste has been disposed of in an authorized manner at a permitted site.*
EMPLOYEE SIGNATURE:

White Copy: Disposal Facility Yellow: Transporter Pink: Generator

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

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St Francis Dr.
Santa Fe, NM 87505

Form C-138
Revised August 1, 2011

*Surface Waste Management Facility Operator and Generator shall maintain and make this documentation available for Division inspection.

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

Generator Name and Address: | **CODE** | **AFE/PO**

Howard J Comm Engineering | C Card

Originating Site: | **Well #** | **Rig name and #**

Tomcat 16 State | 003 | N/A

Location of Material (Street Address, City, State or ULSTR): | **API:**

Lea Co, NM | 30-025-34804

Source and Description of Waste. Vac Box Trailer Hydro Vac Frac Tank Vac Truck End Dump Roll Off Belly Dump Dump Truck

Contaminated Soil

Estimated Volume _____ yd³ / bbls Known Volume (to be entered by the operator at the end of the haul) 18 (yd³) / bbls

GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

I, Ryan G _____, representative or authorized agent for _____ do hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)

☐ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. *Operator Use Only: Waste Acceptance Frequency* ☐ *Monthly* ☐ *Weekly* ☐ *Per Load*

☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description in Box 4)

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

I, _____, representative for _____ _____ do hereby certify that representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.

Transporter:

El Primo | Oscar Morales

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: Northern Delaware Basin Landfill / Permit NM1-63

Address of Facility: 2029 W NM Hwy 128, Jal, NM 88252

Ticket # : 316584

Method of Treatment and/or Disposal:
☐ Evaporation ☐ Injection ☐ Treating Plant ☐ Landfarm X Landfill ☐ Other

Truck #: 21

Waste Acceptance Status:

☐ **APPROVED** ☐ **DENIED** (Must Be Maintained As Permanent Record)

PRINT NAME: Amy Montanez TITLE: Scalehouse Ticket Operator DATE: 4-3-25

SIGNATURE: Amy Montanez TELEPHONE NO.: _____

Surface Waste Management Facility Authorized Agent

OWL Landfill Services, LLC
DBA: Northern Delaware Basin Landfill
3889 Maple Ave. Suite 300
Dallas, TX 75219
505.231.1212
ar@ndblandfill.com

COMPANY MAN: Ryan Gleason Env. Specialist (Authorized Agent's Printed Name and Title)
SIGNATURE:
COMPANY MAN EMAIL: rgleason@comminengineering.com
COMPANY MAN PHONE: 405.209.6859

MANIFEST # 0389705

Part 1 - Generator

COMPANY NAME: Harvard Petroleum
DATE: 4/03/2025
LEASE: Tomcat 16 State #003
PHONE: 405.209.6859
AFE #: N/A
API: 30-025-34809
RIG NAME: N/A
WELL #: 003
STATE & COUNTY ORIGIN: Lea County New Mexico

QUANTITY: ~~20~~ LB ☐ BBLS ☑ YARDS

Waste Description (check only one box) ☑ RCRA Exempt ☐ RCRA Non-Exempt

☐ Water Based Cuttings (DRY)	☐ Water Based Cuttings (WET)	☑ Contaminated Soil	☐ Produced Sands
☐ Oil Based Cuttings (DRY)	☐ Oil Based Cuttings (WET)	☐ Injectable Fluids	☐ Non-Injectable Fluids
☐ Oil Base Mud	☐ Water Base Mud	☐ Muds w/Cement	☐ Tank Bottoms
☐ Rig Trash	☐ Pit Liners		
☐ Other:		Authorize Washout?	☐ Yes ☑ No

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is (Check the appropriate classification)

☑ RCRA EXEMPT: Oilfield wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (NDBL Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT: Oilfield waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ SDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide Description Below)

☐ EMERGENCY NON-OILFIELD: Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of that waste must accompany this form)

(Print) Authorized Agent's Name Ryan Gleason Date 4/03/2025 Signature

Part 2 - Transporter

TO BE COMPLETED BY THE TRANSPORTER WHILE THE GENERATOR IS PRESENT

COMPANY NAME: El Primo Truckins LLC YARD #: 20 WHP #: TRUCK #: 21
ADDRESS: PO Box 2912 TICKET #: ROLL OFF BIN#: TRAILER #:
DATE RECEIVED: 04-03-25 TIME RECEIVED: 1:25 pm ☐ AM ☐ PM DISPATCHER NAME: DISPATCHER PHONE #:

The following statement must be signed by the truck driver prior to unloading at disposal facility:
"I CERTIFY THAT NO OTHER MATERIAL HAS BEEN PLACED IN THIS VESSEL SINCE LOADING OF MATERIAL DESCRIBED IN PART 1 ABOVE."

