



Incident Number: nAPP2519257048

Incident Closure

North Indian Flats 24 Fed 010

Section 24, Township 21 South, Range 28 East

API: 30-015-38196

Latitude & Longitude: 32.464421, -104.042399

County: Eddy County

Vertex File Number: 25A-03772

Prepared for:

ExxonMobile Upstream Company

Prepared by:

Vertex Resource Services Inc.

Date:

September 2025

ExxonMobil Upstream Company
North Indian Flats 24 Fed 010

Incident Closure
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North Indian Flats 24 Fed 010

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Prepared for:

ExxonMobil Upstream Company

3104 E. Greene Street

Carlsbad, New Mexico 88220

New Mexico Oil Conservation Division

508 West Texas Avenue

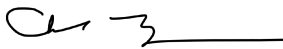
Artesia, New Mexico 88210

Prepared by:

Vertex Resource Services Inc.

3101 Boyd Drive

Carlsbad, New Mexico 88220



Chad Hensley, B. Sc. GCNR
SENIOR PROJECT MANAGER, REPORT REVIEW

September 9, 2025

Date

ExxonMobil Upstream Company
North Indian Flats 24 Fed 010

Incident Closure
September 2025

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1.0 Introduction

ExxonMobil Upstream Company (Exxon) retained Vertex Resource Services Inc. (Vertex) to conduct a closure request for a crude oil release that occurred on July 7, 2025, at North Indian Flats 24 Fed 010, API 30-015-38196 (hereafter referred to as the “site”). Exxon submitted an initial C-141 Release Notification to New Mexico Oil Conservation Division (NMOCD) on July 11, 2025. Incident ID number NAPP2519257048 was assigned to this incident.

This report provides a description of the release assessment and remediation activities associated with the site. The information presented demonstrates that closure criteria established in Table I of 19.15.29.12 of the *New Mexico Administrative Code* (NMAC; New Mexico Oil Conservation Division, 2018) related to NMOCD has been met and all applicable regulations are being followed. This document is intended to serve as a final report to obtain approval from NMOCD for closure of this release, with the understanding that restoration of the release site will be completed at such time as all oil and gas activities are terminated and the site is reclaimed as per NMAC 19.15.29.13.

2.0 Incident Description

The release occurred on July 7, 2025, due to valve failure. The incident was reported on July 11, 2025. It involved the release of approximately 3 barrels (bbl.) of crude oil on the pad site and 0 bbl. of free fluid was removed during initial clean-up. Additional details relevant to the release are presented in the C-141 Report.

3.0 Site Characteristics

The site is located approximately 11.25 miles northeast of Carlsbad, New Mexico. The legal location for the site is Section 24, Township 21 South and Range 28 East in Eddy County, New Mexico. The release area is located on Bureau of Land Management property. An aerial photograph and site schematic are presented on Figure 1.

The location is typical of oil and gas exploration and production sites in the Permian Basin and is currently used for oil and gas production and storage. The following sections specifically describe the release area on and in proximity to the constructed pad (Figure 1).

The Geological Map of New Mexico (New Mexico Bureau of Geology and Mineral Resources, 2025) indicates the site’s surface geology primarily comprises Qep – Quaternary eolian and piedmont (Holocene to middle Pleistocene) and the soil at the site is characterized as loamy (United States Department of Agriculture, Natural Resources Conservation Service, 2025). The karst geology potential for the site is medium (United States Department of the Interior, Bureau of Land Management, 2018). The surrounding landscape is associated with plains and piedmonts with elevations ranging between 2,450 to 5,000 feet. The climate is semiarid with average annual precipitation ranging between 8 to 15 inches. Predominant soil textures around the site are well-drained fine sandy loams, sandy loam and sandy clay loams with low runoff potential (United States Department of Agriculture, Natural Resources Conservation Service, 2025). Using information from the United States Department of Agriculture, the dominant vegetation was determined to be black grama and blue grama Grasses with shrubs and half-shrubs dominate the historic plant community (United States Department of Agriculture, Natural Resources Conservation Service, 2025). Limited to no vegetation is allowed to grow on the compacted production pad, right-of-way and access road.

4.0 Closure Criteria Determination

The nearest active well to the site is USGS 322850104014201, located approximately 1.35 miles to the northeast of the location. There is no surface water present at the site (United States Geological Survey, 2025). USGS data shows the borehole recorded a depth to groundwater of 135 ft below ground surface (bgs) on February 23, 2021. Information pertaining to the depth to ground water determination is included in Appendix A.

The nearest significant watercourse, as defined in Subsection P of 19.15.17.7 NMAC, is an intermittent stream located approximately 0.69 miles southeast of the site (United States Fish and Wildlife Service, 2025). At the site, there are no continuously flowing watercourses or significant watercourses, lakebeds, sinkholes, playa lakes or other critical water or community features as outlined in Paragraph (4) of Subsection C of 19.15.29.12 NMAC

ExxonMobil Upstream Company
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Table 1. Closure Criteria Determination			
Site Name: North Indian Flats 24 Fed 010			
Spill Coordinates: 32.464421,-104.042399		X: 589993.43	Y: 3592318.85
Site Specific Conditions		Value	Unit
1	Depth to Groundwater (nearest reference)	135	feet
	Distance between release and nearest DTGW reference	7,102	feet
		1.35	miles
Date of nearest DTGW reference measurement		February 24, 2021	
2	Within 300 feet of any continuously flowing watercourse or any other significant watercourse	3,651	feet
3	Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark)	35,187	feet
4	Within 300 feet from an occupied residence, school, hospital, institution or church	39,149	feet
5	i) Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or	75,151	feet
	ii) Within 1000 feet of any fresh water well or spring	75,151	feet
6	Within incorporated municipal boundaries or within a defined municipal fresh water field covered under a municipal ordinance adopted pursuant to Section 3-27-3 NMSA 1978 as amended, unless the municipality specifically approves	No	(Y/N)
7	Within 300 feet of a wetland	5,241	feet
8	Within the area overlying a subsurface mine	No	(Y/N)
	Distance between release and nearest registered mine	31,980	feet
9	Within an unstable area (Karst Map)	Medium	Critical High Medium Low
	Distance between release and nearest unstable area	18,537	feet
10	Within a 100-year Floodplain	500	year
	Distance between release and nearest FEMA Zone A (100-year Floodplain)	5,737	feet
11	Soil Type	Berino-Dune	
12	Ecological Classification	Loamy	
13	Geology	Qep	
NMAC 19.15.29.12 E (Table 1) Closure Criteria		<50'	<50' 51-100' >100'

The closure criteria for remediation and reclamation of the site were determined to be associated with the strictest constituent concentration limits as presented in Table 2.

Table 2. 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	Limit
< 50 feet	Chloride	600 mg/kg
	TPH (GRO+DRO+MRO)	100 mg/kg
	BTEX	50 mg/kg
	Benzene	10 mg/kg

TDS – total dissolved solids

TPH – total petroleum hydrocarbons, GRO – gas range organics, DRO – diesel range organics, MRO – motor oil range organics

BTEX – benzene, toluene, ethylbenzene and xylenes

5.0 Remedial Actions Taken

An initial site inspection of the release area was completed on July 15, 2025, which identified the area of the release specified in the initial C-141 Report. The impacted area was determined to be approximately 3,796 square feet. Characterization laboratory results are presented in Table 3. The Daily Field Report (DFR) associated with the site inspection is included in Appendix B.

Remediation efforts began on July 29, 2025, and were finalized on August 8, 2025. Vertex personnel supervised the excavation of impacted soils. Soils were removed to a depth of 2 to 6 feet bgs. Impacted soil was transported by a licensed waste hauler and disposed of at an approved waste management facility as stipulated by the Form C-138 Request for Approval to Accept Solid Waste. DFRs documenting various phases of the remediation are presented in Appendix B.

Notification that confirmatory samples were being collected was provided to the NMOCD on August 1, 2025. Confirmatory composite samples were collected from the base and walls of the excavation in 200 square foot increments. A total of 41 samples were collected for laboratory analysis following NMOCD soil sampling procedures. Samples were submitted to Cardinal under chain-of-custody protocols and analyzed for BTEX (EPA Method 8021B), total petroleum hydrocarbons (GRO, DRO, MRO – EPA Method 8015D) and total chlorides (EPA Method 300.0). Confirmation laboratory results are presented in Table 4, and the laboratory data reports are included in Appendix C. All confirmatory samples collected and analyzed were below closure criteria for the site.

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6.0 Closure Request

The release area was fully delineated and remediated by August 22, 2025. Confirmatory samples were analyzed by the laboratory and found to be below allowable concentrations as per the NMAC Closure Criteria for Soils Impacted by a Release location "under 50 feet to groundwater". Based on these findings, Exxon requests that this release be closed.

Should you have any questions or concerns, please do not hesitate to contact Chad Hensley at 575.200.6167 or Chensley@Vertexresource.com.

7.0 References

- Google Inc. (2025). *Google Earth Pro (Version 7.3.3)* [Software]. Retrieved from <https://earth.google.com>
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- United States Geological Survey. (2025). *National Water Information System: Web Interface*. Retrieved from <https://waterdata.usgs.gov/nwis>
- United States Fish and Wildlife Service. (2025). *National Wetland Inventory - Surface Waters and Wetlands*. Retrieved from <https://fwsprimary.wim.usgs.gov/wetlands/apps/wetlands-mapper/>

ExxonMobil Upstream Company
North Indian Flats 24 Fed 010

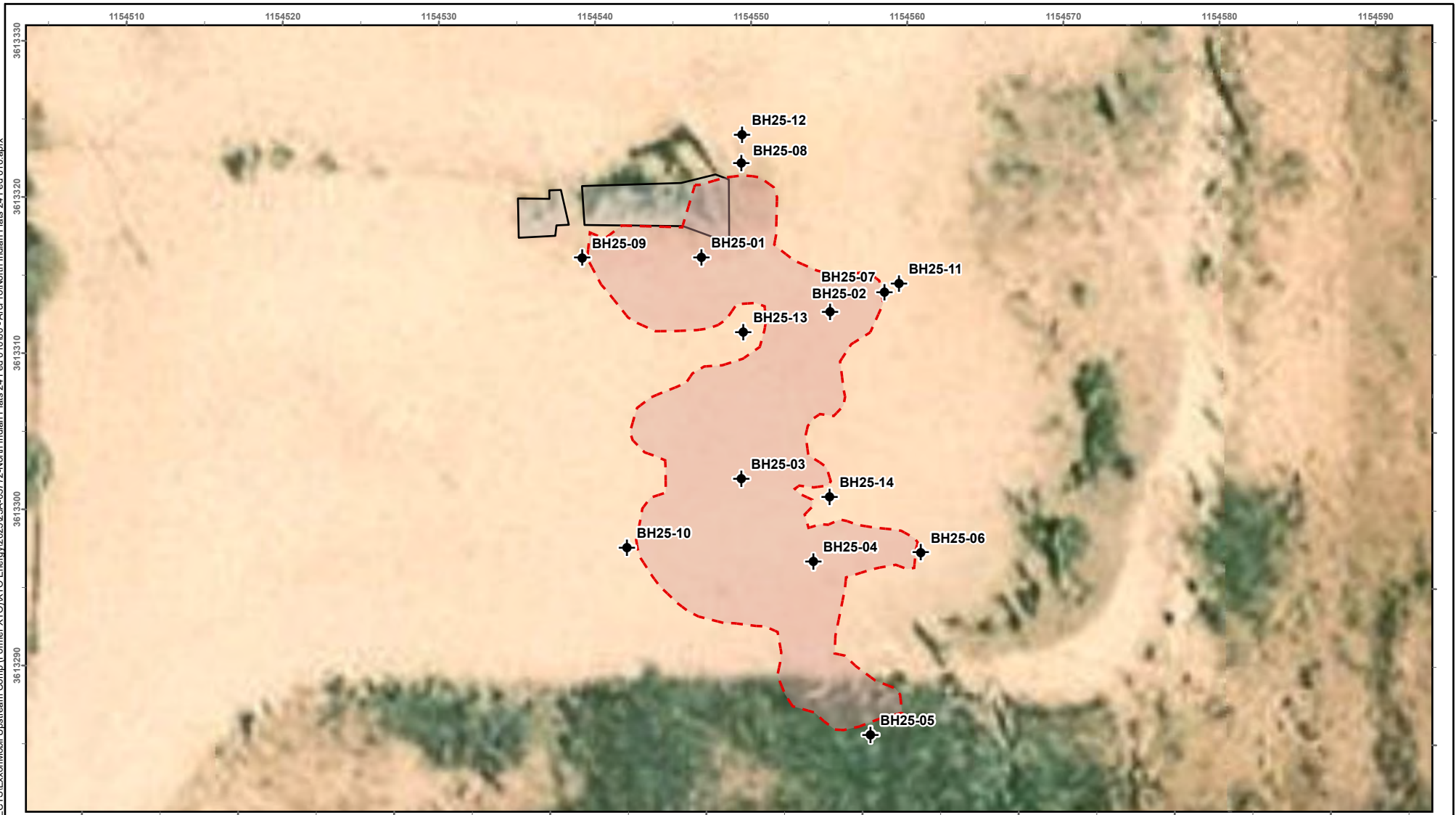
Incident Closure
September 2025

8.0 Limitations

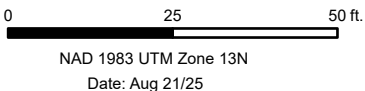
This report has been prepared for the sole benefit of ExxonMobil Upstream Company. This document may not be used by any other person or entity, with the exception of the New Mexico Oil Conservation Division and the Bureau of Land Management, without the express written consent of Vertex Resource Services Inc. (Vertex) and ExxonMobil Upstream Company. 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 professional 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 Vertex based on the data collected during the assessment. Due to the nature of the assessment and the data available, Vertex cannot warrant against undiscovered environmental liabilities. Conclusions and recommendations presented in this report should not be considered legal advice.

FIGURES



◆ Borehole - - - - - Approximate Release Extent (~3,795 sq.ft.) □ Production Equipment



Map Center:
 Lat: 32.464383°N,
 Long: 104.042227°W



**Characterization Sampling Site
 Schematic North Indian Flats 24 Fed 010**

FIGURE:

1

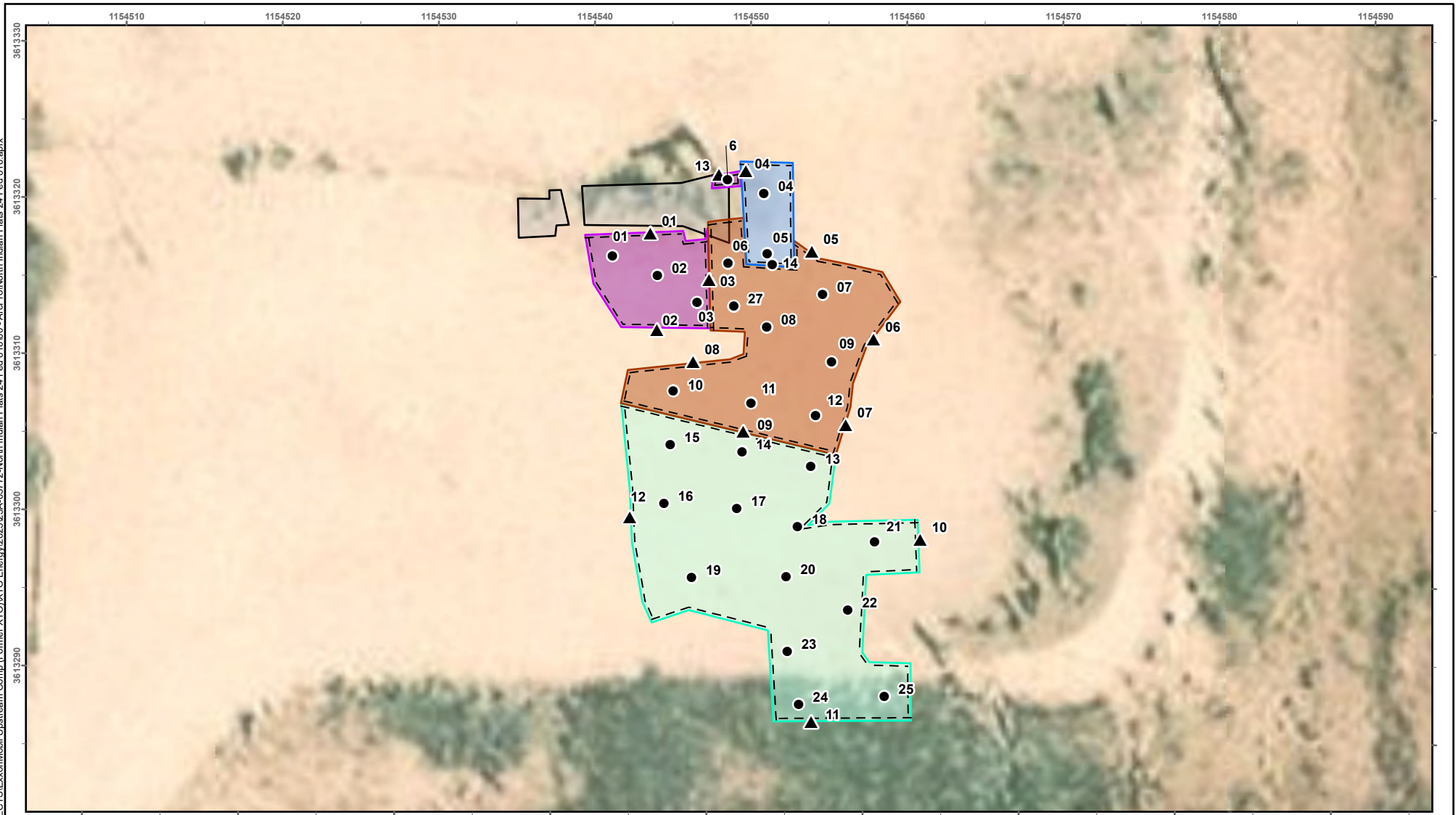


Geospatial data presented in this figure may be derived from external sources and Vertex does not assume any liability for inaccuracies. This figure is intended for reference use only and is not certified for legal, survey, or engineering purposes.

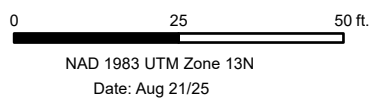
Note: Georeferenced image from Esri, 2024. Site features from GPS by Vertex Professional Services Ltd., 2025.

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Document Path: S:\04_Geomatics\1-Projects\1. US PROJECS\ExxonMobil Upstream Comp (Former XTO)\XTO Energy\2025\25A-08772-North Indian Flats 24 Fed 010.aprx



- Base Sample (Prefixed by "BS25-")
- ▲ Wall Sample (Prefixed by "WS25-")
- ▭ Excavation to 3' bgs (~474 sq.ft. | 108 ft.)
- ▭ Excavation to 4' bgs (~1,444 sq.ft. | 208 ft.)
- ▭ Excavation to 2' bgs (~2,457 sq.ft. | 267 ft.)
- ▭ Excavation to 6' bgs (~227 sq.ft. | 64 ft.)
- ▭ Production Equipment



**Confirmation Sampling Site Schematic
North Indian Flats 24 Fed 010**

FIGURE:
2



Geospatial data presented in this figure may be derived from external sources and Vertex does not assume any liability for inaccuracies. This figure is intended for reference use only and is not certified for legal, survey, or engineering purposes.

Note: Georeferenced image from Esri, 2024. Site features from GPS by Vertex Professional Services Ltd., 2025.

TABLES

Client Name: ExxonMobil Upstream Company
 Site Name: North Indian Flats 24 Fed 010
 NMOCD Tracking #: nAPP2519257048
 Project #: 25A-03772
 Lab Reports: H2554364, H2554365, H2554366

Table 3. Initial Characterization Sample Laboratory Results

Sample Description			Field Screening			Petroleum Hydrocarbons							Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds (PID)	Extractable Organic Compounds (PetroFlag)	Chloride Concentration (ppm)	Volatile		Extractable					Chloride Concentration (mg/kg)
						Benzene (mg/kg)	BTEX (Total) (mg/kg)	Gasoline Range Organics (GRO) (mg/kg)	Diesel Range Organics (DRO) (mg/kg)	Motor Oil Range Organics (MRO) (mg/kg)	(GRO + DRO) (mg/kg)	Total Petroleum Hydrocarbons (TPH) (mg/kg)	
Depth to Groundwater ≤ 50 feet bgs													
BH25-01	0	July 15, 2025	-	-	4,557	-	-	-	-	-	-	-	-
	1.5	July 15, 2025	-	2,000	695	-	-	-	-	-	-	-	-
BH25-02	0	July 15, 2025	-	-	801	-	-	-	-	-	-	-	-
	2	July 15, 2025	-	2,000	330	-	-	-	-	-	-	-	-
	3	July 15, 2025	-	444	320	-	-	-	-	-	-	-	-
	4	July 15, 2025	-	73	285	ND	ND	ND	26	ND	26	26	144
BH25-03	0	July 15, 2025	-	2,000	118	-	-	-	-	-	-	-	-
	1.25	July 15, 2025	-	399	50	-	-	-	-	-	-	-	-
BH25-04	0	July 15, 2025	-	2,000	0	-	-	-	-	-	-	-	-
	2	July 15, 2025	-	37	0	ND	ND	ND	ND	ND	ND	ND	32
BH25-05	0	July 15, 2025	-	42	0	ND	ND	ND	ND	ND	ND	ND	32
	1.25R	July 15, 2025	-	71	0	ND	ND	ND	ND	ND	ND	ND	ND
BH25-06	0	July 17, 2025	-	94	0	ND	ND	ND	ND	ND	ND	ND	16
	2	July 17, 2025	-	27	0	ND	ND	ND	ND	ND	ND	ND	ND
BH25-07	0	July 17, 2025	-	-	1,195	-	-	-	-	-	-	-	-
	1.5	July 17, 2025	-	-	972	-	-	-	-	-	-	-	-
BH25-08	0	July 17, 2025	-	-	636	-	-	-	-	-	-	-	-
	2	July 17, 2025	-	-	854	-	-	-	-	-	-	-	-
BH25-09	0	July 17, 2025	-	55	347	ND	ND	ND	ND	ND	ND	ND	160
	2	July 17, 2025	-	34	46	ND	ND	ND	ND	ND	ND	ND	80
BH25-10	0	July 17, 2025	-	32	46	ND	ND	ND	ND	ND	ND	ND	48
	2	July 17, 2025	-	29	50	ND	ND	ND	ND	ND	ND	ND	48
BH25-11	0	July 17, 2025	-	29	34	ND	ND	ND	ND	ND	ND	ND	32
	1.5R	July 17, 2025	-	36	320	ND	ND	ND	ND	ND	ND	ND	288
BH25-12	0	July 18, 2025	-	33	135	ND	ND	ND	ND	ND	ND	ND	96
	1.5R	July 18, 2025	-	27	271	ND	ND	ND	ND	ND	ND	ND	128
BH25-13	0	July 18, 2025	-	24	167	ND	ND	ND	ND	ND	ND	ND	80
	2	July 18, 2025	-	28	160	ND	ND	ND	ND	ND	ND	ND	112
BH25-14	0	July 18, 2025	-	64	0	ND	ND	ND	ND	ND	ND	ND	32
	2	July 18, 2025	-	35	0	ND	ND	ND	ND	ND	ND	ND	16

"ND" Not Detected at the Reporting Limit

"-" indicates not analyzed/assessed

Bold and grey shaded indicates exceedance outside of NMOCD Closure Criteria (on-pad)



Client Name: ExxonMobil Upstream Company
 Site Name: North Indian Flats 24 Fed 010
 NMOCD Tracking #: nAPP2519257048
 Project #: 25A-03772
 Lab Report(s): H254856, H254960, H255271

