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## Closure Report

Amoco 1 Federal #002  
Lea County, New Mexico  
API ID # 30-025-29848  
**Incident #** NTO1419156096

## Prepared For:

Matador Resources  
5347 N. 26<sup>th</sup> Street 2<sup>nd</sup> Floor.  
Artesia, NM 88210

## Prepared By:

Talon/LPE  
408 W. Texas Avenue  
Artesia, New Mexico 88210

**December 1, 2023**

**NMOCD**

506 W. Texas Ave  
Artesia, NM 88210

Subject: **Closure Report**  
Amoco 1 Federal #002  
Lea County, New Mexico  
API # 30-025-35204  
Incident # NTO1419156096

To Whom It May Concern,

Matador Resources contracted Talon/LPE (Talon) to complete remediation and closure activities at the above referenced location. The incident description, soil sampling results, and the closure request are presented herein.

**Site Information**

The Amoco 1 Federal #002 is located approximately 24 miles southwest of Lovington, New Mexico. The legal location for this release is Unit Letter N, Section 01, Township 18 South and Range 32 East in Lea County, New Mexico. More specifically the latitude and longitude for the release are 32.7706909 and - 103.7209167. A Site Location Map is presented in [Appendix I](#).

According to the soil survey provided by the United States Department of Agriculture National Resources Conservation Services, the soil in this area is comprised of Kermit-Palomas fine sands, 0 to 12 percent slopes. The referenced soil data is presented in [Appendix II](#). Per the New Mexico Bureau of Geology and Mineral Resources, the local geology consists of eolian and piedmont deposits, Holocene to middle Pleistocene in age. Drainage courses in this area are typically excessively drained.

**Groundwater and Site Characterization**

Based on the New Mexico Office of the State Engineer Database, the nearest reported groundwater depth is 100 feet below ground surface (bgs) but is located greater than 0.5 miles from the subject site. The FEMA Flood Service Center does not locate the site in a 100-year flood plain. Further research of the Bureau of Land Management Karst data indicates that this site is situated within a low potential Karst area. See [Appendix II](#) for the site characterization data.

Site Characterization	
What is the shallowest to groundwater beneath the area affected by the release in feet bgs	100 ft
What method was used to determine the depth to ground water	estimate
Did the release impact ground water	No
Distance to flowing watercourse or any other significant watercourse	915'
Distance of any Lakebead, sinkhole, or playa lake	2.1 mi
Distance of occupied residence, school, hospital, institution, or church	23 mi
Distance of a spring or private domestic fresh water well used by less than five households for domestic or stock watering purposes	1.7 mi
Distance of any fresh water well or spring	2.85 mi
Distance of Incorporated municipal boundaries or a defined municipal fresh water field	7.24 mi
Distance of Wetland	39.6 mi
Distance from a subsurface mine	14.3 mi
Distance from (non-karst) unstable area	15.5 mi
Categorize the risk of this well / site being in a karst geology	Low
100 year floodplain	Yes
Did the release impact areas not on an exploration, development, production, or storage site.	Yes

With no depth to water source available that meets New Mexico Oil Conservation Division's (NMOCD) criteria within ½ mile of the site, the responsible party must therefore adhere to the cleanup criteria for this site of groundwater less than 50 feet bgs, Table I, NMOCD Rule 19.15.29 NMAC.

Table I Closure Criteria for Soils Impacted by a Release			
Depth below horizontal extents of release to ground water less than 10,000 mg/l TDS	Constituent	Method	Limit
≤ 50 feet	Total Chlorides	EPA 300.0 or SM4500 Cl B	600 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	100 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

### Incident Description

Matador personnel noted a historical spill had been reported on August 19, 2011, that needed to be addressed. The C-141 submitted to the NMOCD, incident number NTO1419156096, stated a hole was noted in a flow line, resulting in the release of four (4) barrels (bbls) of crude oil was released to the site and three (3) bbls were recovered. The site map is presented in [Appendix I](#).

### Site Assessment

On January 25, 2023, Talon personnel mobilized to the site to conduct an initial site assessment of the historical release area. Samples were collected from seven (7) points in and around the estimated spill area. The sample positions and estimated spill area were mapped with a global navigation satellite system (GNSS) device and photographed with a drone. All soil samples were properly packaged, preserved, and transported to Eurofins laboratories with the chain of custody for analysis of Total Chlorides (EPA Method 300.0), TPH (EPA Method 8015B), and volatile Organics (BTEX, EPA Method 8021B). Sample locations are shown on the attached Figure 2 ([Appendix I](#)). The analytical results of our sampling event are presented below in Table 1.