DRIVER: Oscar Morales (Driver's Name Printed) DRIVER'S SIGNATURE: Oscar Morales

I, (TRANSPORTER), CERTIFY THAT THE INFORMATION GIVEN ON THIS MANIFEST IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE

Part 3 - Disposal Facility

TO BE COMPLETED BY OWL LANDFILL EMPLOYEES

FACILITY RECEIVED AT (Check One): DATE: 4-3-25 TIME IN: 3:11 AM / PM TIME OUT: AM / PM

☐ Northern Delaware Basin Landfill
2029 W. NM Highway 128 | Jal, New Mexico 88252

WASHOUT BY:
WASHOUT: TIME IN: TIME OUT:

ACCEPTANCE TESTING: PAINT FILTER: ~~PASS~~ FAIL N/A
TCLP: PASS FAIL ~~N/A~~
TOX: PASS FAIL ~~N/A~~

NORM TESTING: P (Less than 50 MCR)

Shake Out:	1	2	3
H_2O		N/A	
S			

316584

Gallon Test:

SERVICE NOTES:
This is to certify that: Employee (Printed Name) has received the above indicated waste, waste has passed all acceptances testing of this facility and the waste has been disposed of in an authorized manner at a permitted site.

EMPLOYEE SIGNATURE:

White Copy: Disposal Facility Yellow: Transporter Pink: Generator

OWL Landfill Services, LLC
Northern Delaware Basin Landfill
3889 Maple Ave. Suite 300
Dallas, TX 75219
505.231.1212
ar@ndblandfill.com

COMPANY MAN: Ryan Gleason Env. Specialist
(Authorized Agent's Printed Name and Title)
SIGNATURE:
COMPANY MAN EMAIL: rgleason@[illegible].com
COMPANY MAN PHONE: 405.209.6859

MANIFEST # 0389704

Part 1 - Generator

COMPANY NAME: Harvard Petroleum
LEASE: Tomcat 16 State #003
AFE #: N/A
API: 30-025-34809
RIG NAME: N/A
WELL #: 003
STATE & COUNTY ORIGIN: Lea County New Mexico

DATE: 4/03/2025
PHONE: 405.209.6859

QUANTITY: 20 ☐ BBLS ☑ YARDS

Waste Description (check only one box)	☑ RCRA Exempt	☐ RCRA Non-Exempt
☐ Water Based Cuttings (DRY)	☐ Water Based Cuttings (WET)	☐ Contaminated Soil	☐ Produced Sands
☐ Oil Based Cuttings (DRY)	☐ Oil Based Cuttings (WET)	☐ Injectable Fluids	☐ Non-Injectable Fluids
☐ Oil Base Mud	☐ Water Base Mud	☐ Muds w/Cement	☐ Tank Bottoms
☐ Rig Trash	☐ Pit Liners		
☐ Other:		Authorize Washout?	☐ Yes ☑ No

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is (Check the appropriate classification)

☑ RCRA EXEMPT: Oilfield wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (NDBL Accepts certifications on a per load basis only)

☐ RCRA NON-EXEMPT: Oilfield waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)

☐ SDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide Description Below)

☐ EMERGENCY NON-OILFIELD: Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of that waste must accompany this form)

(Print) Authorized Agent's Name: Ryan Gleason Date: 4/03/2025 Signature:

Part 2 - Transporter

TO BE COMPLETED BY THE TRANSPORTER WHILE THE GENERATOR IS PRESENT

COMPANY NAME: Elpino trucking LLC
YARD #: 20 WHP #: TRUCK #: 01
ADDRESS: Hobbs NM 88241
TICKET #: ROLL OFF BIN#: TRAILER #:
DATE: 04-03-25 TIME RECEIVED: 8:AM ☐ AM ☐ PM
DISPATCHER NAME: DISPATCHER PHONE #:

The following statement must be signed by the truck driver prior to unloading at disposal facility:
"I CERTIFY THAT NO OTHER MATERIAL HAS BEEN PLACED IN THIS VESSEL SINCE LOADING OF MATERIAL DESCRIBED IN PART 1 ABOVE."

DRIVER: Oscar A Morales (Driver's Name Printed) DRIVER'S SIGNATURE: Oscar A Morales

I, (TRANSPORTER), CERTIFY THAT THE INFORMATION GIVEN ON THIS MANIFEST IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE

Disposal Facility

TO BE COMPLETED BY OWL LANDFILL EMPLOYEES

FACILITY RECEIVED AT (Check One): DATE: 4-3-25 TIME IN: 10:57 AM / PM TIME OUT: AM / PM

☐ Northern Delaware Basin Landfill
2029 W. NM Highway 128 | Jal, New Mexico 88252

WASHOUT BY:
WASHOUT: TIME IN: TIME OUT:

ACCEPTANCE TESTING: PAINT FILTER: ~~PASS~~ FAIL N/A
TCLP: PASS FAIL ~~N/A~~
TOX: PASS FAIL ~~N/A~~

NORM TESTING: 0 (Less than 50 MCR)

Shake Out:	1	2	3
H_2O	N/A		
S			

316503

Gallon Test:

SERVICE NOTES:
This is to certify that: Employee (Printed Name) has received the above indicated waste, waste has passed all acceptances testing of this facility and the waste has been disposed of in an authorized manner at a permitted site.