Table 4. Confirmation Sample Laboratory Results

Sample Description			Petroleum Hydrocarbons							Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile		Extractable					Chloride Concentration (mg/kg)
			Benzene (mg/kg)	BTEX (Total) (mg/kg)	Gasoline Range Organics (GRO) (mg/kg)	Diesel Range Organics (DRO) (mg/kg)	Motor Oil Range Organics (MRO) (mg/kg)	(GRO + DRO) (mg/kg)	Total Petroleum Hydrocarbons (TPH) (mg/kg)	
BS25-01	3	August 4, 2025	ND	ND	ND	ND	ND	ND	ND	176
BS25-02	3	August 4, 2025	ND	ND	ND	18	ND	18	ND	320
BS25-03	3	August 4, 2025	ND	ND	ND	ND	ND	ND	ND	256
BS25-04	6	August 12, 2025	ND	ND	ND	11	ND	11	11	240
BS25-05	6	August 12, 2025	ND	ND	ND	11	ND	11	11	704
	6	August 22, 2025	ND	ND	ND	30	ND	30	30	448
BS25-06	4	August 4, 2025	ND	ND	ND	14	ND	14	14	608
	4	August 22, 2025	ND	ND	ND	30	ND	30	30	416
BS25-07	4	August 4, 2025	ND	ND	ND	17	ND	17	17	576
BS25-08	4	August 4, 2025	ND	ND	ND	16	ND	16	16	208
BS25-09	4	August 4, 2025	ND	ND	ND	ND	ND	ND	ND	208
BS25-10	4	August 4, 2025	ND	ND	ND	ND	ND	ND	ND	112
BS25-11	4	August 4, 2025	ND	ND	ND	17	ND	17	17	128
BS25-12	4	August 4, 2025	ND	ND	ND	18	ND	18	18	144
BS25-13	2	August 4, 2025	ND	ND	ND	29	ND	29	29	64
BS25-14	2	August 4, 2025	ND	ND	ND	ND	ND	ND	ND	112
BS25-15	2	August 4, 2025	ND	ND	ND	ND	ND	ND	ND	160
BS25-16	2	August 4, 2025	ND	ND	ND	20	ND	20	20	272
BS25-17	2	August 4, 2025	ND	ND	ND	28	ND	28	28	224
BS25-18	2	August 4, 2025	ND	ND	ND	ND	ND	ND	ND	ND
BS25-19	2	August 4, 2025	ND	ND	ND	ND	ND	ND	ND	32
BS25-20	2	August 4, 2025	ND	ND	ND	ND	ND	ND	ND	32
BS25-21	2	August 4, 2025	ND	ND	ND	ND	ND	ND	ND	32
BS25-22	2	August 4, 2025	ND	ND	ND	ND	ND	ND	ND	64
BS25-23	2	August 4, 2025	ND	ND	ND	ND	ND	ND	ND	96
BS25-24	2	August 4, 2025	ND	ND	ND	ND	ND	ND	ND	ND
BS25-25	2	August 4, 2025	ND	ND	ND	ND	ND	ND	ND	16
BS25-26	3	August 4, 2025	ND	ND	ND	ND	ND	ND	ND	64
BS25-27	4	August 12, 2025	ND	ND	ND	ND	ND	ND	ND	128
WS25-01	0-3	August 4, 2025	ND	ND	ND	ND	ND	ND	ND	112
WS25-02	0-3	August 4, 2025	ND	ND	ND	40	ND	40	ND	512
WS25-03	(3-4)	August 4, 2025	ND	ND	ND	21	ND	21	21	448
WS25-04	0-6	August 12, 2025	ND	ND	ND	14	ND	14	14	208
WS25-05	0-4	August 4, 2025	ND	ND	ND	ND	ND	ND	ND	304
WS25-06	0-4	August 4, 2025	ND	ND	ND	ND	ND	ND	ND	320
WS25-07	0-4	August 4, 2025	ND	ND	ND	49	ND	49	ND	208



WS25-08	0-4	August 4, 2025	ND	ND	ND	ND	ND	ND	ND	128
WS25-09	(2-4)	August 4, 2025	ND	ND	ND	26	ND	26	ND	32
WS25-10	0-2	August 4, 2025	ND	ND	ND	15	ND	15	ND	64
WS25-11	0-2	August 4, 2025	ND	ND	ND	11	ND	11	ND	16
WS25-12	0-2	August 4, 2025	ND	ND	ND	16	ND	16	ND	80
WS25-13	0-3	August 4, 2025	ND	ND	ND	ND	ND	ND	ND	272
WS25-14	(4-6)	August 12, 2025	ND	ND	ND	ND	ND	ND	ND	576
BF - Calichie	0	August 4, 2025	ND	ND	ND	ND	ND	ND	ND	160

"ND" Not Detected at the Reporting Limit

"-" indicates not analyzed/assessed


Bold and grey shaded indicates exceedance outside of NMOCD Closure Criteria (on-pad)


APPENDIX A - Closure Criteria Research Documentation

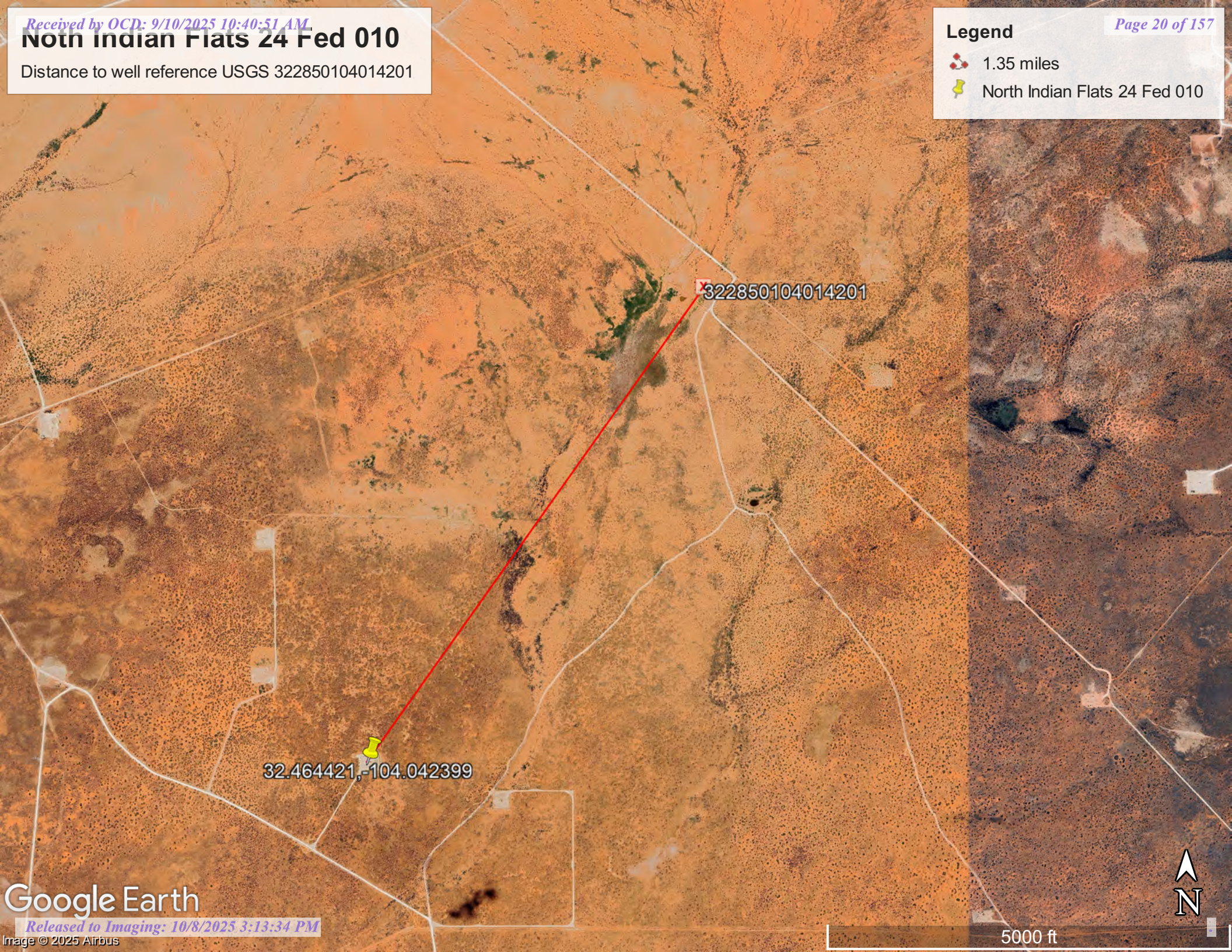
Noth Indian Flats 24 Fed 010

Distance to well reference USGS 322850104014201

Legend

 1.35 miles

 North Indian Flats 24 Fed 010



32.464421,-104.042399

322850104014201





USGS Home
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National Water Information System: Web Interface

USGS Water Resources

Data Category: Geographic Area:

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Search Results -- 1 sites found

Agency code = usgs
 site_no list =

- 322850104014201

Minimum number of levels = 1
[Save file of selected sites](#) to local disk for future upload

USGS 322850104014201 21S.29E.18.13320

Eddy County, New Mexico
 Latitude 32°28'49.33", Longitude 104°01'47.78" NAD83
 Land-surface elevation 3,289 feet above NAVD88
 The depth of the well is 160 feet below land surface.
 This well is completed in the Other aquifers (N9999OTHER) national aquifer.
 This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measur
1948-12-30			D 62610		3152.26	NGVD29	1	Z		
1948-12-30			D 62611		3153.88	NAVD88	1	Z		
1948-12-30			D 72019	135.12			1	Z		
1983-02-17			D 62610		3153.59	NGVD29	1	Z		
1983-02-17			D 62611		3155.21	NAVD88	1	Z		
1983-02-17			D 72019	133.79			1	Z		
1987-10-15			D 62610		3152.48	NGVD29	1	Z		
1987-10-15			D 62611		3154.10	NAVD88	1	Z		
1987-10-15			D 72019	134.90			1	Z		
1992-12-10			D 62610		3154.45	NGVD29	1	S		
1992-12-10			D 62611		3156.07	NAVD88	1	S		
1992-12-10			D 72019	132.93			1	S		
1998-01-27			D 62610		3150.21	NGVD29	1	S		
1998-01-27			D 62611		3151.83	NAVD88	1	S		
1998-01-27			D 72019	137.17			1	S		
2015-12-16	23:40 UTC		m 62610		3153.24	NGVD29	1	S	USGS	
2015-12-16	23:40 UTC		m 62611		3154.86	NAVD88	1	S	USGS	

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measur
2015-12-16	23:40 UTC	m	72019	134.14			1	S	USGS	
2021-02-23	18:00 UTC	m	62610		3151.52	NGVD29	1	S	USGS	
2021-02-23	18:00 UTC	m	62611		3153.14	NAVD88	1	S	USGS	
2021-02-23	18:00 UTC	m	72019	135.86			1	S	USGS	
2022-01-10	23:00 UTC	m	62610			NGVD29	6	S	USGS	
2022-01-10	23:00 UTC	m	62611			NAVD88	6	S	USGS	
2022-01-10	23:00 UTC	m	72019				6	S	USGS	

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Status	6	Measurement unable to be obtained due to local conditions
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement		Not determined
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)

Title: Groundwater for USA: Water Levels

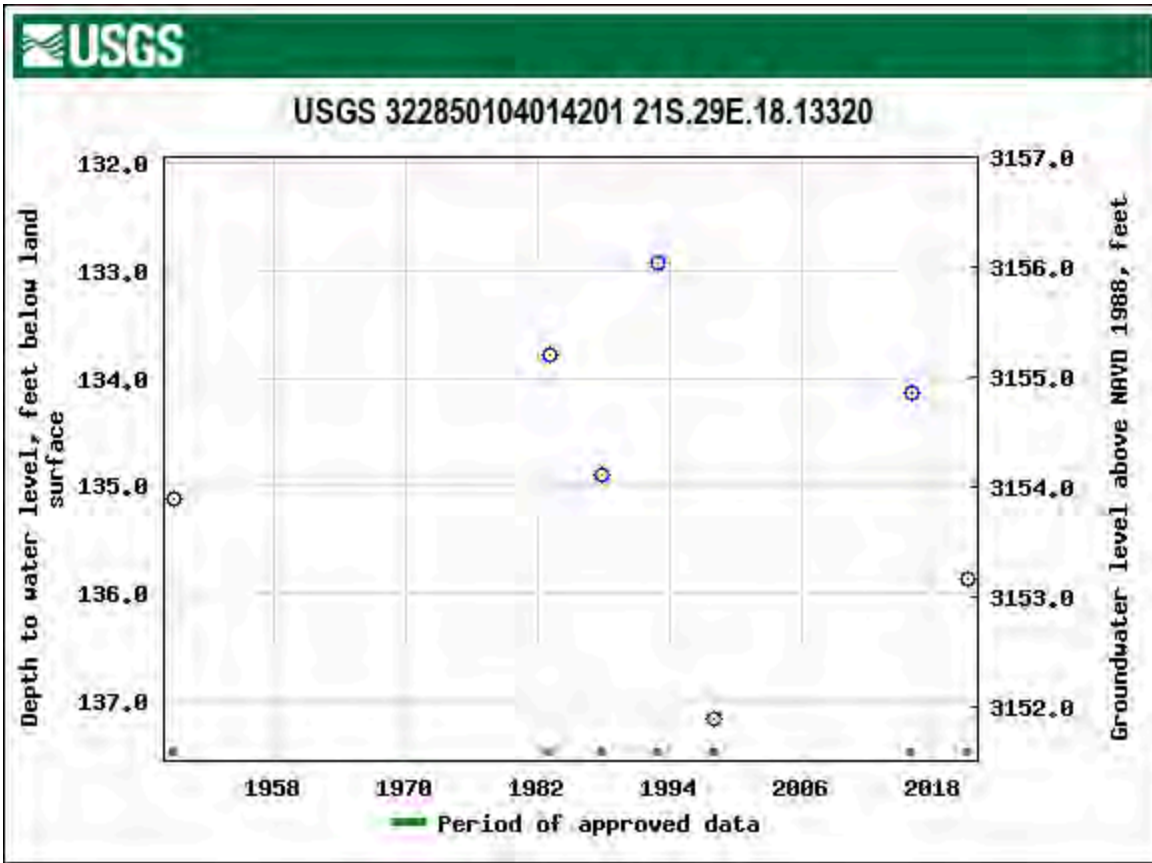
URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>



Page Contact Information: [USGS Water Data Support Team](#)

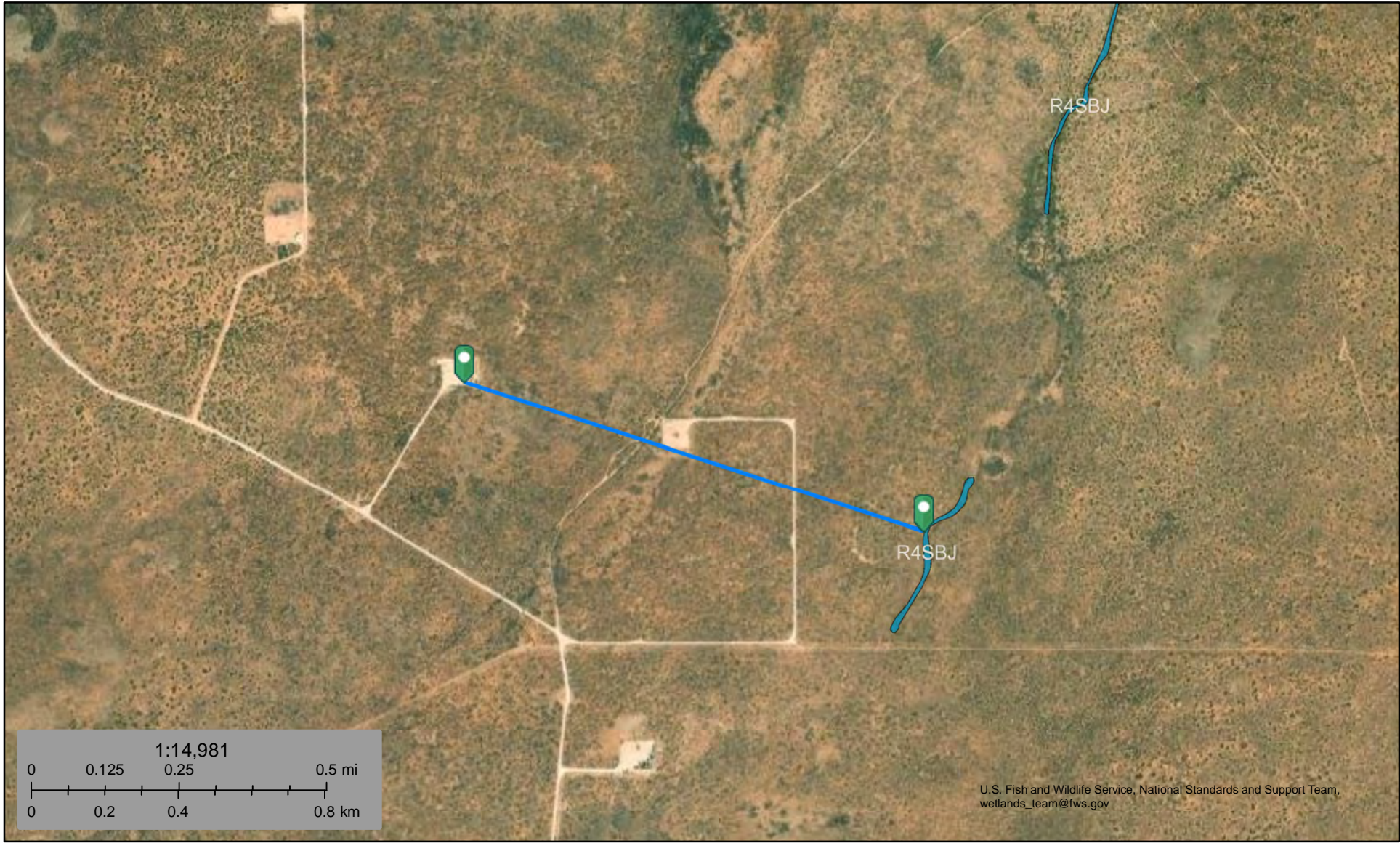
Page Last Modified: 2025-07-20 12:26:39 EDT

0.36 0.29 nadww01





02_Watercourse_3,651 feet



U.S. Fish and Wildlife Service, National Standards and Support Team, wetlands_team@fws.gov

July 19, 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.



03_Lake_35,187 feet



July 19, 2025

Wetlands

- Estuarine and Marine Deepwater
- Freshwater Emergent Wetland
- Lake
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Other
- Estuarine and Marine Wetland
- Riverine

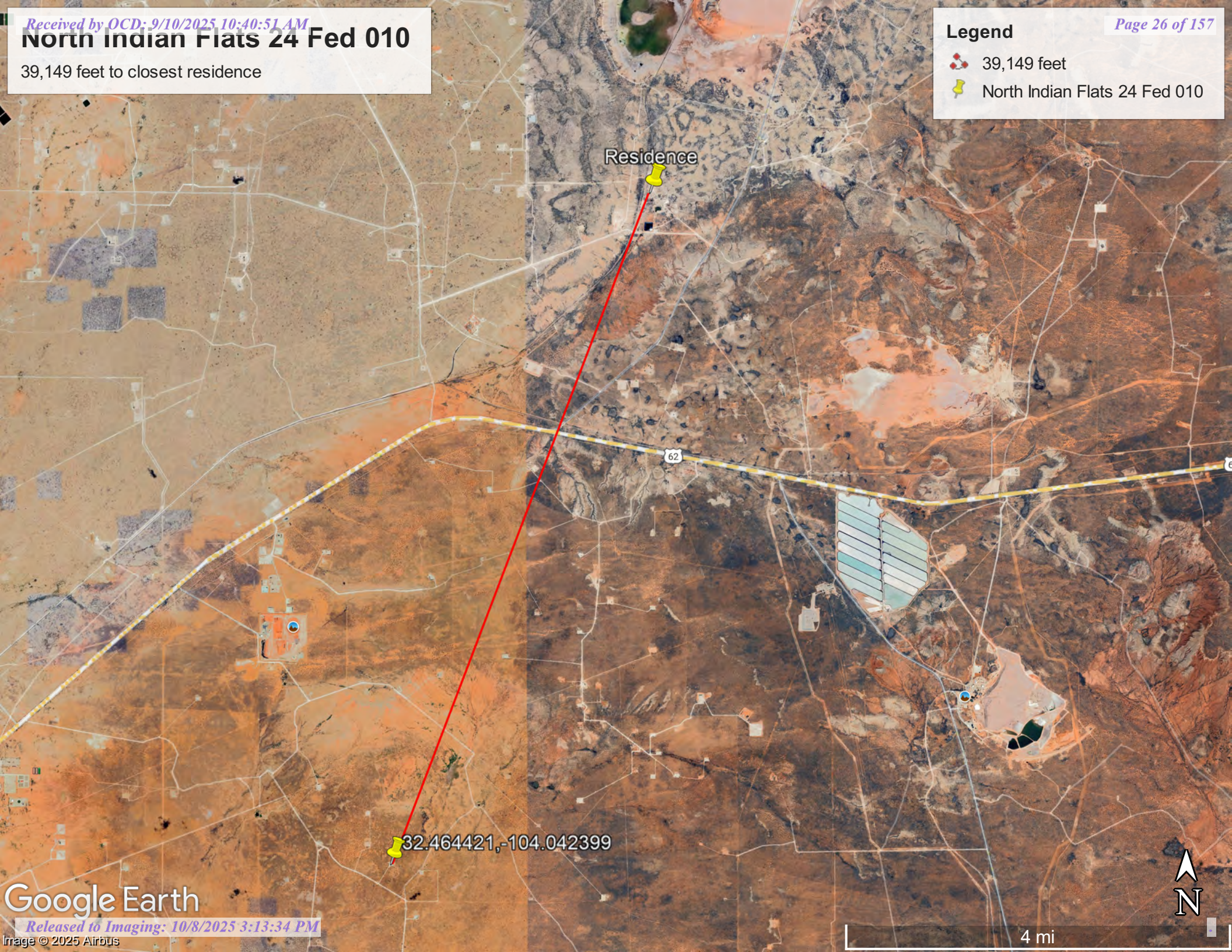
This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

North Indian Flats 24 Fed 010

39,149 feet to closest residence

Legend

-  39,149 feet
-  North Indian Flats 24 Fed 010



Residence

62

32.464421, -104.042399

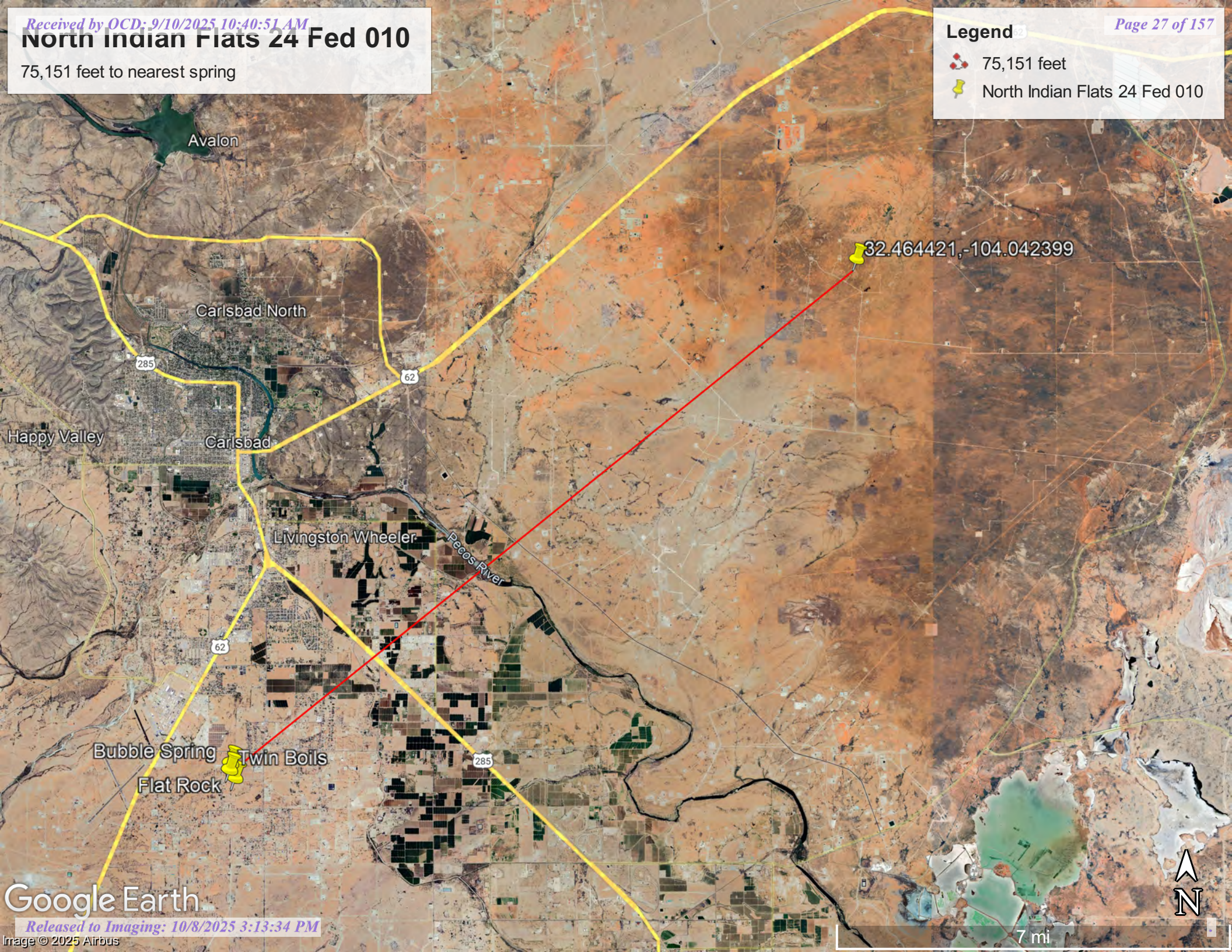


North Indian Flats 24 Fed 010

75,151 feet to nearest spring

Legend

-  75,151 feet
-  North Indian Flats 24 Fed 010



Avalon

Carlsbad North

285

62

32.464421, -104.042399

Happy Valley

Carlsbad

Livingston Wheeler

Pecos River

62

Bubble Spring

Twin Boils

Flat Rock

285





New Mexico Office of the State Engineer

Active & Inactive Points of Diversion

WR File Nbr	Sub basin	Use	Diversions (acre ft per annum)	Owner	County	POD Number	Well Tag	Code	Grant	Source	(R=POD has been replaced and no longer serves this file, C=the file is closed)				(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)				(NAD83 UTM in meters)		Map	Distance (meters)
											q64	q16	q4	Sec	Tws	Range	X	Y				
CP 00633	CP	PRO	0.000	PERRY R.BASS	ED	CP 00633					SE	NW	NE	26	21S	28E	588908.0	3591350.0 *		1,454.9		