**Table 1**  
**Site Assessment Analytical Data**

Amoco 1 Fed 2									
Sample ID	Sample Date	Depth (BGS)	Benzene mg/kg	BTEX mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Chlorides mg/kg
<b>NMOCD Table 1 Closure Criteria 19.15.29 NMAC</b>			<b>10 mg/kg</b>	<b>50 mg/kg</b>	<b>DRO + GRO + MRO combined = 100 mg/kg</b>			<b>100 mg/kg</b>	<b>600 mg/kg</b>
<b>S-1</b>	1/25/23	1'	ND	ND	46.9	26.8	ND	73.7	121
	1/25/23	2'	ND	ND	46.1	25.4	ND	71.5	117
	1/25/23	4'	ND	ND	38.2	28.5	ND	66.7	179
<b>S-2</b>	1/25/23	1'	ND	ND	40.7	22.8	ND	63.5	85.1
	1/25/23	2'	ND	ND	47.6	123	40.5	211.1	54
	1/25/23	4'	ND	0.0	40.9	1120	298	1458.9	55.2
<b>S-3</b>	1/25/23	1'	ND	0.0	43.8	196	71.6	311.4	72.4
	1/25/23	2'	ND	ND	46	259	96.3	401.3	125
	1/25/23	4'	ND	ND	43.9	157	52.7	253.6	166
<b>S-4</b>	1/25/23	1'	ND	0.0	39.8	37.7	28.7	106.2	334
	1/25/23	2'	ND	0.0	44.6	55.3	27.9	127.8	207
	1/25/23	4'	ND	ND	47.5	31	22.7	101.2	149
<b>S-5</b>	1/25/23	0'	ND	ND	20.7	40.3	ND	61	7.05
<b>S-6</b>	1/25/23	0'	ND	ND	24.5	ND	ND	24.5	2.84
<b>S-7</b>	1/25/23	0'	ND	ND	24.4	15.6	ND	40	69.1

**NOTES:**

**BGS** Below ground surface

**mg/kg** Milligrams per kilogram

**TPH** Total Petroleum Hydrocarbons

**GRO** Gasoline range organics

**DRO** Diesel range organics

**MRO** Motor oil range organics

**S** Sample

**ND** Analyte Not Detected

**Highlighted cells indicate exceedance of NMOCD Table 1 Closure Criteria**

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### Remediation Activities

On July 13, 2023, upon client authorization, Talon personnel mobilized to the subject location to remove impacted soils located around the suspected historical release area in pasture. A backhoe was used to excavate down to two (2) feet bgs. Five (5) point composite confirmation samples were collected. The samples were transported with the chain of custody to Cardinal Laboratories, for analysis of Total Chlorides (SM4500Cl-B), Total Petroleum Hydrocarbons (TPH, EPA Method 8015M) and Volatile Organics (BTEX, EPA Method 8021B).

On July 20, 2023, Talon personnel returned to the location to remove additional impacted soils located around confirmation sample locations C-1, C-2, C-3, and SW-3. Composite samples were taken and were transported with the chain of custody to Cardinal Laboratories, for analysis of Total Chlorides (SM4500Cl-B), Total Petroleum Hydrocarbons (TPH, EPA Method 8015M) and Volatile Organics (BTEX, EPA Method 8021B).

On July 27, 2023, Talon personnel returned to the location to remove additional impacted soils located around sample location SW-3. A composite sample was collected and transported with the chain of custody to Cardinal Laboratories, for analysis of Total Chlorides (SM4500Cl-B), Total Petroleum Hydrocarbons (TPH, EPA Method 8015M) and Volatile Organics (BTEX, EPA Method 8021B).

The analytical results from the laboratory analyses are summarized below in Table 2. Sample locations are illustrated on Figure 2 in [Appendix I](#) and complete laboratory analytical reports are presented in [Appendix V](#).