EMPLOYEE SIGNATURE:

White Copy: Disposal Facility Yellow: Transporter Pink: Generator

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

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS

Action 461788

QUESTIONS

Operator: HARVARD PETROLEUM COMPANY, LLC P.O. Box 936 Roswell, NM 88202	OGRID: 10155
	Action Number: 461788
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2434026328**
Incident Name	**NAPP2434026328 TOMCAT 16 STATE #003 @ 30-025-34809**
Incident Type	**Other**
Incident Status	**Remediation Closure Report Received**
Incident Well	**[30-025-34809] TOMCAT 16 STATE #003**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	TOMCAT 16 STATE #003
Date Release Discovered	12/04/2024
Surface Owner	State

Incident Details	
Please answer all the questions in this group.	
Incident Type	Other
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: Vandalism | Unknown | Crude Oil | Released: 50 BBL | Recovered: 49 BBL | Lost: 1 BBL.
Produced Water Released (bbls) Details	*Not answered.*
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	*Not answered.*
Natural Gas Vented (Mcf) Details	*Not answered.*
Natural Gas Flared (Mcf) Details	*Not answered.*
Other Released Details	*Not answered.*
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	*Not answered.*

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

QUESTIONS (continued)

Operator: HARVARD PETROLEUM COMPANY, LLC P.O. Box 936 Roswell, NM 88202	OGRID: 10155
	Action Number: 461788
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

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	**Yes**
Reasons why this would be considered a submission for a notification of a major release	**From paragraph A. "Major release" determine using:** **(1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.**

With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.

Initial Response	
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.	
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	*Not answered.*

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

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

I hereby agree and sign off to the above statement	Name: Roni Kidd Title: Business Manager Email: rkidd@buckhornproduction.com Date: 12/05/2024

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

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS (continued)

Operator: HARVARD PETROLEUM COMPANY, LLC P.O. Box 936 Roswell, NM 88202	OGRID: 10155
	Action Number: 461788
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 51 and 75 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
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	Greater than 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	Between 1 and 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	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Between 1 and 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	46.5
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	728
GRO+DRO (EPA SW-846 Method 8015M)	728
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
On what estimated date will the remediation commence	12/05/2024
On what date will (or did) the final sampling or liner inspection occur	04/04/2025
On what date will (or was) the remediation complete(d)	04/03/2025
What is the estimated surface area (in square feet) that will be reclaimed	2772.5
What is the estimated volume (in cubic yards) that will be reclaimed	206.3
What is the estimated surface area (in square feet) that will be remediated	2772.5
What is the estimated volume (in cubic yards) that will be remediated	206.3
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.	
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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

General Information
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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 (continued)

Operator: HARVARD PETROLEUM COMPANY, LLC P.O. Box 936 Roswell, NM 88202	OGRID: 10155
	Action Number: 461788
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and **off-site** disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for **off-site** disposal	OWL LANDFILL JAL [fJEG1635837366]
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	*Not answered.*
OR is the **off-site** disposal site, to be used, an NMED facility	*Not answered.*
(Ex Situ) Excavation and **on-site** remediation (i.e. On-Site Land Farms)	*Not answered.*
(In Situ) Soil Vapor Extraction	*Not answered.*
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	*Not answered.*
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	*Not answered.*
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	*Not answered.*
Ground Water Abatement pursuant to 19.15.30 NMAC	*Not answered.*
OTHER (Non-listed remedial process)	*Not answered.*
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Roni Kidd Title: Business Manager Email: rkidd@buckhornproduction.com Date: 05/13/2025
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS (continued)

Operator: HARVARD PETROLEUM COMPANY, LLC P.O. Box 936 Roswell, NM 88202	OGRID: 10155
	Action Number: 461788
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

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 (continued)

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	Action Number: 461788
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	**447856**
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	**03/04/2025**
What was the (estimated) number of samples that were to be gathered	**21**
What was the sampling surface area in square feet	**2373**

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	Yes
Have the lateral and vertical extents of contamination been fully delineated	**Yes**
Was this release entirely contained within a lined containment area	**No**
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	2373
What was the total volume (cubic yards) remediated	209.8
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	2373
What was the total volume (in cubic yards) reclaimed	209.8
Summarize any additional remediation activities not included by answers (above)	The date on the sampling notice submitted for confirmation sampling was entered incorrectly. 4/04/2025 was the date that should have been entered, not 3/04/2025.

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

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

I hereby agree and sign off to the above statement	Name: Roni Kidd Title: Business Manager Email: rkidd@buckhornproduction.com Date: 05/13/2025

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QUESTIONS (continued)

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	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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CONDITIONS

Operator: HARVARD PETROLEUM COMPANY, LLC P.O. Box 936 Roswell, NM 88202	OGRID: 10155
	Action Number: 461788
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
scwells	Remediation closure approved. Note, sample notification was submitted on 4/1/25 for 3/4/25. OCD notes that you said this was entered incorrectly. Because an OCD representative may show up in the future to witness sampling, please ensure future sampling notifications are submitted for the correct dates and times.	5/27/2025