Record Count: 1

Filters Applied:

UTM Filters (in meters):

Easting: 589993.43
Northing: 3592318.85
Radius: 1610

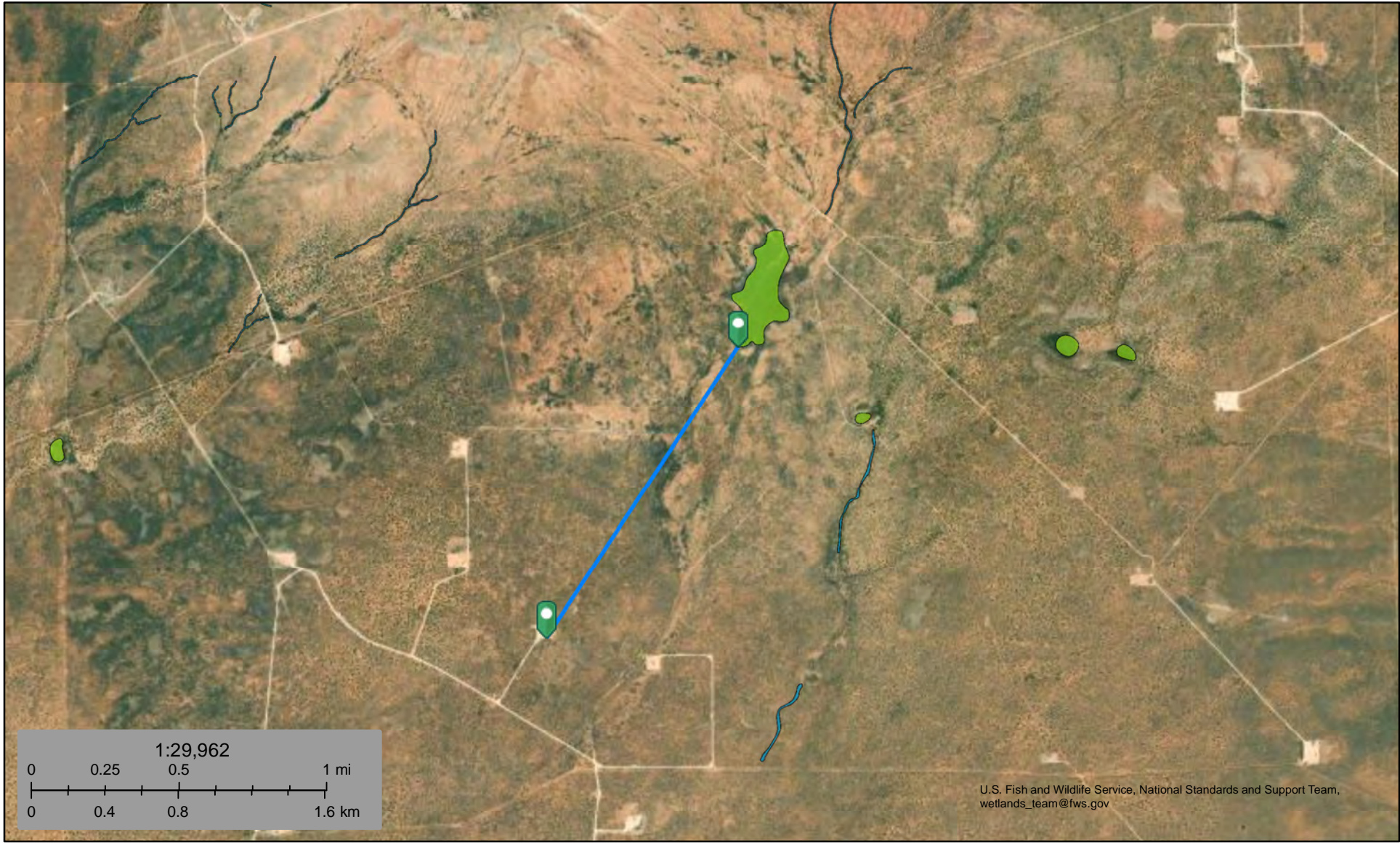
Sorted By: Distance

* UTM location was derived from PLSS - see Help

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



07_Wetland_5,241 feet



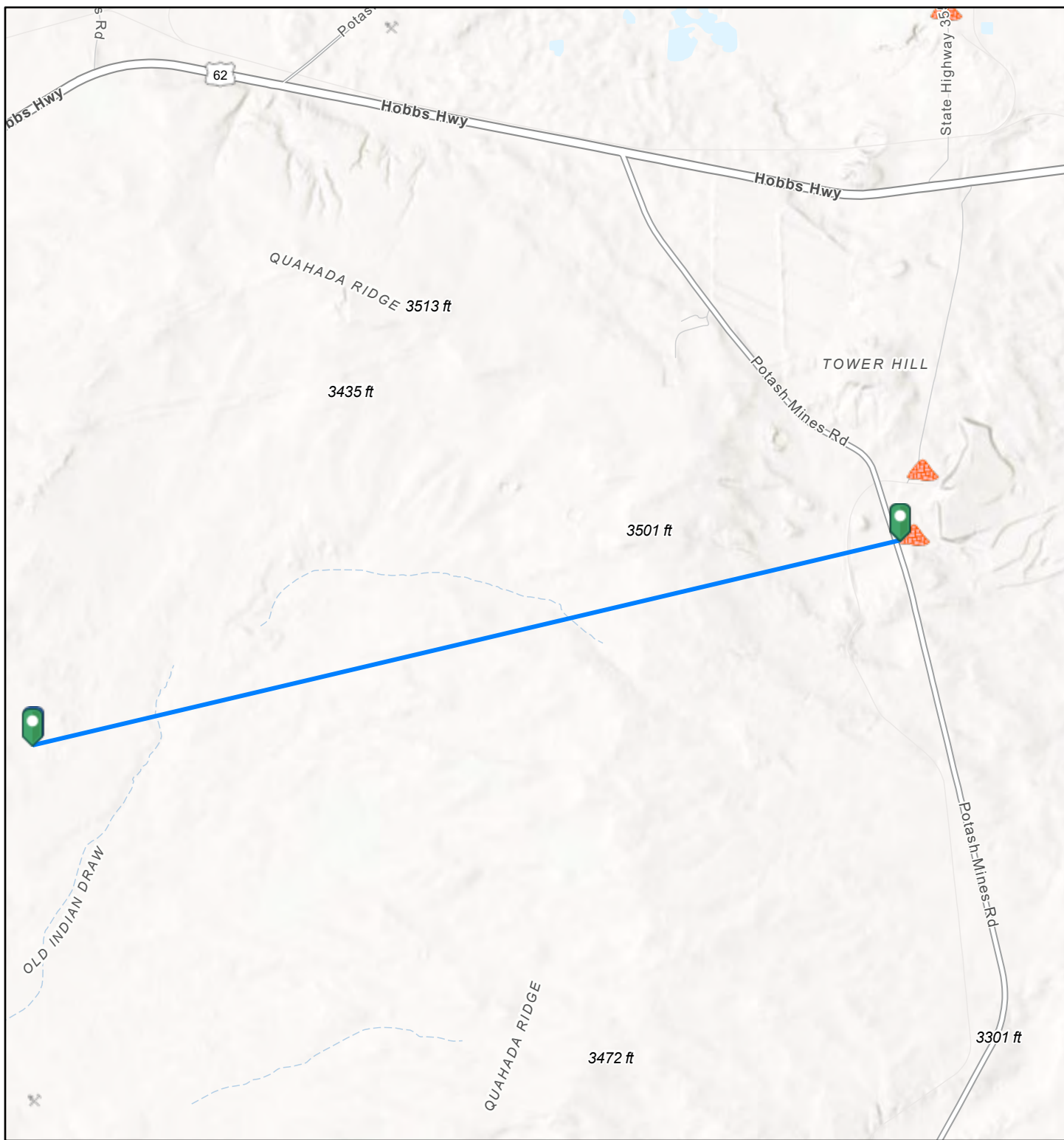
July 19, 2025

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.

North Indian Flats 24 Fed 010_Mine_31,980 ft

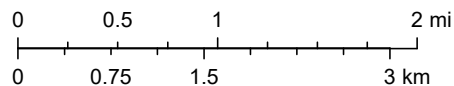


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1:72,224

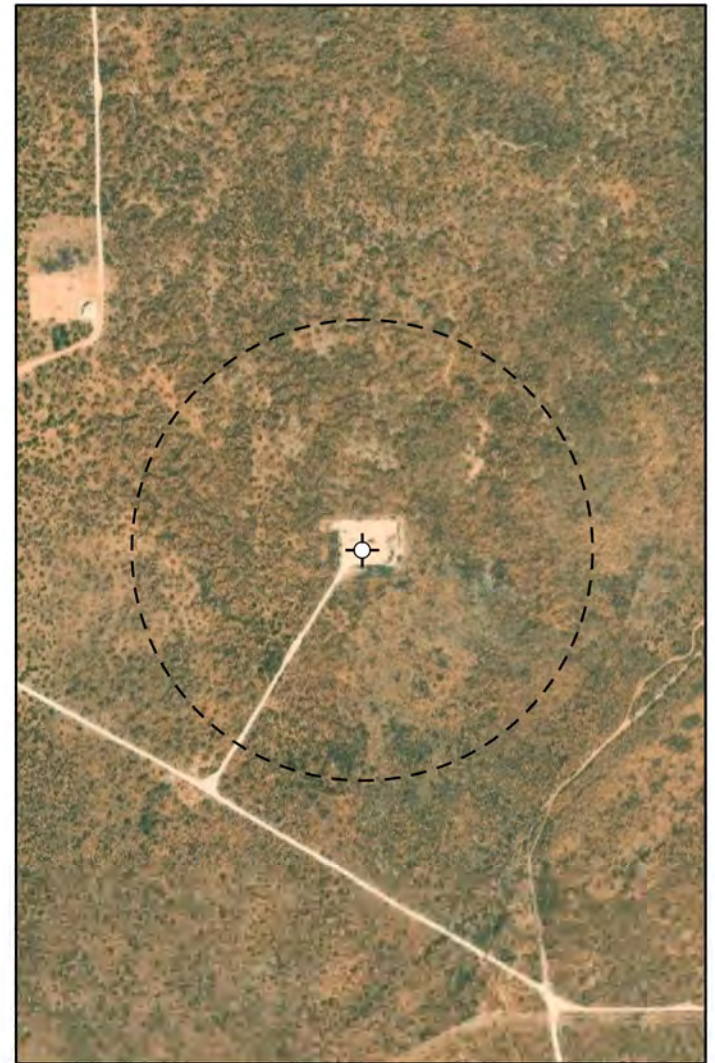
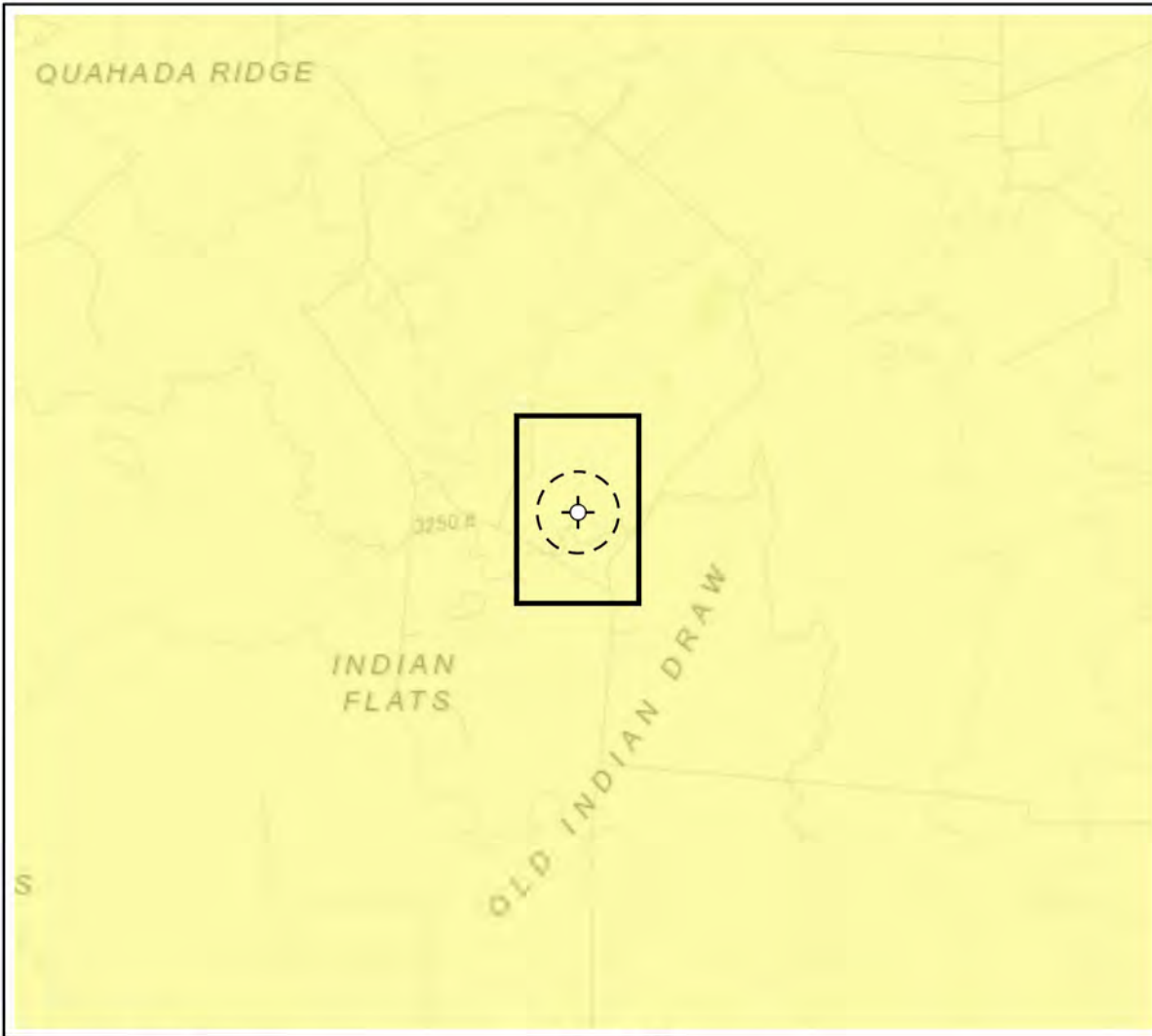
Registered Mines

- ✕ Aggregate, Stone etc.
- ✕ Aggregate, Stone etc.
- ▲ Potash



Esri, NASA, NGA, USGS, FEMA, Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community

Document Path: S:\04 - Geomatics\Projects\US PROJECTS\ExxonMobil Upstream Comp (Former: XTO)\XTO Energy\2025\25A-03772-North Indian Flats 24 Fed 010\00 - ArcPro\North Indian Flats 24 Fed 010.aprx



Karst Potential

- Critical
- High
- Medium
- Low

Site Location

Site Buffer (1000 ft.)

Overview Map

0 0.25 0.5 1 mi

Detail Map

0 150 300 600 ft



Map Center: NAD 1983 UTM Zone 13N
 Lat/Long: 32.464608°, -104.042417°
 Date: Jul 23/25



**Karst Potential Map
 North Indian Flats 24 Fed 010**




Figure: **X**

Geospatial data presented in this figure may be derived from external sources and Vertex does not assume any liability for inaccuracies. This figure is intended for reference use only and is not certified for legal, survey, or engineering purposes. Note: Inset Map, Esri 2025; Overview Map: Esri World Topographic. Karst potential data sources from Roswell Field Office, Bureau of Land Management, 2020 or United States Department of the Interior, Bureau of Land Management, (2018). Karst Potential.

North Indian Flats 24 Fed 010

FEMA Zone A Distance: 5,737 ft

Legend

-  North Indian Flats 24 Fed 010
-  5,737 feet
-  Zone A

32.464421,-104.042399

XTO BEU Federal 1-29 SW



Custom Soil Resource Report Soil Map



Map Scale: 1:1,360 if printed on A landscape (11" x 8.5") sheet.

0 20 40 80 120 Meters


0 50 100 200 300 Feet

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 13N WGS84


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: Eddy Area, New Mexico
 Survey Area Data: Version 20, 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: Nov 12, 2022—Dec 2, 2022

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.

Custom Soil Resource Report

Eddy Area, New Mexico**BD—Berino-Dune land complex, 0 to 3 percent slopes****Map Unit Setting**

National map unit symbol: 1w44
Elevation: 2,450 to 5,500 feet
Mean annual precipitation: 8 to 15 inches
Mean annual air temperature: 57 to 70 degrees F
Frost-free period: 180 to 230 days
Farmland classification: Not prime farmland

Map Unit Composition

Berino and similar soils: 45 percent
Dune land: 40 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Berino**Setting**

Landform: Plains, fan piedmonts
Landform position (three-dimensional): Riser
Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 17 inches: fine sandy loam
H2 - 17 to 50 inches: sandy clay loam
H3 - 50 to 60 inches: loamy sand

Properties and qualities

Slope: 0 to 3 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: 40 percent
Maximum salinity: Very slightly saline to slightly saline (2.0 to 4.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: Moderate (about 7.7 inches)

Interpretive groups

Land capability classification (irrigated): 3e
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: B
Ecological site: R070BC007NM - Loamy
Hydric soil rating: No

Custom Soil Resource Report

Description of Dune Land

Setting

Landform: Dune fields

Landform position (two-dimensional): Shoulder, backslope, footslope

Landform position (three-dimensional): Talf

Down-slope shape: Convex, linear

Across-slope shape: Convex, linear

Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 6 inches: sandy loam

H2 - 6 to 60 inches: sandy loam

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7e

Hydric soil rating: No

Minor Components

Active dune land

Percent of map unit: 5 percent

Hydric soil rating: No

Cacique

Percent of map unit: 5 percent

Ecological site: R070BD004NM - Sandy

Hydric soil rating: No

Kermit

Percent of map unit: 5 percent

Ecological site: R070BD005NM - Deep Sand

Hydric soil rating: No

Ecological site R070BC007NM

Loamy

Accessed: 07/19/2025

General information

Provisional. A provisional ecological site description has undergone quality control and quality assurance review. It contains a working state and transition model and enough information to identify the ecological site.

Figure 1. Mapped extent

Areas shown in blue indicate the maximum mapped extent of this ecological site. Other ecological sites likely occur within the highlighted areas. It is also possible for this ecological site to occur outside of highlighted areas if detailed soil survey has not been completed or recently updated.

Table 1. Dominant plant species

Tree	Not specified
Shrub	Not specified
Herbaceous	Not specified

Physiographic features

This site occurs on uplands landforms, mainly on hill slopes, ridges, plains, terraces and some fan remnants. Slopes range from 1 to 5 percent and average about 3 percent. Average annual precipitation is about 8 to 14 inches. Elevations range from 2,842 to 5,000 feet.

Table 2. Representative physiographic features

Landforms	(1) Plain (2) Terrace (3) Fan piedmont
Flooding frequency	None
Ponding frequency	None
Elevation	2,842–5,000 ft

Slope	0–5%
Aspect	E, S, W

Climatic features

The average annual precipitation ranges from 8 to 13 inches. Variations of 5 inches, more or less, are common. Over 80 percent of the precipitation falls from April through October. Most of the summer precipitation comes in the form of high intensity short duration thunderstorms.

Temperatures are characterized by distinct seasonal changes and large annual and diurnal temperature changes. The average annual temperature is 61 degrees with extremes of 25 degrees below zero in the winter to 112 degrees in the summer.

The average frost-free season is 207 to 220 days. The last killing frost is in late March or early April, and the first killing frost is in late October or early November.

Temperature and rainfall both favor warm season perennial plant growth. In years of abundant spring moisture, annual forbs and cool season grasses can make up an important component of this site. Strong winds blow from the southwest in January through June rapidly drying out the soil during a critical time for cool season plant growth.

Climate data was obtained from <http://www.wrcc.sage.dri.edu/summary/climsmnm.html> web site using 50% probability for freeze-free and frost-free seasons using 28.5 degrees F and 32.5 degrees F respectively.

Table 3. Representative climatic features

Frost-free period (average)	221 days
Freeze-free period (average)	240 days
Precipitation total (average)	13 in

Influencing water features

This site is not influenced by wetland or streams.

Soil features

The soils of this site are deep to moderately deep. The moderately deep soils have either a petrocalcic, petrogypsic or gypsum horizon between 30 and 40 inches.

Surface textures are loam, silt loam, very fine sandy loam, or clay loam. Substratum textures are loam, silty clay loam, clay loam, or silt loams. Subsoil textures are silt loam, clay loam silty clay loam, gravelly loam, gravelly clay loam or very gravelly loam.

Permeability is moderate to slow and the available water holding capacity is high to

moderate. The Atoka, Reeves, Russler, Milner soils may have high amounts of CaCO₃, ranging as high as 40 percent in the subsoil. Rock fragments range from 5 to 50 percent in the subsoil. Reeves, Russler, Milner, Holloman soils will have 40 to 80 percent gypsum in the underlying material.

Maximum and minimum values listed below represent the characteristic soils for this site.