**Table 2**  
**Confirmation Analytical Data**

Amoco 1 Fed 2									
Sample ID	Sample Date	Depth (BGS)	Benzene mg/kg	BTEX mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Chlorides mg/kg
NMOCD Table 1 Closure Criteria 19.15.29 NMAC			10 mg/kg	50 mg/kg	DRO + GRO + MRO combined = 100 mg/kg			100 mg/kg	600 mg/kg
C-1	7/13/23	2'	ND	ND	ND	102	103	205	80
	7/20/23	2.5'	ND	ND	ND	ND	ND	-	32
C-2	7/13/23	2'	ND	ND	ND	107	116	223	96
	7/20/23	2.5'	ND	ND	ND	ND	ND	-	64
C-3	7/13/23	2'	ND	ND	ND	206	201	407	160
	7/20/23	2.5'	ND	ND	ND	ND	ND	-	80
C-4	7/13/23	2'	ND	ND	ND	36.6	45.4	82	112
SW-1	7/13/23		ND	ND	ND	ND	ND	-	208
SW-2	7/13/23		ND	ND	ND	ND	ND	-	240
SW-3	7/13/23		ND	ND	ND	97.2	92.4	189.6	64
	7/20/23		ND	ND	ND	728	504	1232	208
	7/27/23		ND	ND	ND	ND	ND	-	64
SW-4	7/13/23		ND	ND	ND	47	41.7	88.7	320

**NOTES:**

**BGS** Below ground surface

**mg/kg** Milligrams per kilogram

**TPH** Total Petroleum Hydrocarbons

**GRO** Gasoline range organics

**DRO** Diesel range organics

**MRO** Motor oil range organics

**C** Confirmation Sample

**SW** Sidewall Sample

**ND** Analyte Not Detected

**Highlighted cells indicate exceedance of NMOCD Table 1 Closure Criteria**

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### Regulatory Response

On September 26, 2023, the NMOCD denied the submitted closure report. The NMOCD stated that samples S-2 and S-4 exceed closure criteria at 4 feet bgs. Table 1 with July 2023 dates, indicate that excavation extended to a maximum depth of 2.5 feet bgs, not addressing the impacted soil discovered during the January 2023 delineation activities. Photograph No. 4 included in the submitted report, depicts a seam of discolored soil. The report does not detail if this soil was excavated or sample per 19.15.29.12 D(1) NMAC.

### Corrective Action

On November 2, 2023, Talon personnel returned to the location and excavated the historical release area to a depth of five (5) feet bgs. Confirmation samples were collected and the excavation was photographed. All soil samples were packaged in laboratory provided glassware, preserved on ice, and transported with the chain of custody to Envirotech, Inc., in Farmington, New Mexico for analysis of Total Chlorides (EPA Method 300.0), Total Petroleum Hydrocarbons (TPH, EPA Method 8015D) and Volatile Organics (BTEX, EPA Method 8021B). The analytical results from the laboratory analyses are summarized below in Table 3. Sample locations are illustrated on Figure 2 in [Appendix I](#) and complete laboratory analytical reports are presented in [Appendix V](#).

**Table 3**  
**Corrective Analytical Data**

Amoco 1 Fed 2									
Sample ID	Sample Date	Depth (BGS)	Benzene mg/kg	BTEX mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Chlorides mg/kg
NMOCD Table 1 Closure Criteria 19.15.29 NMAC			10 mg/kg	50 mg/kg	DRO + GRO + MRO combined = 100 mg/kg			100 mg/kg	600 mg/kg
C-1	11/2/2023	5'	ND	ND	ND	ND	ND	-	ND
C-2	11/2/2023	5'	ND	ND	ND	ND	ND	-	ND
C-3	11/2/2023	5'	ND	ND	ND	ND	ND	-	ND
C-4	11/2/2023	5'	ND	ND	ND	ND	ND	-	ND
SW-1	11/2/2023		ND	ND	ND	ND	ND	-	ND
SW-2	11/2/2023		ND	ND	ND	ND	ND	-	ND
SW-3	11/2/2023		ND	ND	ND	ND	ND	-	ND
SW-4	11/2/2023		ND	ND	ND	ND	ND	-	ND

**NOTES:**

**BGS** Below ground surface

**mg/kg** Milligrams per kilogram

**TPH** Total Petroleum Hydrocarbons

**GRO** Gasoline range organics

**DRO** Diesel range organics

**MRO** Motor oil range organics

**C** Confirmation Sample

**SW** Sidewall Sample

**ND** Analyte Not Detected

**Highlighted cells indicate exceedance of NMOCD Table 1 Closure Criteria**

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### Remedial Action Summary

- The entire impacted area was excavated to depth of five (5) feet bgs. Talon personnel field titrated soil samples for total chlorides to guide the vertical and horizontal extents of the excavation process.
- Pursuant to NMOCD guidance, confirmation soil samples were collected at 200 square foot intervals and analyzed for TPH, BTEX and Total Chlorides to insure all areas had reached NMOCD closure criteria.
- The excavated areas were backfilled with locally sourced, clean, non-impacted topsoil, machine compacted, and contoured to match the surrounding pasture.
- Photographic documentation is provided in [Appendix IV](#).
- Copies of the Final C-141s are presented in [Appendix III](#).

### Closure

Based upon the completed remedial actions and confirmation sampling results, on behalf of Matador Resources, we respectfully request that no further actions be required and the incident closed.

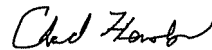
Should you have any questions or if further information is required, please do not hesitate to contact our office at 575-746-8768.

Respectfully submitted,

Talon/LPE



Matthew Gomez  
Project Manager



Chad Hensley  
Senior Project Manager

#### Attachments:

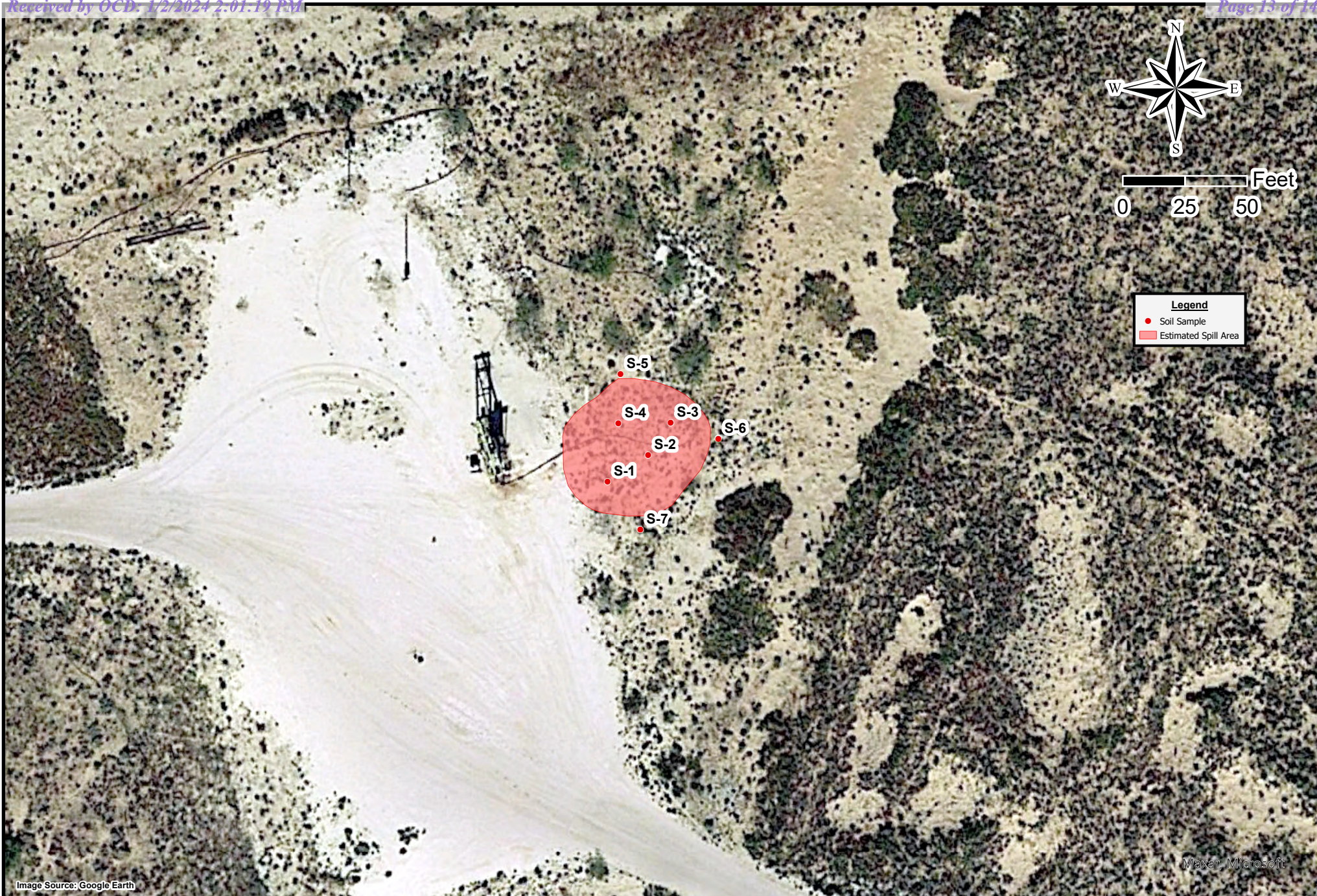
- Appendix I Site Maps
- Appendix II Groundwater Data, Soil Survey, FEMA Flood Map
- Appendix III C-141 Forms, NMOCD Correspondence
- Appendix IV Photographic Documentation
- Appendix V Laboratory Analytical Reports