Characteristic Soils:

Atoka (petrocalcic)
 Bigetty
 Reagan
 Reakor
 Reeves (gypsum)
 Russler (gypsum)
 Largo
 Russler (gypsum)
 Largo
 Berino
 Tinney
 Midessa
 Ratliff
 Holloman (gypsum)
 Milner (gypsum)

Table 4. Representative soil features

Surface texture	(1) Loam (2) Very fine sandy loam (3) Silt loam
Family particle size	(1) Loamy
Drainage class	Well drained to somewhat excessively drained
Permeability class	Moderate to slow
Soil depth	30–72 in
Surface fragment cover ≤3"	0–5%
Surface fragment cover >3"	0%
Available water capacity (0-40in)	5–12 in
Calcium carbonate equivalent (0-40in)	0–10%
Electrical conductivity (0-40in)	0–8 mmhos/cm

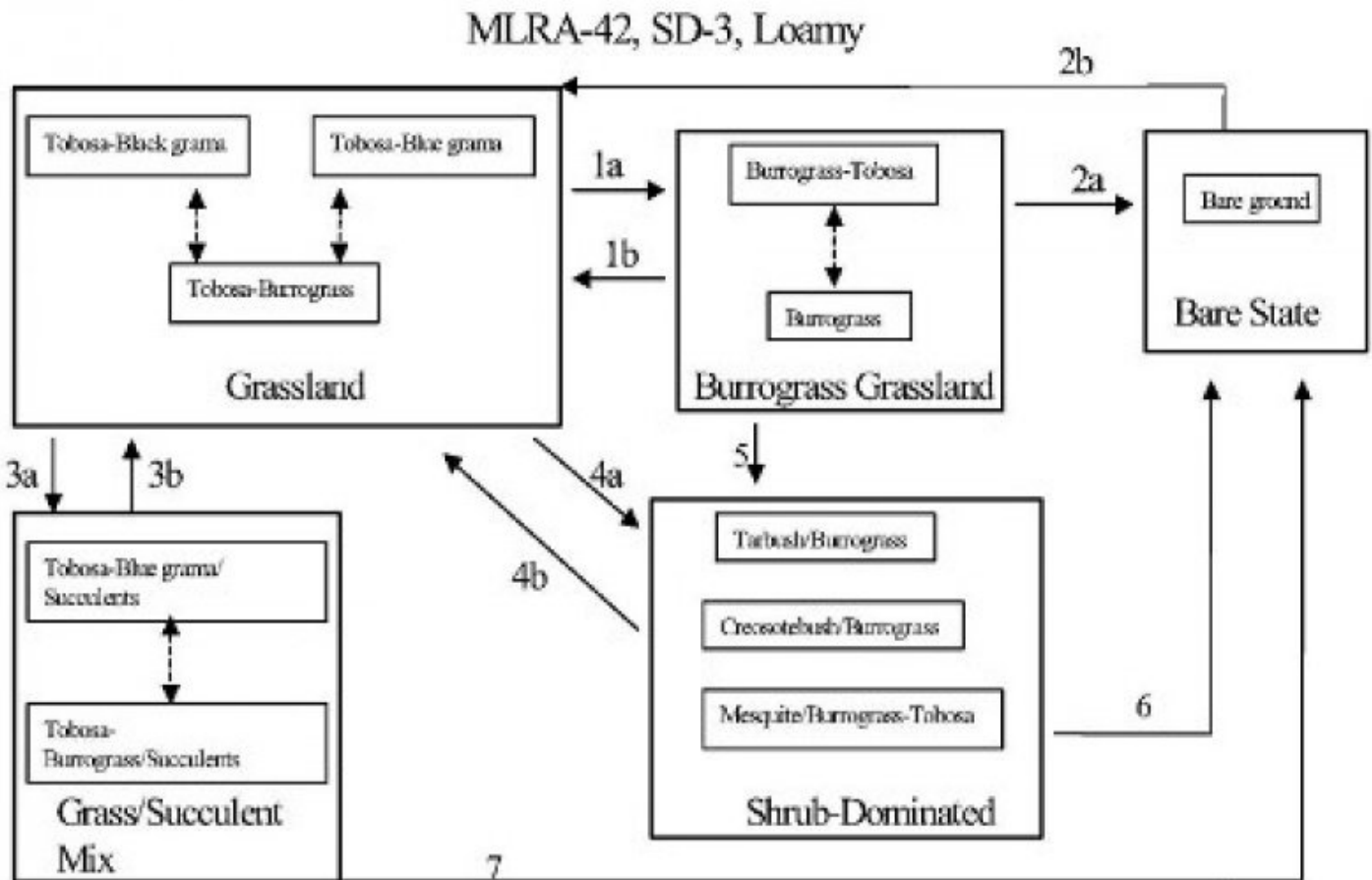
Sodium adsorption ratio (0-40in)	0–6
Soil reaction (1:1 water) (0-40in)	6.6–8.4
Subsurface fragment volume <=3" (Depth not specified)	0–5%
Subsurface fragment volume >3" (Depth not specified)	0%

Ecological dynamics

Overview: The Loamy site is associated with the Gyp Upland ecological site with which it intergrades. There is a pronounced increase in alkali sacaton along this interface. The loamy site is also associated with the Gravelly and Shallow ecological sites from which it receives run-on water. The Draw site often dissects Loamy sites and is distinguished from the Loamy site by increased production or greater densities of woody species. The historic plant community has a grassland aspect, dominated by grasses with shrubs and half-shrubs sparse and evenly distributed. Tobosa, black grama and blue grama are the dominant species. Retrogression within this state is characterized by a decrease in black and blue grama and an increase in burrograss. Continuous overgrazing and drought can initiate a transition to a Burrograss- Grassland state. Continued reduction in grass cover and resulting infiltration problems may eventually effect a change to a Bare State, with very little or no remaining grass cover. Alternatively, creosotebush, tarbush or mesquite may expand or invade. Transitions back to a Grassland State from a Bare or Shrub-Dominated state are costly and may not be economically feasible. Decreased fire frequency may play a part in the transition to the Grass/Succulent Mix state with increased amounts of cholla and prickly pear.

State and transition model

Plant Communities and Transitional Pathways (diagram)



- 1a. Soil drying, overgrazing, drought, soil surface sealing. 1b. Restore natural overland flow, increase infiltration, prescribed grazing.
- 2a. Severe reduction in cover, soil surface sealing, decreased infiltration, erosion. 2b. Restore hydrology, break up physical crust, range seeding, prescribed grazing.
- 3a. Lack of fire, overgrazing, hail storms or other physical disturbance, drought. 3b. Prescribed fire, brush control, prescribed grazing.
- 4a. Seed dispersal of shrubs, persistent loss of grass cover, competition by shrubs, lack of fire. 4b. Brush control, range seeding -dependent on amount of grass (seed bank) remaining.
- 5. Loss of grass cover, seed dispersal of shrubs, competition by shrubs.
- 6. & 7. Brush control with continued loss of grass cover, soil sealing, erosion.

**State 1
Historic Climax Plant Community**

**Community 1.1
Historic Climax Plant Community**

State Containing Historic Climax Plant Community Grassland: The historic plant community has a grassland aspect, dominated by grasses with shrubs and half-shrubs

sparse and evenly distributed. Black grama, blue grama, and tobosa are the dominant grass species. There are a variety of perennial forbs and their production varies widely by season and year. Globemallow, verbena, groundsels, croton and filaree are forbs commonly found on this site. Fourwing saltbush and winterfat are two of the more palatable shrubs. The Loamy ecological site encompasses a wide variety of soils, with surface textures ranging from sandy loams to clay loams. Soil depths range from shallow to very deep and can include sub surface features such as calcic, petrocalcic, and gypsic horizons. These variations cause differences in plant community composition and dynamics. Black grama is found at highest densities on coarser textured sandy loams, with blue grama preferring finer textured loam and silt loam, and tobosa favoring lower landscape positions and loam to clay loam surface textures. Burrograss may often be the dominant grass species on silty soils, perhaps in part due to the seedlings ability to auger into and establish on physically crusted soils. Gypsum influenced soils typically have greater amounts of tobosa, burrograss, and ephedra. There is greater representation of sideoats and vine mesquite within the tobosa-blue grama community. Retrogression under continuous heavy grazing results in a decrease of black grama, blue grama, sideoats grama, plains bristlegrass, bush muhly, cane bluestem, vine mesquite, winterfat, and fourwing saltbush. Species such as burrograss, threeawns, sand dropseed, sand muhly, and broom snakeweed increase under continuous heavy grazing or prolonged periods of drought. Under continued retrogression burrograss can completely dominate the site. Creosotebush, tarbush, and mesquite, can also dominate. Cholla and prickly pear can increase on areas that are disturbed or overgrazed. Diagnosis: Tobosa, black grama, and blue grama are the dominant species. Grass cover is uniformly distributed with few large bare areas. Shrubs are sparse and evenly distributed. Slopes range from level to gently sloping and usually display limited evidence of active rills and gully formation if plant cover remains intact. Litter movement associated with overland flow is limited to smaller size class litter and short distances. Other shrubs include: yucca, mesquite, tarbush, cholla and creosote bush. Other forbs include: desert holly, scorpionweed, bladderpod, flax, nama, fleabane, Indianwheat, Indian blanket flower, groundcherry, deerstongue, and rayless goldenrod.

Table 5. Annual production by plant type

Plant Type	Low (Lb/Acre)	Representative Value (Lb/Acre)	High (Lb/Acre)
Grass/Grasslike	585	833	1080
Forb	39	55	72
Shrub/Vine	26	37	48
Total	650	925	1200

Table 6. Ground cover

Tree foliar cover	0%
Shrub/vine/liana foliar cover	0%

Grass/grasslike foliar cover	15-30%
Forb foliar cover	0%
Non-vascular plants	0%
Biological crusts	0%
Litter	25-30%
Surface fragments >0.25" and <=3"	0%
Surface fragments >3"	0%
Bedrock	0%
Water	0%
Bare ground	40-50%

Figure 5. Plant community growth curve (percent production by month). NM2807, R042XC007NM Loamy HCPC. R042XC007NM Loamy HCPC Warm Season Plant Community..

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0	0	0	5	10	10	25	30	15	5	0	0

State 2 Burrograss-Grassland

Community 2.1 Burrograss-Grassland

Burrograss-Grassland: Changes in hydrology resulting in decreased available soil moisture, reduces grass cover and increases bare ground. Burrograss is the dominant grass. Tobosa cover is variable and can range from sizeable areas to small patches occupying only depressions or the lowest and wettest positions within the site. Threeawns, ear muhly, sand muhly, and fluffgrass occur at increased densities compared to the grassland state. Shrub densities may increase especially mesquite, creosotebush or tarbush. Retrogression within this state is characterized by a further decrease in grass cover and increased bare ground. Further deterioration of this site can result in the transition to a bare state or becoming shrub dominated. Diagnosis: Burrograss is the dominant species. Grass cover is no longer uniformly distributed, instead tending to be patchy with large areas of bare ground present. Physical crusts are present in bare areas reducing infiltration and suppressing seedling establishment by any grass species other than burrograss. Transition to Burrograss-Grassland (1a): Transitions from grassland to a burrograss-grassland state may occur due to changes in hydrology. Gullies, roads or obstructions that alter natural water flow patterns may cause this transition. Changes in surface hydrology may also occur due to overgrazing or drought. The reduction in grass cover promotes increased soil physical crusts and reduces infiltration. 5 Key indicators of

approach to transition: ? Diversion of overland flow resulting in decreased soil moisture. ? Increase in amount of burrograss cover ? Reduction in grass cover and increase in size and frequency of bare patches. ? Formation of physical crusts—indicating reduced infiltration. ? Evidence of litter movement—indicating loss or redistribution of organic matter. Transition back to Grassland (1b) The natural hydrology of the site must be returned. Culverts, turnouts, or rerouting roads may help re-establish natural overland flow, if roads or trails have altered the hydrology. Erosion control structures or shaping and filling gullies may help regain natural flow patterns and establish vegetation if the flow has been channeled. Breaking up physical crusts by soil disturbance may promote infiltration and seedling emergence. Allow natural revegetation to take place. Prescribed grazing will help ensure proper forage utilization and reduce grass loss due to grazing.

State 3

Bare State

Community 3.1

Bare State

Bare State: Extremely low ground cover, soil degradation and erosion characterize this state. Very little vegetation remains. Burrograss is the dominant grass and cover is extremely patchy. Physical soil crusts are extensive. Erosion and resource depletion increase as site degrades. Diagnosis: Very little cover remains. Erosion is evident by soil sealing, water flow patterns, pedestals or terracettes. Rills and gullies may be present and active. Transition to Bare State (2a): Extended drought, continuous heavy grazing, or other disturbance that severely depletes grass cover can effect this transition. As grass cover decreases, sheet flow and erosion increase, and physical soil crusts form, thereby further reducing infiltration. Key indicators of approach to transition: ? Continued reduction in grass cover. ? Increased soil surface sealing. ? Increased erosion. ? Reduced aggregate stability in bare areas. Transition back to Grassland (2b) Restore the hydrology, see (1a). With the extent of grass loss range seeding may be necessary. Utilizing livestock or mechanical means to break up the physical crusts may increase infiltration and aid seedling establishment. Prescribed grazing will help ensure adequate deferment period following seeding, and proper forage utilization once the grass stand is well established. The degree to which this site is capable of recovery depends on the restoration of hydrology, extent of degradation to soil resources, and adequate rainfall necessary to establish grasses.

State 4

Grass/Succulent Mix

Community 4.1

Grass/Succulent Mix

Grass / Succulent Mix: Increased representations of succulents characterize this site.

Increased densities of cholla or pricklypear is recognized as a management concern, but their impact on grass production is unclear. Light to medium cholla or prickly pear infestation doesn't seem to greatly reduce grass production, however it limits access to palatable grasses and interferes with livestock movement and handling. Tobosa and blue grama are the dominant species on this site. Retrogression within this site is characterized by a decrease in blue grama and an increase in succulents, tobosa and burrograss. Diagnosis: Cholla or prickly pear is found at increased densities. Grass cover is variable ranging from uniformly distributed to patchy with frequent areas of bare ground present. Tobosa or blue grama is the dominant grass species. Transition to Grass/Succulent Mix (3a): If fire was historically a part of desert grassland ecosystem and played a role in suppressing seedlings of shrubs and succulents, then fire suppression may favor the increase of succulents.¹ Heavy grazing by livestock or other physical disturbances may help disseminate seed and increase the establishment of succulents. Areas historically overgrazed by sheep are sometimes associated with higher densities of Succulents. Intense hailstorms can spread pricklypear by breaking off joints causing new plants to take root.³ During severe drought perennial grass cover can decline significantly, leaving resources available for use by more drought tolerant succulents. Cholla and pricklypear are both adapted to and favored by drought due to the ability of their shallow, wide spreading root systems to absorb and store water.⁴ Key indicators of approach to transition: ? Decrease or change in distribution of grass cover. ? Increase in amount of succulent seedlings. ? Increased cover of succulents. Transition back to Grassland (3b) Fire is an effective means of controlling cholla and prickly pear if adequate grass cover remains to carry fire.² Cholla greater than two feet tall or pricklypear with a large amount of pads (>15-20) are harder to kill. Chemical control is effective in controlling prickly pear and cholla; apply when growth starts in May. Hand grubbing is also effective if cholla or pricklypear is severed 2-4 inches below ground and care is taken not to let broken joints or pads take root. Stacking and burning piles and grubbing during winter or drought help keeps broken joints and pads from rooting. Prescribed grazing will help ensure proper forage utilization and sustain grass cover.

State 5

Shrub Dominated

Community 5.1

Shrub Dominated

Shrub Dominated: Increased shrub cover characterizes this state. Mesquite, creosotebush, and/or tarbush are the dominant shrub species. Burrograss or tobosa is the dominant grass species. Grass cover is decreased, typically patchy with large bare areas present; however, sometimes grass cover can remain relatively high for extended periods when associated with light to moderate infestations of mesquite. Variations in soil characteristics play a part in determining which shrub species increase. Mesquite is well adapted to a wide range of soil types, but increases more often on deep soils low in carbonates, that have a sandy surface overlying finer textured soils. Tarbush prefers finer textured, calcareous soils, usually in lower positions that receive some extra water.

Creosotebush is less tolerant of fine textured soils, preferring sandy, calcareous soils that have some gravel. Creosotebush also does well on soils that are shallow over caliche. Retrogression within this state is characterized by a decrease in tobosa, and an increase in burrograss. As the site continues to degrade shrub cover continues to increase and grass cover is severely reduced. Diagnosis: Mesquite, Creosotebush, and/or tarbush are the dominant shrubs. Blue grama and black grama cover is low or absent. Burrograss or tobosa are the dominant grasses. Typically grass cover is patchy with large interconnected bare areas present. Physical soil crusts are present, especially on silt loam surface soils.

Transition to Shrub Dominated (4a): Wildlife and livestock consume and disperse mesquite seeds. Flood events may wash creosote or tarbush seeds off adjacent gravelly sites onto the loamy site and supply adequate moisture for germination. Persistent loss of grass cover due to overgrazing or drought can cause large bare patches, providing competition free areas for shrub seedling establishment. As shrub cover increases, competition for soil resources, especially water, becomes a major factor in further reducing grass cover. Reduction of fire, due to either fire suppression policy or loss of adequate fine fuels may increase the probability of shrub encroachment. Increased soil surface physical crusts and associated decreased infiltration, may prevent the establishment of grass seedlings.

Transition to Shrub Dominated (5): The dispersal of creosotebush, tarbush or mesquite seed, combined with loss of grass cover and resource competition by shrubs may cause this transition. Key indicators of approach to transition: ? Decreased grass and litter cover. ? Increased bare patch size. ? Increased physical soil crusts. ? Increased amount of mesquite, creosotebush, or tarbush seedlings. ? Increased shrub cover. Transition back to Grassland (4b) Brush control will be necessary to remove shrubs and eliminate competition for resources necessary for grass establishment or reproduction. Seeding may be necessary on those sites where desired grass species are absent or very limited. Pitting and seeding may increase the chances of successful grass establishment. Prescribed grazing will help ensure adequate time is elapsed before grazing seeded area is allowed and proper forage utilization following seeding establishment.

Transition to Bare State (6): If grass cover on the shrub-dominated state is severely limited and shrubs are removed a bare state may result. This transition will depend on amount of grasses or seed remaining, whether site is seeded, or if seeding is successful.

Transition to Bare State (7): Removal of succulents and continued overgrazing or drought may cause loss of remaining grasses and erosion. Soil surface physical crusting may also be an important factor in inhibiting grass seedling establishment

Additional community tables

Table 7. Community 1.1 plant community composition

Group	Common Name	Symbol	Scientific Name	Annual Production (Lb/Acre)	Foliar Cover (%)
Grass/Grasslike					
1	Warm Season			278–324	
	tobosagrass	PLMU3	<i>Pleuraphis mutica</i>	278–324	–

APPENDIX B – Daily Field and Sampling Report(s)



Daily Site Visit Report

Site Photos

Viewing Direction: North



Diagnostic Photo - 1
Viewing Direction: North
Desc: Hydrovac area was marked out
Created: 7/29/2025 8:57:49 AM
Lat:32.484488, Long:-104.043267

Hydrovac area was marked out

Viewing Direction: East



Diagnostic Photo - 2
Viewing Direction: East
Desc: Hydrovac area was marked out
Created: 7/29/2025 9:08:41 AM
Lat:32.484488, Long:-104.042233

Hydrovac area was marked out

Viewing Direction: Southeast



Diagnostic Photo - 3
Viewing Direction: Southeast
Desc: Excavation area was marked out
Created: 7/29/2025 9:08:41 AM
Lat:32.484488, Long:-104.042233

Excavation area was marked out

Daily Site Visit Report



Daily Site Visit Signature

Inspector: Riley Arnold

Signature:


Signature



Daily Site Visit Report

Site Photos

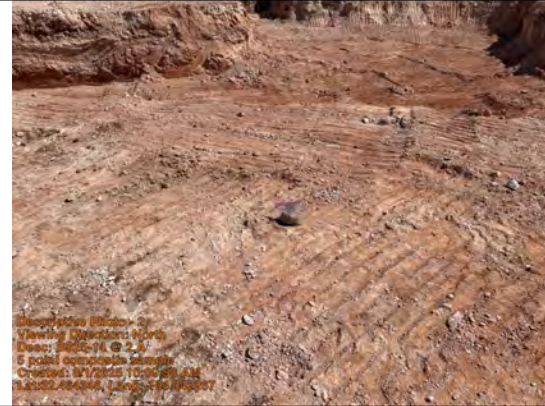
Viewing Direction: Northeast



Descriptive Photo - 2
Viewing Direction: Northeast
Desc: BS25-13 @ 2'A
5 point composite sample
Created: 9/1/2025 10:00:35 AM
Lat:32.484358, Long:-104.62294

BS25-13 @ 2'
5 point composite sample

Viewing Direction: North



Descriptive Photo - 2
Viewing Direction: North
Desc: BS25-14 @ 2'A
5 point composite sample
Created: 9/1/2025 10:00:26 AM
Lat:32.484348, Long:-104.62297

BS25-14 @ 2'
5 point composite sample

Viewing Direction: Northwest



Descriptive Photo - 3
Viewing Direction: West
Desc: BS25-15 @ 2'A
5 point composite sample
Created: 9/1/2025 10:10:15 AM
Lat:32.484367, Long:-104.62294

BS25-15 @ 2'
5 point composite sample

Viewing Direction: West



Descriptive Photo - 4
Viewing Direction: Northwest
Desc: BS25-16 @ 2'A
5 point composite sample
Created: 9/1/2025 10:10:49 AM
Lat:32.484348, Long:-104.62297

BS25-16 @ 2'
5 point composite sample



Daily Site Visit Report



BS25-17 @ 2'
5 point composite sample



BS25-18 @ 2'
5 point composite sample



BS25-19 @ 2'
5 point composite sample



BS25-20 @ 2'
5 point composite sample



Daily Site Visit Report



BS25-21 @ 2'
5 point composite sample



BS25-22 @ 2'
5 point composite sample



BS25-23 @ 2'
5 point composite sample



BS25-24 @ 2'
5 point composite sample



Daily Site Visit Report

Viewing Direction: East

Descriptive Photo - 13
Viewing Direction: East
Desc: BS25-25 @ 2'
5 point composite sample
Created: 9/1/2025 11:54:27 AM
Lat:32.664361, Long:-104.042281

BS25-25 @ 2'
5 point composite sample

Viewing Direction: South

Descriptive Photo - 14
Viewing Direction: South
Desc: WS25-09 @ 2-4'
5 point composite sample
Created: 9/1/2025 11:54:33 AM
Lat:32.664361, Long:-104.042281

WS25-09 @ 2-4'
5 point composite sample

Viewing Direction: South

Descriptive Photo - 15
Viewing Direction: South
Desc: WS25-11 @ 0-2'
5 point composite sample
Created: 9/1/2025 11:54:39 AM
Lat:32.664361, Long:-104.042281

WS25-11 @ 0-2'
5 point composite sample

Viewing Direction: West

Descriptive Photo - 16
Viewing Direction: West
Desc: WS25-12 @ 0-2'
5 point composite sample
Created: 9/1/2025 11:54:44 AM
Lat:32.664361, Long:-104.042281

WS25-12 @ 0-2'
5 point composite sample



Daily Site Visit Report



WS25-13 @ 0-2'
5 point composite sample



BS25-26 @ 3'
5 point composite sample



WS25-10 @ 0-2'
5 point composite sample



WS25-03 @ 3-4'
5 point composite sample

Daily Site Visit Report



Daily Site Visit Signature

Inspector: Riley Arnold

Signature:


Signature



Daily Site Visit Report

Client: ExxonMobil Incident ID #: _____
Site Location Name: North Indian Flats 24 Fed 010 API #: _____
Inspection Date: 8/4/2025 _____

Summary of Times

Arrived at Site 8/4/2025 9:30 AM
Departed Site 8/4/2025 3:15 PM

Field Notes

- 9:42** Travel to site/ safety paperwork
- 11:44** Remaining confirmation wall samples were collected
- 11:45** BS25-01 through BS25-03 were collected
- 11:45** All samples were field screened
- 15:15** Samples were jarred, labeled and coc's were created
- 15:15** Map edits were made

Next Steps & Recommendations

- 1 Complete confirmation sampling



Daily Site Visit Report

Site Photos

Viewing Direction: West



Descriptive Photo - 1
Viewing Direction: West
Date: 8/4/2025 @ 3:4
Created: 8/4/2025 10:01:33 AM
Lat: 32.464486, Long: 104.042284

BS25-01 @ 3'

Viewing Direction: West



Descriptive Photo - 2
Viewing Direction: West
Date: 8/4/2025 @ 3:4
Created: 8/4/2025 10:01:43 AM
Lat: 32.464486, Long: 104.042284

BS25-02 @ 3'

Viewing Direction: East



Descriptive Photo - 3
Viewing Direction: East
Date: 8/4/2025 @ 3:4
Created: 8/4/2025 10:01:58 AM
Lat: 32.464486, Long: 104.042284

BS25-03 @ 3'

Viewing Direction: North

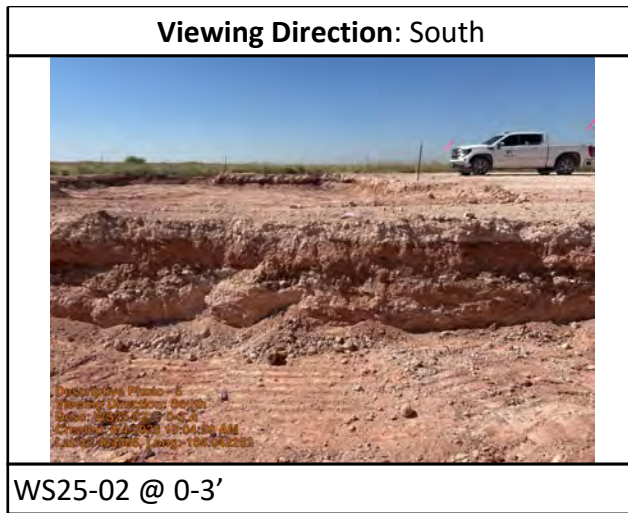


Descriptive Photo - 4
Viewing Direction: North
Date: 8/4/2025 @ 3:4
Created: 8/4/2025 10:04:47 AM
Lat: 32.464486, Long: 104.042284

WS25-01 @ 0-3'

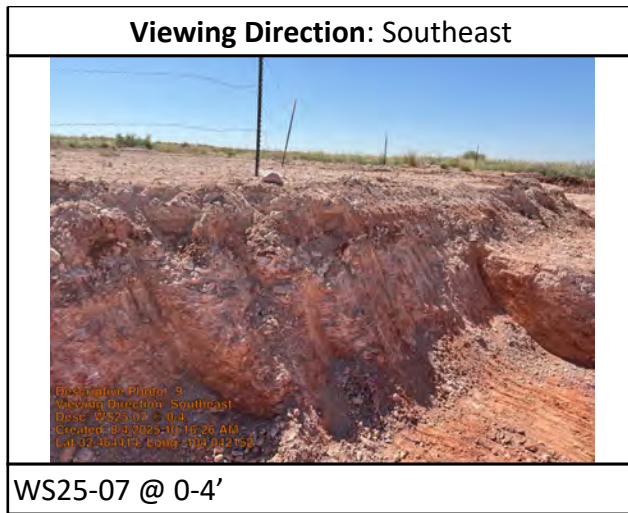


Daily Site Visit Report





Daily Site Visit Report



Daily Site Visit Report



Daily Site Visit Signature

Inspector: Riley Arnold

Signature:


Signature



Daily Site Visit Report

Client:	ExxonMobil	Incident ID #:	
Site Location Name:	North Indian Flats 24 Fed 010	API #:	
Inspection Date:	8/22/2025		

Summary of Times

Arrived at Site	8/22/2025 12:00 PM
Departed Site	8/22/2025 2:30 PM

Field Notes

- 11:50** Travel to site/ safety paperwork
- 11:50** Confirmation sampling was completed
- 11:50** Samples were field screened
- 13:44** Samples were jarred and labeled
- 13:44** Coc was created

Next Steps & Recommendations

- 1 Reporting/ backfill



Daily Site Visit Report

Site Photos

Viewing Direction: North



Descriptive Photo: 3
Viewing Direction: North
Date: 8/22/2025 @ 8
Created: 8/22/2025 11:27:57 AM
Lat:32.484616, Long:-104.042209

BS25-05 @ 6'

Viewing Direction: Southwest



Descriptive Photo: 3
Viewing Direction: SW
Date: 8/22/2025 @ 8
Created: 8/22/2025 11:28:51 AM
Lat:32.484616, Long:-104.042209

BS25-06 @ 4'

Daily Site Visit Report



Daily Site Visit Signature

Inspector: Riley Arnold

Signature:

A handwritten signature in black ink, appearing to be 'RA', written over a thin horizontal line. The word 'Signature' is printed in small text below the line.

APPENDIX C – Laboratory Data Report(s) and Chain of Custody Form(s)



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

July 24, 2025

CHAD HENSLEY
VERTEX RESOURCE
3101 BOYD DRIVE
CARLSBAD, NM 88220

RE: NORTH INDIAN FLATS 24 FED 010

Enclosed are the results of analyses for samples received by the laboratory on 07/21/25 12:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

VERTEX RESOURCE
 CHAD HENSLEY
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received:	07/21/2025	Sampling Date:	07/15/2025
Reported:	07/24/2025	Sampling Type:	Soil
Project Name:	NORTH INDIAN FLATS 24 FED 010	Sampling Condition:	Cool & Intact
Project Number:	25A-03772	Sample Received By:	Alyssa Parras
Project Location:	EXXON MOBIL		

Sample ID: BH 25-02 @ 4.0' (H254364-01)

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	07/23/2025	ND	2.05	102	2.00	3.46	
Toluene*	<0.050	0.050	07/23/2025	ND	2.05	103	2.00	3.59	
Ethylbenzene*	<0.050	0.050	07/23/2025	ND	2.06	103	2.00	3.11	
Total Xylenes*	<0.150	0.150	07/23/2025	ND	6.16	103	6.00	2.97	
Total BTEX	<0.300	0.300	07/23/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	144	16.0	07/22/2025	ND	480	120	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	07/23/2025	ND	214	107	200	0.866	
DRO >C10-C28*	26.1	10.0	07/23/2025	ND	201	100	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	07/23/2025	ND					

Surrogate: 1-Chlorooctane 102 % 44.4-145

Surrogate: 1-Chlorooctadecane 105 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

VERTEX RESOURCE
 CHAD HENSLEY
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received:	07/21/2025	Sampling Date:	07/15/2025
Reported:	07/24/2025	Sampling Type:	Soil
Project Name:	NORTH INDIAN FLATS 24 FED 010	Sampling Condition:	Cool & Intact
Project Number:	25A-03772	Sample Received By:	Alyssa Parras
Project Location:	EXXON MOBIL		

Sample ID: BH 25-04 @ 2.0' (H254364-02)

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	07/23/2025	ND	2.05	102	2.00	3.46	
Toluene*	<0.050	0.050	07/23/2025	ND	2.05	103	2.00	3.59	
Ethylbenzene*	<0.050	0.050	07/23/2025	ND	2.06	103	2.00	3.11	
Total Xylenes*	<0.150	0.150	07/23/2025	ND	6.16	103	6.00	2.97	
Total BTEX	<0.300	0.300	07/23/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/22/2025	ND	480	120	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	07/23/2025	ND	214	107	200	0.866	
DRO >C10-C28*	<10.0	10.0	07/23/2025	ND	201	100	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	07/23/2025	ND					

Surrogate: 1-Chlorooctane 109 % 44.4-145

Surrogate: 1-Chlorooctadecane 112 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

VERTEX RESOURCE
 CHAD HENSLEY
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received:	07/21/2025	Sampling Date:	07/15/2025
Reported:	07/24/2025	Sampling Type:	Soil
Project Name:	NORTH INDIAN FLATS 24 FED 010	Sampling Condition:	Cool & Intact
Project Number:	25A-03772	Sample Received By:	Alyssa Parras
Project Location:	EXXON MOBIL		

Sample ID: BH 25-05 @ 0.0' (H254364-03)

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	07/23/2025	ND	2.05	102	2.00	3.46	
Toluene*	<0.050	0.050	07/23/2025	ND	2.05	103	2.00	3.59	
Ethylbenzene*	<0.050	0.050	07/23/2025	ND	2.06	103	2.00	3.11	
Total Xylenes*	<0.150	0.150	07/23/2025	ND	6.16	103	6.00	2.97	
Total BTEX	<0.300	0.300	07/23/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/22/2025	ND	480	120	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	07/23/2025	ND	214	107	200	0.866	
DRO >C10-C28*	<10.0	10.0	07/23/2025	ND	201	100	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	07/23/2025	ND					

Surrogate: 1-Chlorooctane 109 % 44.4-145

Surrogate: 1-Chlorooctadecane 113 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

VERTEX RESOURCE
 CHAD HENSLEY
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received:	07/21/2025	Sampling Date:	07/15/2025
Reported:	07/24/2025	Sampling Type:	Soil
Project Name:	NORTH INDIAN FLATS 24 FED 010	Sampling Condition:	Cool & Intact
Project Number:	25A-03772	Sample Received By:	Alyssa Parras
Project Location:	EXXON MOBIL		

Sample ID: BH 25-05 @ 1.25' R (H254364-04)

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	07/23/2025	ND	2.05	102	2.00	3.46	
Toluene*	<0.050	0.050	07/23/2025	ND	2.05	103	2.00	3.59	
Ethylbenzene*	<0.050	0.050	07/23/2025	ND	2.06	103	2.00	3.11	
Total Xylenes*	<0.150	0.150	07/23/2025	ND	6.16	103	6.00	2.97	
Total BTEX	<0.300	0.300	07/23/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-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	07/22/2025	ND	480	120	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	07/23/2025	ND	214	107	200	0.866	
DRO >C10-C28*	<10.0	10.0	07/23/2025	ND	201	100	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	07/23/2025	ND					

Surrogate: 1-Chlorooctane 107 % 44.4-145

Surrogate: 1-Chlorooctadecane 107 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
** Samples not received at proper temperature of 6°C or below.
*** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Vertex Resource Services (Direct Bill to ExxonMobil)				BILL TO										ANALYSIS REQUEST											
Project Manager: Chad Hensley				P.O. #: 180841001										BTEX (8021) TPH:8015D(GRO / DRO / MIRO) Chloride											
Address: 3101 Boyd Drive				Company: ExxonMobil																					
City: Carlsbad State: NM Zip: 88220				Attn: Ashley McAfee																					
Phone #: 575.200.6167 Fax #:				Address: 3104 E. Green St.																					
Project #: 25A-03772 Project Owner: ExxonMobil				City: Carlsbad																					
Project Name: North Indian Flats 24 Fed 010				State: NM Zip: 88220																					
Project Location:				Phone #:																					
Sampler Name: A. Ludvik				Fax #:																					
FOR LAB USE ONLY																									
Lab I.D.		Sample I.D.										DATE		TIME											
H2543624																									
1 BH25-02 @ 4.0'		G 1										07.15.25		13:10		X X X									
2 BH25-04 @ 2.0'		G 1										07.15.25		13:25		X X X									
3 BH25-05 @ 0.0'		G 1										07.15.25		13:55		X X X									
4 BH25-05 @ 1.25' R		G 1										07.15.25		14:10		X X X									

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Relinquished By:		Date: 7.21.25	Received By:		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:		
Time: 1235				Please Email Results: Chad Hensley (chensley@vertexresource.com), Andrew Ludvik (aludvik@vertexresource.com), permian@vertexresource.com					
Relinquished By:		Date:	Received By:		REMARKS: Direct Bill to ExxonMobil WO#: 180841001				
Time:									
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. °C Corrected Temp. °C 1.10 1.9		Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No		CHECKED BY: (Initials) AP		Turnaround Time: Standard <input type="checkbox"/> Bacteria (only) Sample Condition <input checked="" type="checkbox"/>	
						Thermometer ID #140 Correction Factor -0.2°C +0.3		<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No Corrected Temp. °C	



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

July 24, 2025

CHAD HENSLEY
VERTEX RESOURCE
3101 BOYD DRIVE
CARLSBAD, NM 88220

RE: NORTH INDIAN FLATS 24 FED 010

Enclosed are the results of analyses for samples received by the laboratory on 07/21/25 12:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

VERTEX RESOURCE
 CHAD HENSLEY
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received:	07/21/2025	Sampling Date:	07/17/2025
Reported:	07/24/2025	Sampling Type:	Soil
Project Name:	NORTH INDIAN FLATS 24 FED 010	Sampling Condition:	Cool & Intact
Project Number:	25A-03772	Sample Received By:	Alyssa Parras
Project Location:	EXXON MOBIL		

Sample ID: BH 25-06 @ 0.0' (H254365-01)

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	07/23/2025	ND	2.05	102	2.00	3.46		
Toluene*	<0.050	0.050	07/23/2025	ND	2.05	103	2.00	3.59		
Ethylbenzene*	<0.050	0.050	07/23/2025	ND	2.06	103	2.00	3.11		
Total Xylenes*	<0.150	0.150	07/23/2025	ND	6.16	103	6.00	2.97		
Total BTEX	<0.300	0.300	07/23/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	07/22/2025	ND	480	120	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	07/23/2025	ND	214	107	200	0.866		
DRO >C10-C28*	<10.0	10.0	07/23/2025	ND	201	100	200	1.69		
EXT DRO >C28-C36	<10.0	10.0	07/23/2025	ND						

Surrogate: 1-Chlorooctane 102 % 44.4-145

Surrogate: 1-Chlorooctadecane 104 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
 CHAD HENSLEY
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received:	07/21/2025	Sampling Date:	07/17/2025
Reported:	07/24/2025	Sampling Type:	Soil
Project Name:	NORTH INDIAN FLATS 24 FED 010	Sampling Condition:	Cool & Intact
Project Number:	25A-03772	Sample Received By:	Alyssa Parras
Project Location:	EXXON MOBIL		

Sample ID: BH 25-06 @ 2.0' (H254365-02)

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	07/23/2025	ND	2.09	104	2.00	1.20	
Toluene*	<0.050	0.050	07/23/2025	ND	2.13	106	2.00	1.37	
Ethylbenzene*	<0.050	0.050	07/23/2025	ND	2.07	104	2.00	0.618	
Total Xylenes*	<0.150	0.150	07/23/2025	ND	6.08	101	6.00	0.542	
Total BTEX	<0.300	0.300	07/23/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.4 % 71.5-134

Chloride, SM4500CI-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	07/22/2025	ND	480	120	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	07/23/2025	ND	214	107	200	0.866	
DRO >C10-C28*	<10.0	10.0	07/23/2025	ND	201	100	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	07/23/2025	ND					

Surrogate: 1-Chlorooctane 106 % 44.4-145

Surrogate: 1-Chlorooctadecane 106 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
 CHAD HENSLEY
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received:	07/21/2025	Sampling Date:	07/17/2025
Reported:	07/24/2025	Sampling Type:	Soil
Project Name:	NORTH INDIAN FLATS 24 FED 010	Sampling Condition:	Cool & Intact
Project Number:	25A-03772	Sample Received By:	Alyssa Parras
Project Location:	EXXON MOBIL		

Sample ID: BH 25-09 @ 0.0' (H254365-03)

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	07/23/2025	ND	2.09	104	2.00	1.20	
Toluene*	<0.050	0.050	07/23/2025	ND	2.13	106	2.00	1.37	
Ethylbenzene*	<0.050	0.050	07/23/2025	ND	2.07	104	2.00	0.618	
Total Xylenes*	<0.150	0.150	07/23/2025	ND	6.08	101	6.00	0.542	
Total BTEX	<0.300	0.300	07/23/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	07/22/2025	ND	480	120	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	07/23/2025	ND	214	107	200	0.866	
DRO >C10-C28*	<10.0	10.0	07/23/2025	ND	201	100	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	07/23/2025	ND					

Surrogate: 1-Chlorooctane 102 % 44.4-145

Surrogate: 1-Chlorooctadecane 104 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
 CHAD HENSLEY
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received:	07/21/2025	Sampling Date:	07/17/2025
Reported:	07/24/2025	Sampling Type:	Soil
Project Name:	NORTH INDIAN FLATS 24 FED 010	Sampling Condition:	Cool & Intact
Project Number:	25A-03772	Sample Received By:	Alyssa Parras
Project Location:	EXXON MOBIL		

Sample ID: BH 25-09 @ 2.0' (H254365-04)

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	07/23/2025	ND	2.09	104	2.00	1.20	
Toluene*	<0.050	0.050	07/23/2025	ND	2.13	106	2.00	1.37	
Ethylbenzene*	<0.050	0.050	07/23/2025	ND	2.07	104	2.00	0.618	
Total Xylenes*	<0.150	0.150	07/23/2025	ND	6.08	101	6.00	0.542	
Total BTEX	<0.300	0.300	07/23/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	07/22/2025	ND	480	120	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	07/23/2025	ND	200	100	200	0.347	
DRO >C10-C28*	<10.0	10.0	07/23/2025	ND	193	96.7	200	0.386	
EXT DRO >C28-C36	<10.0	10.0	07/23/2025	ND					

Surrogate: 1-Chlorooctane 85.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 80.4 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
 CHAD HENSLEY
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received:	07/21/2025	Sampling Date:	07/17/2025
Reported:	07/24/2025	Sampling Type:	Soil
Project Name:	NORTH INDIAN FLATS 24 FED 010	Sampling Condition:	Cool & Intact
Project Number:	25A-03772	Sample Received By:	Alyssa Parras
Project Location:	EXXON MOBIL		

Sample ID: BH 25-10 @ 0.0' (H254365-05)

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	07/23/2025	ND	2.09	104	2.00	1.20	
Toluene*	<0.050	0.050	07/23/2025	ND	2.13	106	2.00	1.37	
Ethylbenzene*	<0.050	0.050	07/23/2025	ND	2.07	104	2.00	0.618	
Total Xylenes*	<0.150	0.150	07/23/2025	ND	6.08	101	6.00	0.542	
Total BTEX	<0.300	0.300	07/23/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.4 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/22/2025	ND	480	120	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	07/23/2025	ND	200	100	200	0.347	
DRO >C10-C28*	<10.0	10.0	07/23/2025	ND	193	96.7	200	0.386	
EXT DRO >C28-C36	<10.0	10.0	07/23/2025	ND					

Surrogate: 1-Chlorooctane 81.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 76.0 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
 CHAD HENSLEY
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received:	07/21/2025	Sampling Date:	07/17/2025
Reported:	07/24/2025	Sampling Type:	Soil
Project Name:	NORTH INDIAN FLATS 24 FED 010	Sampling Condition:	Cool & Intact
Project Number:	25A-03772	Sample Received By:	Alyssa Parras
Project Location:	EXXON MOBIL		

Sample ID: BH 25-10 @ 2.0' (H254365-06)

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	07/23/2025	ND	2.09	104	2.00	1.20	
Toluene*	<0.050	0.050	07/23/2025	ND	2.13	106	2.00	1.37	
Ethylbenzene*	<0.050	0.050	07/23/2025	ND	2.07	104	2.00	0.618	
Total Xylenes*	<0.150	0.150	07/23/2025	ND	6.08	101	6.00	0.542	
Total BTEX	<0.300	0.300	07/23/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/22/2025	ND	480	120	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	07/23/2025	ND	200	100	200	0.347	
DRO >C10-C28*	<10.0	10.0	07/23/2025	ND	193	96.7	200	0.386	
EXT DRO >C28-C36	<10.0	10.0	07/23/2025	ND					

Surrogate: 1-Chlorooctane 81.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 77.2 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

VERTEX RESOURCE
 CHAD HENSLEY
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received:	07/21/2025	Sampling Date:	07/17/2025
Reported:	07/24/2025	Sampling Type:	Soil
Project Name:	NORTH INDIAN FLATS 24 FED 010	Sampling Condition:	Cool & Intact
Project Number:	25A-03772	Sample Received By:	Alyssa Parras
Project Location:	EXXON MOBIL		

Sample ID: BH 25-11 @ 0.0' (H254365-07)

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	07/23/2025	ND	2.09	104	2.00	1.20	
Toluene*	<0.050	0.050	07/23/2025	ND	2.13	106	2.00	1.37	
Ethylbenzene*	<0.050	0.050	07/23/2025	ND	2.07	104	2.00	0.618	
Total Xylenes*	<0.150	0.150	07/23/2025	ND	6.08	101	6.00	0.542	
Total BTEX	<0.300	0.300	07/23/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.7 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/22/2025	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2025	ND	200	100	200	0.347	
DRO >C10-C28*	<10.0	10.0	07/23/2025	ND	193	96.7	200	0.386	
EXT DRO >C28-C36	<10.0	10.0	07/23/2025	ND					

Surrogate: 1-Chlorooctane 84.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 78.3 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
 CHAD HENSLEY
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received:	07/21/2025	Sampling Date:	07/17/2025
Reported:	07/24/2025	Sampling Type:	Soil
Project Name:	NORTH INDIAN FLATS 24 FED 010	Sampling Condition:	Cool & Intact
Project Number:	25A-03772	Sample Received By:	Alyssa Parras
Project Location:	EXXON MOBIL		

Sample ID: BH 25-11 @ 1.5'R (H254365-08)

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	07/23/2025	ND	2.09	104	2.00	1.20	
Toluene*	<0.050	0.050	07/23/2025	ND	2.13	106	2.00	1.37	
Ethylbenzene*	<0.050	0.050	07/23/2025	ND	2.07	104	2.00	0.618	
Total Xylenes*	<0.150	0.150	07/23/2025	ND	6.08	101	6.00	0.542	
Total BTEX	<0.300	0.300	07/23/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	07/22/2025	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2025	ND	200	100	200	0.347	
DRO >C10-C28*	<10.0	10.0	07/23/2025	ND	193	96.7	200	0.386	
EXT DRO >C28-C36	<10.0	10.0	07/23/2025	ND					

Surrogate: 1-Chlorooctane 77.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 72.2 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
** Samples not received at proper temperature of 6°C or below.
*** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Vertex Resource Services (Direct Bill to ExxonMobil)										BILL TO										ANALYSIS REQUEST																									
Project Manager: Chad Hensley										P.O. #: 180841001										BTEX (8021) TPH:8015D(GRO / DRO / MRO) Chloride																									
Address: 3101 Boyd Drive										Company: ExxonMobil																																			
City: Carlsbad State: NM Zip: 88220										Attn: Ashley Mcafee																																			
Phone #: 575.200.6167 Fax #:										Address: 3104 E. Green St.																																			
Project #: 25A-03772 Project Owner: ExxonMobil										City: Carlsbad																																			
Project Name: North Indian Flats 24 Fed 010										State: NM Zip: 88220																																			
Project Location:										Phone #:																																			
Sampler Name: A. Ludvik										Fax #:																																			
FOR LAB USE ONLY																																													
Lab I.D.					Sample I.D.										GIRAB OR (C)OMP		MATRIX										PRESERV.		SAMPLING																
H254365																																													
1					BH25-06 @ 0.0'										G 1																														
2					BH25-06 @ 2.0'										G 1																														
3					BH25-09 @ 0.0'										G 1																														
4					BH25-09 @ 2.0'										G 1																														
5					BH25-10 @ 0.0'										G 1																														
6					BH25-10 @ 2.0'										G 1																														
7					BH25-11 @ 0.0'										G 1																														
8					BH25-11 @ 1.5' R										G 1																														

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Relinquished By:					Date: 7.21.25 Time: 12:35					Received By:					Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:														
Relinquished By:					Date:					Received By:					Please Email Results: Chad Hensley (chensley@vertexresource.com), Andrew Ludvik (aludvik@vertexresource.com), permian@vertexresource.com REMARKS: Direct Bill to ExxonMobil WO#: 180841001														
Delivered By: (Circle One) Sampler - UPS - Bus - Other:					Observed Temp. °C: 1.0 Corrected Temp. °C: 1.9					Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					CHECKED BY: (Initials) AR					Turnover Time: Standard <input checked="" type="checkbox"/> Bacteria (only) Sample Condition <input type="checkbox"/> Cool Intact <input type="checkbox"/> Observed Temp. °C Thermometer ID: #113 #140 Correction Factor: -0.3°C <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No Corrected Temp. °C:									



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

July 24, 2025

CHAD HENSLEY
VERTEX RESOURCE
3101 BOYD DRIVE
CARLSBAD, NM 88220

RE: NORTH INDIAN FLATS 24 FED 010

Enclosed are the results of analyses for samples received by the laboratory on 07/21/25 12:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

VERTEX RESOURCE
 CHAD HENSLEY
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received:	07/21/2025	Sampling Date:	07/18/2025
Reported:	07/24/2025	Sampling Type:	Soil
Project Name:	NORTH INDIAN FLATS 24 FED 010	Sampling Condition:	Cool & Intact
Project Number:	25A-03772	Sample Received By:	Alyssa Parras
Project Location:	EXXON MOBIL		

Sample ID: BH 25-12 @ 0.0' (H254366-01)

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	07/23/2025	ND	2.09	104	2.00	1.20	
Toluene*	<0.050	0.050	07/23/2025	ND	2.13	106	2.00	1.37	
Ethylbenzene*	<0.050	0.050	07/23/2025	ND	2.07	104	2.00	0.618	
Total Xylenes*	<0.150	0.150	07/23/2025	ND	6.08	101	6.00	0.542	
Total BTEX	<0.300	0.300	07/23/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	07/22/2025	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2025	ND	200	100	200	0.347	
DRO >C10-C28*	<10.0	10.0	07/23/2025	ND	193	96.7	200	0.386	
EXT DRO >C28-C36	<10.0	10.0	07/23/2025	ND					

Surrogate: 1-Chlorooctane 80.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 75.9 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
 CHAD HENSLEY
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received:	07/21/2025	Sampling Date:	07/18/2025
Reported:	07/24/2025	Sampling Type:	Soil
Project Name:	NORTH INDIAN FLATS 24 FED 010	Sampling Condition:	Cool & Intact
Project Number:	25A-03772	Sample Received By:	Alyssa Parras
Project Location:	EXXON MOBIL		

Sample ID: BH 25-12 @ 1.5' R (H254366-02)

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	07/23/2025	ND	2.09	104	2.00	1.20	
Toluene*	<0.050	0.050	07/23/2025	ND	2.13	106	2.00	1.37	
Ethylbenzene*	<0.050	0.050	07/23/2025	ND	2.07	104	2.00	0.618	
Total Xylenes*	<0.150	0.150	07/23/2025	ND	6.08	101	6.00	0.542	
Total BTEX	<0.300	0.300	07/23/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.0 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	07/22/2025	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2025	ND	200	100	200	0.347	
DRO >C10-C28*	<10.0	10.0	07/23/2025	ND	193	96.7	200	0.386	
EXT DRO >C28-C36	<10.0	10.0	07/23/2025	ND					

Surrogate: 1-Chlorooctane 82.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 79.8 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

VERTEX RESOURCE
 CHAD HENSLEY
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received:	07/21/2025	Sampling Date:	07/18/2025
Reported:	07/24/2025	Sampling Type:	Soil
Project Name:	NORTH INDIAN FLATS 24 FED 010	Sampling Condition:	Cool & Intact
Project Number:	25A-03772	Sample Received By:	Alyssa Parras
Project Location:	EXXON MOBIL		

Sample ID: BH 25-13 @ 0.0' (H254366-03)

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	07/23/2025	ND	2.09	104	2.00	1.20	
Toluene*	<0.050	0.050	07/23/2025	ND	2.13	106	2.00	1.37	
Ethylbenzene*	<0.050	0.050	07/23/2025	ND	2.07	104	2.00	0.618	
Total Xylenes*	<0.150	0.150	07/23/2025	ND	6.08	101	6.00	0.542	
Total BTEX	<0.300	0.300	07/23/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	07/22/2025	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2025	ND	200	100	200	0.347	
DRO >C10-C28*	<10.0	10.0	07/23/2025	ND	193	96.7	200	0.386	
EXT DRO >C28-C36	<10.0	10.0	07/23/2025	ND					

Surrogate: 1-Chlorooctane 84.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 79.3 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
 CHAD HENSLEY
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received:	07/21/2025	Sampling Date:	07/18/2025
Reported:	07/24/2025	Sampling Type:	Soil
Project Name:	NORTH INDIAN FLATS 24 FED 010	Sampling Condition:	Cool & Intact
Project Number:	25A-03772	Sample Received By:	Alyssa Parras
Project Location:	EXXON MOBIL		

Sample ID: BH 25-13 @ 2.0' (H254366-04)

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	07/23/2025	ND	2.09	104	2.00	1.20	
Toluene*	<0.050	0.050	07/23/2025	ND	2.13	106	2.00	1.37	
Ethylbenzene*	<0.050	0.050	07/23/2025	ND	2.07	104	2.00	0.618	
Total Xylenes*	<0.150	0.150	07/23/2025	ND	6.08	101	6.00	0.542	
Total BTEX	<0.300	0.300	07/23/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.0 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	07/22/2025	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2025	ND	200	100	200	0.347	
DRO >C10-C28*	<10.0	10.0	07/23/2025	ND	193	96.7	200	0.386	
EXT DRO >C28-C36	<10.0	10.0	07/23/2025	ND					

Surrogate: 1-Chlorooctane 86.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 83.2 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

VERTEX RESOURCE
 CHAD HENSLEY
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received:	07/21/2025	Sampling Date:	07/18/2025
Reported:	07/24/2025	Sampling Type:	Soil
Project Name:	NORTH INDIAN FLATS 24 FED 010	Sampling Condition:	Cool & Intact
Project Number:	25A-03772	Sample Received By:	Alyssa Parras
Project Location:	EXXON MOBIL		

Sample ID: BH 25-14 @ 0.0' (H254366-05)

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	07/23/2025	ND	2.09	104	2.00	1.20	
Toluene*	<0.050	0.050	07/23/2025	ND	2.13	106	2.00	1.37	
Ethylbenzene*	<0.050	0.050	07/23/2025	ND	2.07	104	2.00	0.618	
Total Xylenes*	<0.150	0.150	07/23/2025	ND	6.08	101	6.00	0.542	
Total BTEX	<0.300	0.300	07/23/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.7 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/22/2025	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2025	ND	200	100	200	0.347	
DRO >C10-C28*	<10.0	10.0	07/23/2025	ND	193	96.7	200	0.386	
EXT DRO >C28-C36	<10.0	10.0	07/23/2025	ND					

Surrogate: 1-Chlorooctane 82.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 77.1 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

VERTEX RESOURCE
 CHAD HENSLEY
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received:	07/21/2025	Sampling Date:	07/18/2025
Reported:	07/24/2025	Sampling Type:	Soil
Project Name:	NORTH INDIAN FLATS 24 FED 010	Sampling Condition:	Cool & Intact
Project Number:	25A-03772	Sample Received By:	Alyssa Parras
Project Location:	EXXON MOBIL		

Sample ID: BH 25-14 @ 2.0' (H254366-06)

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	07/23/2025	ND	2.09	104	2.00	1.20	
Toluene*	<0.050	0.050	07/23/2025	ND	2.13	106	2.00	1.37	
Ethylbenzene*	<0.050	0.050	07/23/2025	ND	2.07	104	2.00	0.618	
Total Xylenes*	<0.150	0.150	07/23/2025	ND	6.08	101	6.00	0.542	
Total BTEX	<0.300	0.300	07/23/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.7 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/22/2025	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2025	ND	200	100	200	0.347	
DRO >C10-C28*	<10.0	10.0	07/23/2025	ND	193	96.7	200	0.386	
EXT DRO >C28-C36	<10.0	10.0	07/23/2025	ND					

Surrogate: 1-Chlorooctane 86.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 80.7 % 40.6-153

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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

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Vertex Resource Services (Direct Bill to ExxonMobil)				BILL TO				ANALYSIS REQUEST															
Project Manager: Chad Hensley				P.O. #: 180841001				BTEX (8021) TPH:801SD/GRO / DRO / MIRO Chloride															
Address: 3101 Boyd Drive				Company: ExxonMobil																			
City: Carlsbad		State: NM		Zip: 88220		Attn: Ashley McAfee																	
Phone #: 575.200.6167		Fax #:		Address: 3104 E. Green St.																			
Project #: 25A-03772		Project Owner: ExxonMobil		City: Carlsbad																			
Project Name: North Indian Flats 24 Fed 010				State: NM																Zip: 88220			
Project Location:				Phone #:																			
Sampler Name: A. Ludvik				Fax #:																			
FOR LAB USE ONLY																							
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	MATRIX																PRESERV.		SAMPLING	
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE	TIME									
H2543166	1 BH25-12 @ 0.0'	G	1		X						X		07.18.25	9:15	X	X	X						
	2 BH25-12 @ 1.5' R	G	1		X						X		07.18.25	9:30	X	X	X						
	3 BH25-13 @ 0.0'	G	1		X						X		07.18.25	10:30	X	X	X						
	4 BH25-13 @ 2.0'	G	1		X						X		07.18.25	10:45	X	X	X						
	5 BH25-14 @ 0.0'	G	1		X						X		07.18.25	13:00	X	X	X						
	6 BH25-14 @ 2.0'	G	1		X						X		07.18.25	13:15	X	X	X						

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Relinquished By:	Date: 7.21.25 Time: 1235	Received By:	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:	
Relinquished By:	Date:	Received By:	Please Email Results: Chad Hensley (chensley@vertexresource.com), Andrew Ludvik (aludvik@vertexresource.com), permian@vertexresource.com		
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C Corrected Temp. °C 1.6i 1.0i	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No	CHECKED BY: (Initials) 	REMARKS: Direct Bill to ExxonMobil WO#: 180841001	
			Turnaround Time: Standard <input checked="" type="checkbox"/> Bacteria (only) Sample Condition		
			Thermometer ID: #113 Correction Factor: -0.3°C	<input type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No Corrected Temp. °C	



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

August 13, 2025

CHAD HENSLEY
VERTEX RESOURCE
3101 BOYD DRIVE
CARLSBAD, NM 88220

RE: NORTH INDIAN FLATS 24 FED 010

Enclosed are the results of analyses for samples received by the laboratory on 08/07/25 14:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

VERTEX RESOURCE
 CHAD HENSLEY
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received:	08/07/2025	Sampling Date:	08/01/2025
Reported:	08/13/2025	Sampling Type:	Soil
Project Name:	NORTH INDIAN FLATS 24 FED 010	Sampling Condition:	Cool & Intact
Project Number:	25A-03772	Sample Received By:	Tamara Oldaker
Project Location:	EXXON MOBIL		

Sample ID: BS 25 - 13 @ 2' (H254856-01)

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	08/08/2025	ND	1.87	93.5	2.00	4.70		
Toluene*	<0.050	0.050	08/08/2025	ND	1.58	79.0	2.00	16.5		
Ethylbenzene*	<0.050	0.050	08/08/2025	ND	1.58	79.2	2.00	16.8		
Total Xylenes*	<0.150	0.150	08/08/2025	ND	5.74	95.6	6.00	3.45		
Total BTEX	<0.300	0.300	08/08/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	08/08/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/08/2025	ND	196	97.8	200	0.144		
DRO >C10-C28*	28.8	10.0	08/08/2025	ND	215	108	200	4.83		
EXT DRO >C28-C36	<10.0	10.0	08/08/2025	ND						

Surrogate: 1-Chlorooctane 64.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 69.8 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
 CHAD HENSLEY
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received:	08/07/2025	Sampling Date:	08/01/2025
Reported:	08/13/2025	Sampling Type:	Soil
Project Name:	NORTH INDIAN FLATS 24 FED 010	Sampling Condition:	Cool & Intact
Project Number:	25A-03772	Sample Received By:	Tamara Oldaker
Project Location:	EXXON MOBIL		

Sample ID: BS 25 - 14 @ 2' (H254856-02)

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	08/08/2025	ND	1.87	93.5	2.00	4.70		
Toluene*	<0.050	0.050	08/08/2025	ND	1.58	79.0	2.00	16.5		
Ethylbenzene*	<0.050	0.050	08/08/2025	ND	1.58	79.2	2.00	16.8		
Total Xylenes*	<0.150	0.150	08/08/2025	ND	5.74	95.6	6.00	3.45		
Total BTEX	<0.300	0.300	08/08/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.4 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	08/08/2025	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	08/08/2025	ND	196	97.8	200	0.144		
DRO >C10-C28*	<10.0	10.0	08/08/2025	ND	215	108	200	4.83		
EXT DRO >C28-C36	<10.0	10.0	08/08/2025	ND						

Surrogate: 1-Chlorooctane 66.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 68.6 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
 CHAD HENSLEY
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received:	08/07/2025	Sampling Date:	08/01/2025
Reported:	08/13/2025	Sampling Type:	Soil
Project Name:	NORTH INDIAN FLATS 24 FED 010	Sampling Condition:	Cool & Intact
Project Number:	25A-03772	Sample Received By:	Tamara Oldaker
Project Location:	EXXON MOBIL		

Sample ID: BS 25 - 15 @ 2' (H254856-03)

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	08/08/2025	ND	1.87	93.5	2.00	4.70		
Toluene*	<0.050	0.050	08/08/2025	ND	1.58	79.0	2.00	16.5		
Ethylbenzene*	<0.050	0.050	08/08/2025	ND	1.58	79.2	2.00	16.8		
Total Xylenes*	<0.150	0.150	08/08/2025	ND	5.74	95.6	6.00	3.45		
Total BTEX	<0.300	0.300	08/08/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.4 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	08/08/2025	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	08/08/2025	ND	196	97.8	200	0.144		
DRO >C10-C28*	<10.0	10.0	08/08/2025	ND	215	108	200	4.83		
EXT DRO >C28-C36	<10.0	10.0	08/08/2025	ND						

Surrogate: 1-Chlorooctane 78.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 80.9 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
 CHAD HENSLEY
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received:	08/07/2025	Sampling Date:	08/01/2025
Reported:	08/13/2025	Sampling Type:	Soil
Project Name:	NORTH INDIAN FLATS 24 FED 010	Sampling Condition:	Cool & Intact
Project Number:	25A-03772	Sample Received By:	Tamara Oldaker
Project Location:	EXXON MOBIL		

Sample ID: BS 25 - 16 @ 2' (H254856-04)

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	08/08/2025	ND	1.87	93.5	2.00	4.70		
Toluene*	<0.050	0.050	08/08/2025	ND	1.58	79.0	2.00	16.5		
Ethylbenzene*	<0.050	0.050	08/08/2025	ND	1.58	79.2	2.00	16.8		
Total Xylenes*	<0.150	0.150	08/08/2025	ND	5.74	95.6	6.00	3.45		
Total BTEX	<0.300	0.300	08/08/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.4 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	08/08/2025	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	08/08/2025	ND	196	97.8	200	0.144		
DRO >C10-C28*	20.1	10.0	08/08/2025	ND	215	108	200	4.83		
EXT DRO >C28-C36	<10.0	10.0	08/08/2025	ND						

Surrogate: 1-Chlorooctane 84.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 88.4 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

VERTEX RESOURCE
 CHAD HENSLEY
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received:	08/07/2025	Sampling Date:	08/01/2025
Reported:	08/13/2025	Sampling Type:	Soil
Project Name:	NORTH INDIAN FLATS 24 FED 010	Sampling Condition:	Cool & Intact
Project Number:	25A-03772	Sample Received By:	Tamara Oldaker
Project Location:	EXXON MOBIL		

Sample ID: BS 25 - 17 @ 2' (H254856-05)

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	08/08/2025	ND	1.87	93.5	2.00	4.70		
Toluene*	<0.050	0.050	08/08/2025	ND	1.58	79.0	2.00	16.5		
Ethylbenzene*	<0.050	0.050	08/08/2025	ND	1.58	79.2	2.00	16.8		
Total Xylenes*	<0.150	0.150	08/08/2025	ND	5.74	95.6	6.00	3.45		
Total BTEX	<0.300	0.300	08/08/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.4 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	08/08/2025	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	08/08/2025	ND	196	97.8	200	0.144		
DRO >C10-C28*	28.4	10.0	08/08/2025	ND	215	108	200	4.83		
EXT DRO >C28-C36	<10.0	10.0	08/08/2025	ND						

Surrogate: 1-Chlorooctane 73.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 77.3 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

VERTEX RESOURCE
 CHAD HENSLEY
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received:	08/07/2025	Sampling Date:	08/01/2025
Reported:	08/13/2025	Sampling Type:	Soil
Project Name:	NORTH INDIAN FLATS 24 FED 010	Sampling Condition:	Cool & Intact
Project Number:	25A-03772	Sample Received By:	Tamara Oldaker
Project Location:	EXXON MOBIL		

Sample ID: BS 25 - 18 @ 2' (H254856-06)

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	08/08/2025	ND	1.87	93.5	2.00	4.70		
Toluene*	<0.050	0.050	08/08/2025	ND	1.58	79.0	2.00	16.5		
Ethylbenzene*	<0.050	0.050	08/08/2025	ND	1.58	79.2	2.00	16.8		
Total Xylenes*	<0.150	0.150	08/08/2025	ND	5.74	95.6	6.00	3.45		
Total BTEX	<0.300	0.300	08/08/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.1 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	08/08/2025	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	08/08/2025	ND	196	97.8	200	0.144		
DRO >C10-C28*	<10.0	10.0	08/08/2025	ND	215	108	200	4.83		
EXT DRO >C28-C36	<10.0	10.0	08/08/2025	ND						

Surrogate: 1-Chlorooctane 89.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 92.5 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
 CHAD HENSLEY
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received:	08/07/2025	Sampling Date:	08/01/2025
Reported:	08/13/2025	Sampling Type:	Soil
Project Name:	NORTH INDIAN FLATS 24 FED 010	Sampling Condition:	Cool & Intact
Project Number:	25A-03772	Sample Received By:	Tamara Oldaker
Project Location:	EXXON MOBIL		

Sample ID: BS 25 - 19 @ 2' (H254856-07)

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	08/08/2025	ND	1.87	93.5	2.00	4.70		
Toluene*	<0.050	0.050	08/08/2025	ND	1.58	79.0	2.00	16.5		
Ethylbenzene*	<0.050	0.050	08/08/2025	ND	1.58	79.2	2.00	16.8		
Total Xylenes*	<0.150	0.150	08/08/2025	ND	5.74	95.6	6.00	3.45		
Total BTEX	<0.300	0.300	08/08/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/08/2025	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	08/08/2025	ND	196	97.8	200	0.144		
DRO >C10-C28*	<10.0	10.0	08/08/2025	ND	215	108	200	4.83		
EXT DRO >C28-C36	<10.0	10.0	08/08/2025	ND						

Surrogate: 1-Chlorooctane 88.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 90.7 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
 CHAD HENSLEY
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received:	08/07/2025	Sampling Date:	08/01/2025
Reported:	08/13/2025	Sampling Type:	Soil
Project Name:	NORTH INDIAN FLATS 24 FED 010	Sampling Condition:	Cool & Intact
Project Number:	25A-03772	Sample Received By:	Tamara Oldaker
Project Location:	EXXON MOBIL		

Sample ID: BS 25 - 20 @ 2' (H254856-08)

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	08/08/2025	ND	1.87	93.5	2.00	4.70		
Toluene*	<0.050	0.050	08/08/2025	ND	1.58	79.0	2.00	16.5		
Ethylbenzene*	<0.050	0.050	08/08/2025	ND	1.58	79.2	2.00	16.8		
Total Xylenes*	<0.150	0.150	08/08/2025	ND	5.74	95.6	6.00	3.45		
Total BTEX	<0.300	0.300	08/08/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.7 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/08/2025	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	08/08/2025	ND	196	97.8	200	0.144		
DRO >C10-C28*	<10.0	10.0	08/08/2025	ND	215	108	200	4.83		
EXT DRO >C28-C36	<10.0	10.0	08/08/2025	ND						

Surrogate: 1-Chlorooctane 87.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 90.2 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
 CHAD HENSLEY
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received:	08/07/2025	Sampling Date:	08/01/2025
Reported:	08/13/2025	Sampling Type:	Soil
Project Name:	NORTH INDIAN FLATS 24 FED 010	Sampling Condition:	Cool & Intact
Project Number:	25A-03772	Sample Received By:	Tamara Oldaker
Project Location:	EXXON MOBIL		

Sample ID: BS 25 - 21 @ 2' (H254856-09)

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	08/08/2025	ND	1.87	93.5	2.00	4.70		
Toluene*	<0.050	0.050	08/08/2025	ND	1.58	79.0	2.00	16.5		
Ethylbenzene*	<0.050	0.050	08/08/2025	ND	1.58	79.2	2.00	16.8		
Total Xylenes*	<0.150	0.150	08/08/2025	ND	5.74	95.6	6.00	3.45		
Total BTEX	<0.300	0.300	08/08/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/08/2025	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	08/08/2025	ND	196	97.8	200	0.144		
DRO >C10-C28*	<10.0	10.0	08/08/2025	ND	215	108	200	4.83		
EXT DRO >C28-C36	<10.0	10.0	08/08/2025	ND						

Surrogate: 1-Chlorooctane 66.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 69.5 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
 CHAD HENSLEY
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received:	08/07/2025	Sampling Date:	08/01/2025
Reported:	08/13/2025	Sampling Type:	Soil
Project Name:	NORTH INDIAN FLATS 24 FED 010	Sampling Condition:	Cool & Intact
Project Number:	25A-03772	Sample Received By:	Tamara Oldaker
Project Location:	EXXON MOBIL		

Sample ID: BS 25 - 22 @ 2' (H254856-10)

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	08/08/2025	ND	1.87	93.5	2.00	4.70		
Toluene*	<0.050	0.050	08/08/2025	ND	1.58	79.0	2.00	16.5		
Ethylbenzene*	<0.050	0.050	08/08/2025	ND	1.58	79.2	2.00	16.8		
Total Xylenes*	<0.150	0.150	08/08/2025	ND	5.74	95.6	6.00	3.45		
Total BTEX	<0.300	0.300	08/08/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	08/08/2025	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	08/08/2025	ND	196	97.8	200	0.144		
DRO >C10-C28*	<10.0	10.0	08/08/2025	ND	215	108	200	4.83		
EXT DRO >C28-C36	<10.0	10.0	08/08/2025	ND						

Surrogate: 1-Chlorooctane 77.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 78.7 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
 CHAD HENSLEY
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received:	08/07/2025	Sampling Date:	08/04/2025
Reported:	08/13/2025	Sampling Type:	Soil
Project Name:	NORTH INDIAN FLATS 24 FED 010	Sampling Condition:	Cool & Intact
Project Number:	25A-03772	Sample Received By:	Tamara Oldaker
Project Location:	EXXON MOBIL		

Sample ID: BS 25 - 01 @ 3' (H254856-11)

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	08/08/2025	ND	1.87	93.5	2.00	4.70		
Toluene*	<0.050	0.050	08/08/2025	ND	1.58	79.0	2.00	16.5		
Ethylbenzene*	<0.050	0.050	08/08/2025	ND	1.58	79.2	2.00	16.8		
Total Xylenes*	<0.150	0.150	08/08/2025	ND	5.74	95.6	6.00	3.45		
Total BTEX	<0.300	0.300	08/08/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.7 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	08/08/2025	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	08/08/2025	ND	196	97.8	200	0.144		
DRO >C10-C28*	<10.0	10.0	08/08/2025	ND	215	108	200	4.83		
EXT DRO >C28-C36	<10.0	10.0	08/08/2025	ND						

Surrogate: 1-Chlorooctane 82.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 84.9 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
 CHAD HENSLEY
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received:	08/07/2025	Sampling Date:	08/04/2025
Reported:	08/13/2025	Sampling Type:	Soil
Project Name:	NORTH INDIAN FLATS 24 FED 010	Sampling Condition:	Cool & Intact
Project Number:	25A-03772	Sample Received By:	Tamara Oldaker
Project Location:	EXXON MOBIL		

Sample ID: BS 25 - 02 @ 3' (H254856-12)

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	08/08/2025	ND	1.87	93.5	2.00	4.70		
Toluene*	<0.050	0.050	08/08/2025	ND	1.58	79.0	2.00	16.5		
Ethylbenzene*	<0.050	0.050	08/08/2025	ND	1.58	79.2	2.00	16.8		
Total Xylenes*	<0.150	0.150	08/08/2025	ND	5.74	95.6	6.00	3.45		
Total BTEX	<0.300	0.300	08/08/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	08/08/2025	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	08/08/2025	ND	196	97.8	200	0.144		
DRO >C10-C28*	17.5	10.0	08/08/2025	ND	215	108	200	4.83		
EXT DRO >C28-C36	<10.0	10.0	08/08/2025	ND						

Surrogate: 1-Chlorooctane 81.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 84.4 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
 CHAD HENSLEY
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received:	08/07/2025	Sampling Date:	08/04/2025
Reported:	08/13/2025	Sampling Type:	Soil
Project Name:	NORTH INDIAN FLATS 24 FED 010	Sampling Condition:	Cool & Intact
Project Number:	25A-03772	Sample Received By:	Tamara Oldaker
Project Location:	EXXON MOBIL		

Sample ID: BS 25 - 03 @ 3' (H254856-13)

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	08/08/2025	ND	1.87	93.5	2.00	4.70		
Toluene*	<0.050	0.050	08/08/2025	ND	1.58	79.0	2.00	16.5		
Ethylbenzene*	<0.050	0.050	08/08/2025	ND	1.58	79.2	2.00	16.8		
Total Xylenes*	<0.150	0.150	08/08/2025	ND	5.74	95.6	6.00	3.45		
Total BTEX	<0.300	0.300	08/08/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.1 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	08/08/2025	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	08/08/2025	ND	196	97.8	200	0.144		
DRO >C10-C28*	<10.0	10.0	08/08/2025	ND	215	108	200	4.83		
EXT DRO >C28-C36	<10.0	10.0	08/08/2025	ND						

Surrogate: 1-Chlorooctane 76.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 79.4 % 40.6-153

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Analytical Results For:

VERTEX RESOURCE
 CHAD HENSLEY
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received:	08/07/2025	Sampling Date:	08/04/2025
Reported:	08/13/2025	Sampling Type:	Soil
Project Name:	NORTH INDIAN FLATS 24 FED 010	Sampling Condition:	Cool & Intact
Project Number:	25A-03772	Sample Received By:	Tamara Oldaker
Project Location:	EXXON MOBIL		

Sample ID: WS 25 - 01 @ 0-3' (H254856-14)

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	08/08/2025	ND	1.87	93.5	2.00	4.70	
Toluene*	<0.050	0.050	08/08/2025	ND	1.58	79.0	2.00	16.5	
Ethylbenzene*	<0.050	0.050	08/08/2025	ND	1.58	79.2	2.00	16.8	
Total Xylenes*	<0.150	0.150	08/08/2025	ND	5.74	95.6	6.00	3.45	
Total BTEX	<0.300	0.300	08/08/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.0 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	08/08/2025	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	08/08/2025	ND	196	97.8	200	0.144	
DRO >C10-C28*	<10.0	10.0	08/08/2025	ND	215	108	200	4.83	
EXT DRO >C28-C36	<10.0	10.0	08/08/2025	ND					

Surrogate: 1-Chlorooctane 82.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 83.7 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
 CHAD HENSLEY
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received:	08/07/2025	Sampling Date:	08/04/2025
Reported:	08/13/2025	Sampling Type:	Soil
Project Name:	NORTH INDIAN FLATS 24 FED 010	Sampling Condition:	Cool & Intact
Project Number:	25A-03772	Sample Received By:	Tamara Oldaker
Project Location:	EXXON MOBIL		

Sample ID: WS 25 - 02 @ 0-3' (H254856-15)

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	08/08/2025	ND	1.87	93.5	2.00	4.70	
Toluene*	<0.050	0.050	08/08/2025	ND	1.58	79.0	2.00	16.5	
Ethylbenzene*	<0.050	0.050	08/08/2025	ND	1.58	79.2	2.00	16.8	
Total Xylenes*	<0.150	0.150	08/08/2025	ND	5.74	95.6	6.00	3.45	
Total BTEX	<0.300	0.300	08/08/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.2 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	08/08/2025	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	08/08/2025	ND	196	97.8	200	0.144	
DRO >C10-C28*	40.4	10.0	08/08/2025	ND	215	108	200	4.83	
EXT DRO >C28-C36	<10.0	10.0	08/08/2025	ND					

Surrogate: 1-Chlorooctane 82.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 86.3 % 40.6-153

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Analytical Results For:

VERTEX RESOURCE
 CHAD HENSLEY
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received:	08/07/2025	Sampling Date:	08/04/2025
Reported:	08/13/2025	Sampling Type:	Soil
Project Name:	NORTH INDIAN FLATS 24 FED 010	Sampling Condition:	Cool & Intact
Project Number:	25A-03772	Sample Received By:	Tamara Oldaker
Project Location:	EXXON MOBIL		

Sample ID: WS 25 - 05 @ 0-4' (H254856-16)

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	08/08/2025	ND	1.87	93.5	2.00	4.70	
Toluene*	<0.050	0.050	08/08/2025	ND	1.58	79.0	2.00	16.5	
Ethylbenzene*	<0.050	0.050	08/08/2025	ND	1.58	79.2	2.00	16.8	
Total Xylenes*	<0.150	0.150	08/08/2025	ND	5.74	95.6	6.00	3.45	
Total BTEX	<0.300	0.300	08/08/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.1 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	08/08/2025	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	08/08/2025	ND	211	105	200	0.401	
DRO >C10-C28*	<10.0	10.0	08/08/2025	ND	220	110	200	0.342	
EXT DRO >C28-C36	<10.0	10.0	08/08/2025	ND					

Surrogate: 1-Chlorooctane 74.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 74.6 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
 CHAD HENSLEY
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received:	08/07/2025	Sampling Date:	08/04/2025
Reported:	08/13/2025	Sampling Type:	Soil
Project Name:	NORTH INDIAN FLATS 24 FED 010	Sampling Condition:	Cool & Intact
Project Number:	25A-03772	Sample Received By:	Tamara Oldaker
Project Location:	EXXON MOBIL		

Sample ID: WS 25 - 06 @ 0-4' (H254856-17)

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	08/08/2025	ND	1.87	93.5	2.00	4.70	
Toluene*	<0.050	0.050	08/08/2025	ND	1.58	79.0	2.00	16.5	
Ethylbenzene*	<0.050	0.050	08/08/2025	ND	1.58	79.2	2.00	16.8	
Total Xylenes*	<0.150	0.150	08/08/2025	ND	5.74	95.6	6.00	3.45	
Total BTEX	<0.300	0.300	08/08/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.4 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	08/08/2025	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	08/08/2025	ND	211	105	200	0.401	
DRO >C10-C28*	<10.0	10.0	08/08/2025	ND	220	110	200	0.342	
EXT DRO >C28-C36	<10.0	10.0	08/08/2025	ND					

Surrogate: 1-Chlorooctane 83.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 84.1 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
 CHAD HENSLEY
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received:	08/07/2025	Sampling Date:	08/04/2025
Reported:	08/13/2025	Sampling Type:	Soil
Project Name:	NORTH INDIAN FLATS 24 FED 010	Sampling Condition:	Cool & Intact
Project Number:	25A-03772	Sample Received By:	Tamara Oldaker
Project Location:	EXXON MOBIL		

Sample ID: WS 25 - 07 @ 0-4' (H254856-18)

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	08/08/2025	ND	1.87	93.5	2.00	4.70	
Toluene*	<0.050	0.050	08/08/2025	ND	1.58	79.0	2.00	16.5	
Ethylbenzene*	<0.050	0.050	08/08/2025	ND	1.58	79.2	2.00	16.8	
Total Xylenes*	<0.150	0.150	08/08/2025	ND	5.74	95.6	6.00	3.45	
Total BTEX	<0.300	0.300	08/08/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.1 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	08/08/2025	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	08/08/2025	ND	211	105	200	0.401	
DRO >C10-C28*	49.1	10.0	08/08/2025	ND	220	110	200	0.342	
EXT DRO >C28-C36	<10.0	10.0	08/08/2025	ND					

Surrogate: 1-Chlorooctane 88.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 92.0 % 40.6-153

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Analytical Results For:

VERTEX RESOURCE
 CHAD HENSLEY
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received:	08/07/2025	Sampling Date:	08/04/2025
Reported:	08/13/2025	Sampling Type:	Soil
Project Name:	NORTH INDIAN FLATS 24 FED 010	Sampling Condition:	Cool & Intact
Project Number:	25A-03772	Sample Received By:	Tamara Oldaker
Project Location:	EXXON MOBIL		

Sample ID: WS 25 - 08 @ 0-4' (H254856-19)

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	08/08/2025	ND	1.87	93.5	2.00	4.70	
Toluene*	<0.050	0.050	08/08/2025	ND	1.58	79.0	2.00	16.5	
Ethylbenzene*	<0.050	0.050	08/08/2025	ND	1.58	79.2	2.00	16.8	
Total Xylenes*	<0.150	0.150	08/08/2025	ND	5.74	95.6	6.00	3.45	
Total BTEX	<0.300	0.300	08/08/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.1 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/08/2025	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	08/08/2025	ND	211	105	200	0.401	
DRO >C10-C28*	<10.0	10.0	08/08/2025	ND	220	110	200	0.342	
EXT DRO >C28-C36	<10.0	10.0	08/08/2025	ND					

Surrogate: 1-Chlorooctane 96.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 96.9 % 40.6-153

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Analytical Results For:

VERTEX RESOURCE
 CHAD HENSLEY
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received:	08/07/2025	Sampling Date:	08/01/2025
Reported:	08/13/2025	Sampling Type:	Soil
Project Name:	NORTH INDIAN FLATS 24 FED 010	Sampling Condition:	Cool & Intact
Project Number:	25A-03772	Sample Received By:	Tamara Oldaker
Project Location:	EXXON MOBIL		

Sample ID: BS 25 - 23 @ 2' (H254856-20)

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	08/08/2025	ND	1.86	92.9	2.00	5.01		
Toluene*	<0.050	0.050	08/08/2025	ND	1.89	94.4	2.00	4.18		
Ethylbenzene*	<0.050	0.050	08/08/2025	ND	1.91	95.5	2.00	3.98	QM-07	
Total Xylenes*	<0.150	0.150	08/08/2025	ND	5.75	95.8	6.00	3.22	QM-07	
Total BTEX	<0.300	0.300	08/08/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	08/08/2025	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	08/08/2025	ND	211	105	200	0.401		
DRO >C10-C28*	<10.0	10.0	08/08/2025	ND	220	110	200	0.342		
EXT DRO >C28-C36	<10.0	10.0	08/08/2025	ND						

Surrogate: 1-Chlorooctane 86.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 87.0 % 40.6-153

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Analytical Results For:

VERTEX RESOURCE
 CHAD HENSLEY
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received:	08/07/2025	Sampling Date:	08/01/2025
Reported:	08/13/2025	Sampling Type:	Soil
Project Name:	NORTH INDIAN FLATS 24 FED 010	Sampling Condition:	Cool & Intact
Project Number:	25A-03772	Sample Received By:	Tamara Oldaker
Project Location:	EXXON MOBIL		

Sample ID: BS 25 - 24 @ 2' (H254856-21)

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	08/08/2025	ND	1.86	92.9	2.00	5.01		
Toluene*	<0.050	0.050	08/08/2025	ND	1.89	94.4	2.00	4.18		
Ethylbenzene*	<0.050	0.050	08/08/2025	ND	1.91	95.5	2.00	3.98		
Total Xylenes*	<0.150	0.150	08/08/2025	ND	5.75	95.8	6.00	3.22		
Total BTEX	<0.300	0.300	08/08/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	08/08/2025	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	08/08/2025	ND	211	105	200	0.401		
DRO >C10-C28*	<10.0	10.0	08/08/2025	ND	220	110	200	0.342		
EXT DRO >C28-C36	<10.0	10.0	08/08/2025	ND						

Surrogate: 1-Chlorooctane 89.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 90.1 % 40.6-153

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Analytical Results For:

VERTEX RESOURCE
 CHAD HENSLEY
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received:	08/07/2025	Sampling Date:	08/01/2025
Reported:	08/13/2025	Sampling Type:	Soil
Project Name:	NORTH INDIAN FLATS 24 FED 010	Sampling Condition:	Cool & Intact
Project Number:	25A-03772	Sample Received By:	Tamara Oldaker
Project Location:	EXXON MOBIL		

Sample ID: BS 25 - 25 @ 2' (H254856-22)

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	08/08/2025	ND	1.86	92.9	2.00	5.01		
Toluene*	<0.050	0.050	08/08/2025	ND	1.89	94.4	2.00	4.18		
Ethylbenzene*	<0.050	0.050	08/08/2025	ND	1.91	95.5	2.00	3.98		
Total Xylenes*	<0.150	0.150	08/08/2025	ND	5.75	95.8	6.00	3.22		
Total BTEX	<0.300	0.300	08/08/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	08/08/2025	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	08/08/2025	ND	211	105	200	0.401		
DRO >C10-C28*	<10.0	10.0	08/08/2025	ND	220	110	200	0.342		
EXT DRO >C28-C36	<10.0	10.0	08/08/2025	ND						

Surrogate: 1-Chlorooctane 89.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 91.4 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

VERTEX RESOURCE
 CHAD HENSLEY
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received:	08/07/2025	Sampling Date:	08/01/2025
Reported:	08/13/2025	Sampling Type:	Soil
Project Name:	NORTH INDIAN FLATS 24 FED 010	Sampling Condition:	Cool & Intact
Project Number:	25A-03772	Sample Received By:	Tamara Oldaker
Project Location:	EXXON MOBIL		

Sample ID: BS 25 - 26 @ 3' (H254856-23)

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	08/08/2025	ND	1.86	92.9	2.00	5.01		
Toluene*	<0.050	0.050	08/08/2025	ND	1.89	94.4	2.00	4.18		
Ethylbenzene*	<0.050	0.050	08/08/2025	ND	1.91	95.5	2.00	3.98		
Total Xylenes*	<0.150	0.150	08/08/2025	ND	5.75	95.8	6.00	3.22		
Total BTEX	<0.300	0.300	08/08/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	08/08/2025	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	08/08/2025	ND	211	105	200	0.401		
DRO >C10-C28*	<10.0	10.0	08/08/2025	ND	220	110	200	0.342		
EXT DRO >C28-C36	<10.0	10.0	08/08/2025	ND						

Surrogate: 1-Chlorooctane 93.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 95.6 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
 CHAD HENSLEY
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received:	08/07/2025	Sampling Date:	08/01/2025
Reported:	08/13/2025	Sampling Type:	Soil
Project Name:	NORTH INDIAN FLATS 24 FED 010	Sampling Condition:	Cool & Intact
Project Number:	25A-03772	Sample Received By:	Tamara Oldaker
Project Location:	EXXON MOBIL		

Sample ID: WS 25 - 03 @ 3-4' (H254856-24)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/08/2025	ND	1.86	92.9	2.00	5.01	
Toluene*	<0.050	0.050	08/08/2025	ND	1.89	94.4	2.00	4.18	
Ethylbenzene*	<0.050	0.050	08/08/2025	ND	1.91	95.5	2.00	3.98	
Total Xylenes*	<0.150	0.150	08/08/2025	ND	5.75	95.8	6.00	3.22	
Total BTEX	<0.300	0.300	08/08/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	08/08/2025	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	08/08/2025	ND	211	105	200	0.401	
DRO >C10-C28*	20.7	10.0	08/08/2025	ND	220	110	200	0.342	
EXT DRO >C28-C36	<10.0	10.0	08/08/2025	ND					

Surrogate: 1-Chlorooctane 82.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 84.4 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
 CHAD HENSLEY
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received:	08/07/2025	Sampling Date:	08/01/2025
Reported:	08/13/2025	Sampling Type:	Soil
Project Name:	NORTH INDIAN FLATS 24 FED 010	Sampling Condition:	Cool & Intact
Project Number:	25A-03772	Sample Received By:	Tamara Oldaker
Project Location:	EXXON MOBIL		

Sample ID: WS 25 - 09 @ 2-4' (H254856-25)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/08/2025	ND	1.86	92.9	2.00	5.01	
Toluene*	<0.050	0.050	08/08/2025	ND	1.89	94.4	2.00	4.18	
Ethylbenzene*	<0.050	0.050	08/08/2025	ND	1.91	95.5	2.00	3.98	
Total Xylenes*	<0.150	0.150	08/08/2025	ND	5.75	95.8	6.00	3.22	
Total BTEX	<0.300	0.300	08/08/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/08/2025	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	08/08/2025	ND	211	105	200	0.401	
DRO >C10-C28*	25.8	10.0	08/08/2025	ND	220	110	200	0.342	
EXT DRO >C28-C36	<10.0	10.0	08/08/2025	ND					

Surrogate: 1-Chlorooctane 92.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 96.1 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
 CHAD HENSLEY
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received:	08/07/2025	Sampling Date:	08/01/2025
Reported:	08/13/2025	Sampling Type:	Soil
Project Name:	NORTH INDIAN FLATS 24 FED 010	Sampling Condition:	Cool & Intact
Project Number:	25A-03772	Sample Received By:	Tamara Oldaker
Project Location:	EXXON MOBIL		

Sample ID: WS 25 - 10 @ 0-2' (H254856-26)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/08/2025	ND	1.86	92.9	2.00	5.01	
Toluene*	<0.050	0.050	08/08/2025	ND	1.89	94.4	2.00	4.18	
Ethylbenzene*	<0.050	0.050	08/08/2025	ND	1.91	95.5	2.00	3.98	
Total Xylenes*	<0.150	0.150	08/08/2025	ND	5.75	95.8	6.00	3.22	
Total BTEX	<0.300	0.300	08/08/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/08/2025	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	08/08/2025	ND	211	105	200	0.401	
DRO >C10-C28*	14.5	10.0	08/08/2025	ND	220	110	200	0.342	
EXT DRO >C28-C36	<10.0	10.0	08/08/2025	ND					

Surrogate: 1-Chlorooctane 88.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 90.1 % 40.6-153

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Analytical Results For:

VERTEX RESOURCE
 CHAD HENSLEY
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received:	08/07/2025	Sampling Date:	08/01/2025
Reported:	08/13/2025	Sampling Type:	Soil
Project Name:	NORTH INDIAN FLATS 24 FED 010	Sampling Condition:	Cool & Intact
Project Number:	25A-03772	Sample Received By:	Tamara Oldaker
Project Location:	EXXON MOBIL		

Sample ID: WS 25 - 11 @ 0-2' (H254856-27)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/08/2025	ND	1.86	92.9	2.00	5.01	
Toluene*	<0.050	0.050	08/08/2025	ND	1.89	94.4	2.00	4.18	
Ethylbenzene*	<0.050	0.050	08/08/2025	ND	1.91	95.5	2.00	3.98	
Total Xylenes*	<0.150	0.150	08/08/2025	ND	5.75	95.8	6.00	3.22	
Total BTEX	<0.300	0.300	08/08/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/08/2025	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	08/08/2025	ND	211	105	200	0.401	
DRO >C10-C28*	11.0	10.0	08/08/2025	ND	220	110	200	0.342	
EXT DRO >C28-C36	<10.0	10.0	08/08/2025	ND					

Surrogate: 1-Chlorooctane 72.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 73.8 % 40.6-153

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Analytical Results For:

VERTEX RESOURCE
 CHAD HENSLEY
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received:	08/07/2025	Sampling Date:	08/01/2025
Reported:	08/13/2025	Sampling Type:	Soil
Project Name:	NORTH INDIAN FLATS 24 FED 010	Sampling Condition:	Cool & Intact
Project Number:	25A-03772	Sample Received By:	Tamara Oldaker
Project Location:	EXXON MOBIL		

Sample ID: WS 25 - 12 @ 0-2' (H254856-28)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/08/2025	ND	1.86	92.9	2.00	5.01	
Toluene*	<0.050	0.050	08/08/2025	ND	1.89	94.4	2.00	4.18	
Ethylbenzene*	<0.050	0.050	08/08/2025	ND	1.91	95.5	2.00	3.98	
Total Xylenes*	<0.150	0.150	08/08/2025	ND	5.75	95.8	6.00	3.22	
Total BTEX	<0.300	0.300	08/08/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/08/2025	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	08/08/2025	ND	211	105	200	0.401	
DRO >C10-C28*	16.0	10.0	08/08/2025	ND	220	110	200	0.342	
EXT DRO >C28-C36	<10.0	10.0	08/08/2025	ND					

Surrogate: 1-Chlorooctane 91.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 93.9 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
 CHAD HENSLEY
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received:	08/07/2025	Sampling Date:	08/01/2025
Reported:	08/13/2025	Sampling Type:	Soil
Project Name:	NORTH INDIAN FLATS 24 FED 010	Sampling Condition:	Cool & Intact
Project Number:	25A-03772	Sample Received By:	Tamara Oldaker
Project Location:	EXXON MOBIL		

Sample ID: WS 25 - 13 @ 0-3' (H254856-29)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/08/2025	ND	1.86	92.9	2.00	5.01	
Toluene*	<0.050	0.050	08/08/2025	ND	1.89	94.4	2.00	4.18	
Ethylbenzene*	<0.050	0.050	08/08/2025	ND	1.91	95.5	2.00	3.98	
Total Xylenes*	<0.150	0.150	08/08/2025	ND	5.75	95.8	6.00	3.22	
Total BTEX	<0.300	0.300	08/08/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	08/08/2025	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	08/08/2025	ND	211	105	200	0.401	
DRO >C10-C28*	<10.0	10.0	08/08/2025	ND	220	110	200	0.342	
EXT DRO >C28-C36	<10.0	10.0	08/08/2025	ND					

Surrogate: 1-Chlorooctane 92.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 93.9 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
 CHAD HENSLEY
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received:	08/07/2025	Sampling Date:	08/05/2025
Reported:	08/13/2025	Sampling Type:	Soil
Project Name:	NORTH INDIAN FLATS 24 FED 010	Sampling Condition:	Cool & Intact
Project Number:	25A-03772	Sample Received By:	Tamara Oldaker
Project Location:	EXXON MOBIL		

Sample ID: BS 25 - 06 @ 4' (H254856-30)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/08/2025	ND	1.86	92.9	2.00	5.01		
Toluene*	<0.050	0.050	08/08/2025	ND	1.89	94.4	2.00	4.18		
Ethylbenzene*	<0.050	0.050	08/08/2025	ND	1.91	95.5	2.00	3.98		
Total Xylenes*	<0.150	0.150	08/08/2025	ND	5.75	95.8	6.00	3.22		
Total BTEX	<0.300	0.300	08/08/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	608	16.0	08/08/2025	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	08/08/2025	ND	211	105	200	0.401		
DRO >C10-C28*	14.1	10.0	08/08/2025	ND	220	110	200	0.342		
EXT DRO >C28-C36	<10.0	10.0	08/08/2025	ND						

Surrogate: 1-Chlorooctane 88.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 89.9 % 40.6-153

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Analytical Results For:

VERTEX RESOURCE
 CHAD HENSLEY
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received:	08/07/2025	Sampling Date:	08/05/2025
Reported:	08/13/2025	Sampling Type:	Soil
Project Name:	NORTH INDIAN FLATS 24 FED 010	Sampling Condition:	Cool & Intact
Project Number:	25A-03772	Sample Received By:	Tamara Oldaker
Project Location:	EXXON MOBIL		

Sample ID: BS 25 - 07 @ 4' (H254856-31)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/08/2025	ND	1.86	92.9	2.00	5.01		
Toluene*	<0.050	0.050	08/08/2025	ND	1.89	94.4	2.00	4.18		
Ethylbenzene*	<0.050	0.050	08/08/2025	ND	1.91	95.5	2.00	3.98		
Total Xylenes*	<0.150	0.150	08/08/2025	ND	5.75	95.8	6.00	3.22		
Total BTEX	<0.300	0.300	08/08/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	576	16.0	08/08/2025	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	08/08/2025	ND	211	105	200	0.401		
DRO >C10-C28*	17.2	10.0	08/08/2025	ND	220	110	200	0.342		
EXT DRO >C28-C36	<10.0	10.0	08/08/2025	ND						

Surrogate: 1-Chlorooctane 90.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 92.6 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

VERTEX RESOURCE
 CHAD HENSLEY
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received:	08/07/2025	Sampling Date:	08/05/2025
Reported:	08/13/2025	Sampling Type:	Soil
Project Name:	NORTH INDIAN FLATS 24 FED 010	Sampling Condition:	Cool & Intact
Project Number:	25A-03772	Sample Received By:	Tamara Oldaker
Project Location:	EXXON MOBIL		

Sample ID: BS 25 - 08 @ 4' (H254856-32)

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	08/08/2025	ND	1.86	92.9	2.00	5.01	
Toluene*	<0.050	0.050	08/08/2025	ND	1.89	94.4	2.00	4.18	
Ethylbenzene*	<0.050	0.050	08/08/2025	ND	1.91	95.5	2.00	3.98	
Total Xylenes*	<0.150	0.150	08/08/2025	ND	5.75	95.8	6.00	3.22	
Total BTEX	<0.300	0.300	08/08/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	08/08/2025	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	08/08/2025	ND	211	105	200	0.401	
DRO >C10-C28*	15.5	10.0	08/08/2025	ND	220	110	200	0.342	
EXT DRO >C28-C36	<10.0	10.0	08/08/2025	ND					

Surrogate: 1-Chlorooctane 95.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 98.3 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
 CHAD HENSLEY
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received:	08/07/2025	Sampling Date:	08/05/2025
Reported:	08/13/2025	Sampling Type:	Soil
Project Name:	NORTH INDIAN FLATS 24 FED 010	Sampling Condition:	Cool & Intact
Project Number:	25A-03772	Sample Received By:	Tamara Oldaker
Project Location:	EXXON MOBIL		

Sample ID: BS 25 - 09 @ 4' (H254856-33)

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	08/08/2025	ND	1.86	92.9	2.00	5.01		
Toluene*	<0.050	0.050	08/08/2025	ND	1.89	94.4	2.00	4.18		
Ethylbenzene*	<0.050	0.050	08/08/2025	ND	1.91	95.5	2.00	3.98		
Total Xylenes*	<0.150	0.150	08/08/2025	ND	5.75	95.8	6.00	3.22		
Total BTEX	<0.300	0.300	08/08/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	08/08/2025	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	08/08/2025	ND	211	105	200	0.401		
DRO >C10-C28*	<10.0	10.0	08/08/2025	ND	220	110	200	0.342		
EXT DRO >C28-C36	<10.0	10.0	08/08/2025	ND						

Surrogate: 1-Chlorooctane 90.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 92.7 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
 CHAD HENSLEY
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received:	08/07/2025	Sampling Date:	08/05/2025
Reported:	08/13/2025	Sampling Type:	Soil
Project Name:	NORTH INDIAN FLATS 24 FED 010	Sampling Condition:	Cool & Intact
Project Number:	25A-03772	Sample Received By:	Tamara Oldaker
Project Location:	EXXON MOBIL		

Sample ID: BS 25 - 10 @ 4' (H254856-34)

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	08/08/2025	ND	1.86	92.9	2.00	5.01		
Toluene*	<0.050	0.050	08/08/2025	ND	1.89	94.4	2.00	4.18		
Ethylbenzene*	<0.050	0.050	08/08/2025	ND	1.91	95.5	2.00	3.98		
Total Xylenes*	<0.150	0.150	08/08/2025	ND	5.75	95.8	6.00	3.22		
Total BTEX	<0.300	0.300	08/08/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	08/08/2025	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	08/08/2025	ND	211	105	200	0.401		
DRO >C10-C28*	<10.0	10.0	08/08/2025	ND	220	110	200	0.342		
EXT DRO >C28-C36	<10.0	10.0	08/08/2025	ND						

Surrogate: 1-Chlorooctane 93.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 94.7 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
 CHAD HENSLEY
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received:	08/07/2025	Sampling Date:	08/05/2025
Reported:	08/13/2025	Sampling Type:	Soil
Project Name:	NORTH INDIAN FLATS 24 FED 010	Sampling Condition:	Cool & Intact
Project Number:	25A-03772	Sample Received By:	Tamara Oldaker
Project Location:	EXXON MOBIL		

Sample ID: BS 25 - 11 @ 4' (H254856-35)

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	08/08/2025	ND	1.86	92.9	2.00	5.01	
Toluene*	<0.050	0.050	08/08/2025	ND	1.89	94.4	2.00	4.18	
Ethylbenzene*	<0.050	0.050	08/08/2025	ND	1.91	95.5	2.00	3.98	
Total Xylenes*	<0.150	0.150	08/08/2025	ND	5.75	95.8	6.00	3.22	
Total BTEX	<0.300	0.300	08/08/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/08/2025	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	08/08/2025	ND	211	105	200	0.401	
DRO >C10-C28*	17.2	10.0	08/08/2025	ND	220	110	200	0.342	
EXT DRO >C28-C36	<10.0	10.0	08/08/2025	ND					

Surrogate: 1-Chlorooctane 85.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 87.0 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
 CHAD HENSLEY
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received:	08/07/2025	Sampling Date:	08/05/2025
Reported:	08/13/2025	Sampling Type:	Soil
Project Name:	NORTH INDIAN FLATS 24 FED 010	Sampling Condition:	Cool & Intact
Project Number:	25A-03772	Sample Received By:	Tamara Oldaker
Project Location:	EXXON MOBIL		

Sample ID: BS 25 - 12 @ 4' (H254856-36)

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	08/08/2025	ND	1.86	92.9	2.00	5.01	
Toluene*	<0.050	0.050	08/08/2025	ND	1.89	94.4	2.00	4.18	
Ethylbenzene*	<0.050	0.050	08/08/2025	ND	1.91	95.5	2.00	3.98	
Total Xylenes*	<0.150	0.150	08/08/2025	ND	5.75	95.8	6.00	3.22	
Total BTEX	<0.300	0.300	08/08/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/08/2025	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	08/08/2025	ND	203	102	200	1.09	
DRO >C10-C28*	17.5	10.0	08/08/2025	ND	203	101	200	1.30	
EXT DRO >C28-C36	<10.0	10.0	08/08/2025	ND					

Surrogate: 1-Chlorooctane 89.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 93.2 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
 CHAD HENSLEY
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received:	08/07/2025	Sampling Date:	08/05/2025
Reported:	08/13/2025	Sampling Type:	Soil
Project Name:	NORTH INDIAN FLATS 24 FED 010	Sampling Condition:	Cool & Intact
Project Number:	25A-03772	Sample Received By:	Tamara Oldaker
Project Location:	EXXON MOBIL		

Sample ID: BACKFILL CALICHE (H254856-37)

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	08/08/2025	ND	1.86	92.9	2.00	5.01	
Toluene*	<0.050	0.050	08/08/2025	ND	1.89	94.4	2.00	4.18	
Ethylbenzene*	<0.050	0.050	08/08/2025	ND	1.91	95.5	2.00	3.98	
Total Xylenes*	<0.150	0.150	08/08/2025	ND	5.75	95.8	6.00	3.22	
Total BTEX	<0.300	0.300	08/08/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	08/08/2025	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	08/08/2025	ND	203	102	200	1.09	
DRO >C10-C28*	<10.0	10.0	08/08/2025	ND	203	101	200	1.30	
EXT DRO >C28-C36	<10.0	10.0	08/08/2025	ND					

Surrogate: 1-Chlorooctane 91.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 93.0 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- QR-04 The RPD for the BS/BSD was outside of historical limits.
QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
** Samples not received at proper temperature of 6°C or below.
*** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Vertex Resource	BILL TO	ANALYSIS REQUEST										
Project Manager: Chad Hensley		P.O. #: 180841001										
Address: 3101 Boyd drive		Company: ExxonMobil										
City: Carlsbad State: NM Zip: 88220		Attn: Ashley McAfee										
Phone #: 575-200-6167 Fax #:		Address: 3104 E Greene St										
Project #: 25A-03772 Project Owner:		City: Carlsbad										
Project Name: North Indian Flats 24 Fed 010		State: NM Zip: 88220										
Project Location:		Phone #:										
Sampler Name: Riley Arnold		Fax #:										

FOR LAB USE ONLY		Lab I.D.	Sample I.D.	(GRAB OR (C)OMP. # CONTAINERS	MATRIX					PRESERV.		SAMPLING		DATE	TIME	BTX	TPH	Chloride
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER					
		H254856	8525-13 @ 2'	1			X				X		8.1.25	9:30	X	X	X	
			8525-14 @ 2'											9:22				
			8525-15 @ 2'											9:46				
			8525-16 @ 2'											9:52				
			8525-17 @ 2'											10:00				
			8525-18 @ 2'											10:16				
			8525-19 @ 2'											10:24				
			8525-20 @ 2'											10:32				
			8525-21 @ 2'											10:40				
			8525-22 @ 2'											10:49				

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Relinquished By: <i>[Signature]</i>	Date: 8-7-25	Received By: <i>[Signature]</i>	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
Relinquished By:	Time: 1430	Received By:	All Results are emailed. Please provide Email address: RArnold@vertexresource.com
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C: 0.5	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	REMARKS: Chensley@vertexresource.com
	Corrected Temp. °C: 0.8	CHECKED BY: (Initials) JO	Turnaround Time: <input type="checkbox"/> Standard <input checked="" type="checkbox"/> Rush
			Bacteria (only) Sample Condition Cool Intact Observed Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> No
			Thermometer ID #140 Correction Factor +0.3°C
			<input type="checkbox"/> No <input type="checkbox"/> No Corrected Temp. °C

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



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(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Vertex Resource	BILL TO	ANALYSIS REQUEST	
Project Manager: Chad Hensley			P.O. #: 180841001
Address: 3101 Boyd drive			Company: Exxon/Mobil
City: Carlsbad State: NM Zip: 88220			Attn: Ashley McAfee
Phone #: 575-200-6167 Fax #:			Address: 3104 E Greene St
Project #: 25A-03772 Project Owner:			City: Carlsbad
Project Name: North Indian Flats 24 Fed 010			State: NM Zip: 88220
Project Location:	Phone #:		
Sampler Name: Riley Arnold	Fax #:		

FOR LAB USE ONLY		GIRAB OR (COMP) # CONTAINERS	MATRIX				PRESERV.	SAMPLING	DATE	TIME	BTEX	TPH	Chloride
Lab I.D.	Sample I.D.		GROUNDWATER	WASTEWATER	SOIL	OTHER							
H254856													
11	B525-01 @ 3'	C			X			X	8.4.25	9:10	X	X	X
12	B525-02 @ 3'												
13	B525-03 @ 3'												
14	W525-01 @ 0-3'												
15	W525-02 @ 0-3'												
14	W525-05 @ 0-4'												
17	W525-06 @ 0-4'												
18	W525-07 @ 0-4'												
19	W525-08 @ 0-4'												

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Relinquished By: <i>[Signature]</i>	Date: 8-7-25	Received By: <i>[Signature]</i>	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By: <i>[Signature]</i>	Time: 1430	Received By: <i>[Signature]</i>	All Results are emailed. Please provide Email address: Rarnold@vertexresource.com	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C: 0.5	Sample Condition: Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	REMARKS: Chensley@vertexresource.com	
Corrected Temp. °C: 0.8	Checked By: <i>[Signature]</i>	Turnaround Time: Standard	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> No	
Thermometer ID #140 Correction Factor +0.3°C			Corrected Temp. °C	

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Vertex Resource	BILL TO	ANALYSIS REQUEST
Project Manager: Chad Hensley		
Address: 3101 Boyd drive	Company: Exxon/Mobil	
City: Carlsbad State: NM Zip: 88220	Attn: Ashley McAfee	
Phone #: 575-200-6167 Fax #:	Address: 3104 E Greene St	
Project #: 25A-03772 Project Owner:	City: Carlsbad	
Project Name: North Indian Flats 24 Fed 010	State: NM Zip: 88220	
Project Location:	Phone #:	
Sampler Name: Riley Arnold	Fax #:	

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP # CONTAINERS	MATRIX					PRESEV.	SAMPLING		BTX	TPH	Chloride	
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL				OTHER
30	BS25-06 @ 4'	C			X				X	8.5.25	10:00	X	X	X
31	BS25-07 @ 4'													
32	BS25-08 @ 4'													
33	BS25-09 @ 4'													
34	BS25-10 @ 4'													
35	BS25-11 @ 4'													
36	BS25-12 @ 4'													
37	Backfill Caliche										9:00			

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Relinquished By: *[Signature]* Date: **8-2-25** Received By: *[Signature]*
 Relinquished By: *[Signature]* Date: **1430** Received By: *[Signature]*

Verbal Result: Yes No Add'l Phone #:
 All Results are emailed. Please provide Email address: **RArnold@VertexResource.com**
 REMARKS: **Chensley@VertexResource.com**

Delivered By: (Circle One) UPS Bus Other
 Observed Temp. °C: **0.5** Sample Condition: Cool Intact
 Corrected Temp. °C: **0.8** Yes No Yes No
 CHECKED BY: *[Signature]* (Initials)

Turnaround Time: Standard Rush
 Bacteria (only) Sample Condition: Cool Intact Observed Temp. °C
 Yes No Yes No Corrected Temp. °C

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



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

August 18, 2025

CHAD HENSLEY
VERTEX RESOURCE
3101 BOYD DRIVE
CARLSBAD, NM 88220

RE: NORTH INDIAN FLATS 24 FED 010

Enclosed are the results of analyses for samples received by the laboratory on 08/12/25 12:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

VERTEX RESOURCE
 CHAD HENSLEY
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received:	08/12/2025	Sampling Date:	08/08/2025
Reported:	08/18/2025	Sampling Type:	Soil
Project Name:	NORTH INDIAN FLATS 24 FED 010	Sampling Condition:	Cool & Intact
Project Number:	25A-03772	Sample Received By:	Tamara Oldaker
Project Location:	EXXON MOBIL		

Sample ID: BS25 - 04 @ 6' (H254960-01)

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	08/13/2025	ND	1.89	94.4	2.00	19.5	
Toluene*	<0.050	0.050	08/13/2025	ND	1.84	92.0	2.00	12.2	
Ethylbenzene*	<0.050	0.050	08/13/2025	ND	1.82	91.0	2.00	6.44	
Total Xylenes*	<0.150	0.150	08/13/2025	ND	5.51	91.8	6.00	5.55	
Total BTEX	<0.300	0.300	08/13/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	240	16.0	08/13/2025	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	08/13/2025	ND	198	99.0	200	0.962	
DRO >C10-C28*	10.7	10.0	08/13/2025	ND	189	94.4	200	0.866	
EXT DRO >C28-C36	<10.0	10.0	08/13/2025	ND					

Surrogate: 1-Chlorooctane 114 % 44.4-145

Surrogate: 1-Chlorooctadecane 117 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
 CHAD HENSLEY
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received:	08/12/2025	Sampling Date:	08/08/2025
Reported:	08/18/2025	Sampling Type:	Soil
Project Name:	NORTH INDIAN FLATS 24 FED 010	Sampling Condition:	Cool & Intact
Project Number:	25A-03772	Sample Received By:	Tamara Oldaker
Project Location:	EXXON MOBIL		

Sample ID: BS25 - 05 @ 6' (H254960-02)

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	08/13/2025	ND	1.89	94.4	2.00	19.5		
Toluene*	<0.050	0.050	08/13/2025	ND	1.84	92.0	2.00	12.2		
Ethylbenzene*	<0.050	0.050	08/13/2025	ND	1.82	91.0	2.00	6.44		
Total Xylenes*	<0.150	0.150	08/13/2025	ND	5.51	91.8	6.00	5.55		
Total BTEX	<0.300	0.300	08/13/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	704	16.0	08/13/2025	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	08/13/2025	ND	198	99.0	200	0.962		
DRO >C10-C28*	10.6	10.0	08/13/2025	ND	189	94.4	200	0.866		
EXT DRO >C28-C36	<10.0	10.0	08/13/2025	ND						

Surrogate: 1-Chlorooctane 115 % 44.4-145

Surrogate: 1-Chlorooctadecane 121 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
 CHAD HENSLEY
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received:	08/12/2025	Sampling Date:	08/08/2025
Reported:	08/18/2025	Sampling Type:	Soil
Project Name:	NORTH INDIAN FLATS 24 FED 010	Sampling Condition:	Cool & Intact
Project Number:	25A-03772	Sample Received By:	Tamara Oldaker
Project Location:	EXXON MOBIL		

Sample ID: WS25 - 04 @ 0-6' (H254960-03)

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	08/13/2025	ND	1.89	94.4	2.00	19.5		
Toluene*	<0.050	0.050	08/13/2025	ND	1.84	92.0	2.00	12.2		
Ethylbenzene*	<0.050	0.050	08/13/2025	ND	1.82	91.0	2.00	6.44		
Total Xylenes*	<0.150	0.150	08/13/2025	ND	5.51	91.8	6.00	5.55		
Total BTEX	<0.300	0.300	08/13/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	08/13/2025	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	08/13/2025	ND	198	99.0	200	0.962		
DRO >C10-C28*	14.2	10.0	08/13/2025	ND	189	94.4	200	0.866		
EXT DRO >C28-C36	<10.0	10.0	08/13/2025	ND						

Surrogate: 1-Chlorooctane 117 % 44.4-145

Surrogate: 1-Chlorooctadecane 122 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
 CHAD HENSLEY
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received:	08/12/2025	Sampling Date:	08/08/2025
Reported:	08/18/2025	Sampling Type:	Soil
Project Name:	NORTH INDIAN FLATS 24 FED 010	Sampling Condition:	Cool & Intact
Project Number:	25A-03772	Sample Received By:	Tamara Oldaker
Project Location:	EXXON MOBIL		

Sample ID: WS25 - 14 @ 4-6' (H254960-04)

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	08/13/2025	ND	1.89	94.4	2.00	19.5	
Toluene*	<0.050	0.050	08/13/2025	ND	1.84	92.0	2.00	12.2	
Ethylbenzene*	<0.050	0.050	08/13/2025	ND	1.82	91.0	2.00	6.44	
Total Xylenes*	<0.150	0.150	08/13/2025	ND	5.51	91.8	6.00	5.55	
Total BTEX	<0.300	0.300	08/13/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	08/13/2025	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	08/13/2025	ND	198	99.0	200	0.962	
DRO >C10-C28*	<10.0	10.0	08/13/2025	ND	189	94.4	200	0.866	
EXT DRO >C28-C36	<10.0	10.0	08/13/2025	ND					

Surrogate: 1-Chlorooctane 112 % 44.4-145

Surrogate: 1-Chlorooctadecane 117 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

VERTEX RESOURCE
 CHAD HENSLEY
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received:	08/12/2025	Sampling Date:	08/08/2025
Reported:	08/18/2025	Sampling Type:	Soil
Project Name:	NORTH INDIAN FLATS 24 FED 010	Sampling Condition:	Cool & Intact
Project Number:	25A-03772	Sample Received By:	Tamara Oldaker
Project Location:	EXXON MOBIL		

Sample ID: BH25-27 @ 4' (H254960-05)

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	08/13/2025	ND	1.89	94.4	2.00	19.5	
Toluene*	<0.050	0.050	08/13/2025	ND	1.84	92.0	2.00	12.2	
Ethylbenzene*	<0.050	0.050	08/13/2025	ND	1.82	91.0	2.00	6.44	
Total Xylenes*	<0.150	0.150	08/13/2025	ND	5.51	91.8	6.00	5.55	
Total BTEX	<0.300	0.300	08/13/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/13/2025	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	08/13/2025	ND	198	99.0	200	0.962	
DRO >C10-C28*	<10.0	10.0	08/13/2025	ND	189	94.4	200	0.866	
EXT DRO >C28-C36	<10.0	10.0	08/13/2025	ND					

Surrogate: 1-Chlorooctane 115 % 44.4-145

Surrogate: 1-Chlorooctadecane 118 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- QR-04 The RPD for the BS/BSD was outside of historical limits.
BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
** Samples not received at proper temperature of 6°C or below.
*** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Vertex Resource	BILL TO	ANALYSIS REQUEST											
Project Manager: Chad Hensley	P.O. #: 180841001												
Address: 3101 Boyd drive	Company: ExxonMobil												
City: Carlsbad State: NM Zip: 88220	Attn: Ashley McAfee												
Phone #: 575-200-6167 Fax #:	Address: 3104 E Greene St												
Project #: 25A-03772 Project Owner:	City: Carlsbad												
Project Name: North Indian Flats 24 Fed 010	State: NM Zip: 88220												
Project Location:	Phone #:												
Sampler Name: Riley Arnold	Fax #:												

Lab I.D.	Sample I.D.	(GRAB OR C) JUMP	# CONTAINERS	MATRIX					PRESERV.		SAMPLING		DATE	TIME	BTEX	TPH	Chloride
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER					
H254960																	
1	B525-04 @ 6'		1			X				X		8.8.25	3:50	X	X	X	
2	B525-05 @ 6'												4:00				
3	W525-04 @ 0-6'												4:20				
4	W525-14 @ 4-6'												4:35				
5	B525-27 @ 4'												3:30				

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Relinquished By: <i>[Signature]</i>	Date: 8-12-25	Received By: <i>[Signature]</i>	Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #:
Time: 1240			All Results are emailed. Please provide Email address: RArnold@vertexresource.com
Relinquished By:	Date:	Received By:	REMARKS: Chensley@vertexresource.com
Time:			
Delivered By: (Circle One)	Observed Temp. °C: 2.8	Sample Condition: <input checked="" type="checkbox"/> Cool <input checked="" type="checkbox"/> Intact	CHECKED BY: (Initials) YO
Sampler - UPS - Bus - Other:	Corrected Temp. °C: 3.1	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Turnaround Time: <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush
FORM-006 R 3.0 02/12/20			Bacteria (only) Sample Condition: <input type="checkbox"/> Cool <input type="checkbox"/> Intact
			Observed Temp. °C: <input type="checkbox"/> Yes <input type="checkbox"/> No
			Corrected Temp. °C: <input type="checkbox"/> Yes <input type="checkbox"/> No

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



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

August 29, 2025

CHAD HENSLEY
VERTEX RESOURCE
3101 BOYD DRIVE
CARLSBAD, NM 88220

RE: NORTH INDIAN FLATS 24 FED 010

Enclosed are the results of analyses for samples received by the laboratory on 08/25/25 12:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

VERTEX RESOURCE
 CHAD HENSLEY
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received:	08/25/2025	Sampling Date:	08/22/2025
Reported:	08/29/2025	Sampling Type:	Soil
Project Name:	NORTH INDIAN FLATS 24 FED 010	Sampling Condition:	Cool & Intact
Project Number:	25A-03772	Sample Received By:	Shalyn Rodriguez
Project Location:	EXXON MOBIL		

Sample ID: BH 25-05 @ 6' (H255271-01)

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	08/26/2025	ND	1.92	95.8	2.00	0.188	
Toluene*	<0.050	0.050	08/26/2025	ND	2.03	102	2.00	0.407	
Ethylbenzene*	<0.050	0.050	08/26/2025	ND	2.06	103	2.00	1.76	
Total Xylenes*	<0.150	0.150	08/26/2025	ND	6.13	102	6.00	2.40	
Total BTEX	<0.300	0.300	08/26/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	08/26/2025	ND	480	120	400	6.90	

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	08/25/2025	ND	208	104	200	0.0442	
DRO >C10-C28*	30.4	10.0	08/25/2025	ND	193	96.5	200	0.612	
EXT DRO >C28-C36	<10.0	10.0	08/25/2025	ND					

Surrogate: 1-Chlorooctane 93.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 92.6 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

VERTEX RESOURCE
 CHAD HENSLEY
 3101 BOYD DRIVE
 CARLSBAD NM, 88220
 Fax To: NA

Received:	08/25/2025	Sampling Date:	08/22/2025
Reported:	08/29/2025	Sampling Type:	Soil
Project Name:	NORTH INDIAN FLATS 24 FED 010	Sampling Condition:	Cool & Intact
Project Number:	25A-03772	Sample Received By:	Shalyn Rodriguez
Project Location:	EXXON MOBIL		

Sample ID: BH 25-06 @ 4' (H255271-02)

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	08/26/2025	ND	1.92	95.8	2.00	0.188	
Toluene*	<0.050	0.050	08/26/2025	ND	2.03	102	2.00	0.407	
Ethylbenzene*	<0.050	0.050	08/26/2025	ND	2.06	103	2.00	1.76	
Total Xylenes*	<0.150	0.150	08/26/2025	ND	6.13	102	6.00	2.40	
Total BTEX	<0.300	0.300	08/26/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	08/26/2025	ND	480	120	400	6.90	

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	08/25/2025	ND	208	104	200	0.0442	
DRO >C10-C28*	29.8	10.0	08/25/2025	ND	193	96.5	200	0.612	
EXT DRO >C28-C36	<10.0	10.0	08/25/2025	ND					

Surrogate: 1-Chlorooctane 94.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 94.4 % 40.6-153

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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

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Vertex Resource		BILL TO		ANALYSIS REQUEST							
Project Manager: Chad Hensley		P.O. #: 180841001									
Address: 3101 Boyd drive		Company: ExxonMobil									
City: Carlsbad State: NM Zip: 88220		Attn: Ashley McAfee									
Phone #: 575-200-6167 Fax #:		Address: 3104 E Greene St									
Project #: 25A-03772 Project Owner:		City: Carlsbad									
Project Name: North Indian Flats 24 Fed 010		State: NM Zip: 88220									
Project Location:		Phone #:									
Sampler Name: Riley Arnold		Fax #:									

FOR LAB USE ONLY		(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.		SAMPLING		DATE	TIME	BTEX	TPH	Chloride
Lab I.D.	Sample I.D.			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER					
B55271																	
2	B525-05 @ 6'	C	1			X			X			8.22.25		X	X	X	
	B525-06 @ 4'	C	1			X			X			8.22.25		X	X	X	

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Relinquished By: <i>[Signature]</i>	Date: 8.25.25	Received By: <i>[Signature]</i>	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Time: 2:35			All Results are emailed. Please provide Email address: rainold@vertexresource.com	
Relinquished By:	Date:	Received By:	REMARKS: Chensley@vertexresource.com	
Time:				
Delivered By: (Circle One)	Observed Temp. °C: 3.1c	Sample Condition: Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: <i>[Signature]</i>	Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>
Sampler - UPS - Bus - Other:	Corrected Temp. °C: 3.4c			Bacteria (only) Sample Condition: Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No
				Thermometer ID #140 Correction Factor +0.3°C

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

QUESTIONS

Action 504766

QUESTIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 504766
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2519257048
Incident Name	NAPP2519257048 NORTH INDIAN FLATS 24 FED 010 @ 30-015-38196
Incident Type	Release Other
Incident Status	Remediation Closure Report Received
Incident Well	[30-015-38196] NORTH INDIAN FLATS 24 FEDERAL #010

Location of Release Source	
<i>Please answer all the questions in this group.</i>	
Site Name	NORTH INDIAN FLATS 24 FED 010
Date Release Discovered	07/07/2025
Surface Owner	Federal

Incident Details	
<i>Please answer all the questions in this group.</i>	
Incident Type	Release 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	
<i>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.</i>	
Crude Oil Released (bbls) Details	Cause: Equipment Failure Valve Crude Oil Released: 3 BBL Recovered: 0 BBL Lost: 3 BBL.
Produced Water Released (bbls) Details	Cause: Equipment Failure Valve Produced Water Released: 3 BBL Recovered: 0 BBL Lost: 3 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 504766

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 504766
	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	No
Reasons why this would be considered a submission for a notification of a major release	<i>Unavailable.</i>

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

Initial Response

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

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

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

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

I hereby agree and sign off to the above statement	Name: Robert Woodall Title: Environmental Analyst Email: robert.d.woodall@exxonmobil.com Date: 09/10/2025
--	--

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QUESTIONS, Page 3

Action 504766

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 504766
	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 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan

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

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

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

Chloride (EPA 300.0 or SM4500 Cl B)	2000
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	26
GRO+DRO (EPA SW-846 Method 8015M)	26
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	07/29/2025
On what date will (or did) the final sampling or liner inspection occur	08/22/2025
On what date will (or was) the remediation complete(d)	08/08/2025
What is the estimated surface area (in square feet) that will be reclaimed	4603
What is the estimated volume (in cubic yards) that will be reclaimed	317
What is the estimated surface area (in square feet) that will be remediated	4603
What is the estimated volume (in cubic yards) that will be remediated	317

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

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

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QUESTIONS, Page 4

Action 504766

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 504766
	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	fEEM0112334510 HALFWAY DISPOSAL AND LANDFILL
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: Robert Woodall Title: Environmental Analyst Email: robert.d.woodall@exxonmobil.com Date: 09/10/2025
--	--

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.

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QUESTIONS, Page 5

Action 504766

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 504766
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only	
<i>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.</i>	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 504766

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 504766
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	497051
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/22/2025
What was the (estimated) number of samples that were to be gathered	2
What was the sampling surface area in square feet	3800

Remediation Closure Request	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
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	4603
What was the total volume (cubic yards) remediated	317
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	4603
What was the total volume (in cubic yards) reclaimed	317
Summarize any additional remediation activities not included by answers (above)	see report

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: Robert Woodall Title: Environmental Analyst Email: robert.d.woodall@exxonmobil.com Date: 09/10/2025
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Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

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

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

QUESTIONS, Page 7

Action 504766

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 504766
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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CONDITIONS

Action 504766

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
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	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	This Remediation Closure Report is approved. Areas reasonably needed for production or subsequent drilling operations will need to be reclaimed and revegetated as soon as they are no longer reasonably needed. A report for reclamation and revegetation will need to be submitted and approved prior to this incident receiving the final status of "Restoration Complete".	10/8/2025