## Appendix I

### Site Maps

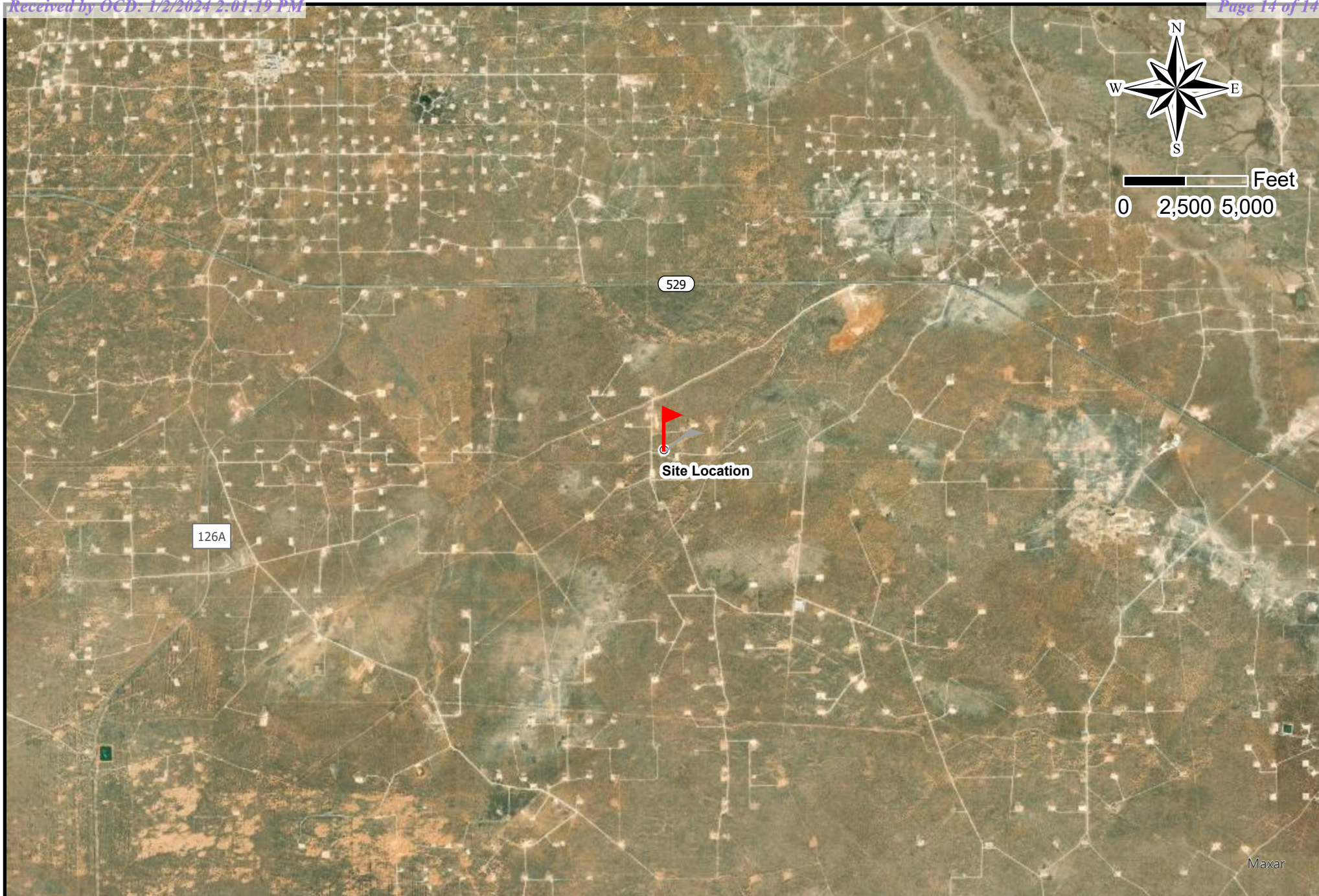




Drafted: 2/6/2023  
1 in = 50 ft  
Drafted By: IJR

Matador Resources  
MatadorAmoco1Fed#002  
Sandoval County, New Mexico  
Figure 1 - Site Assessment Map

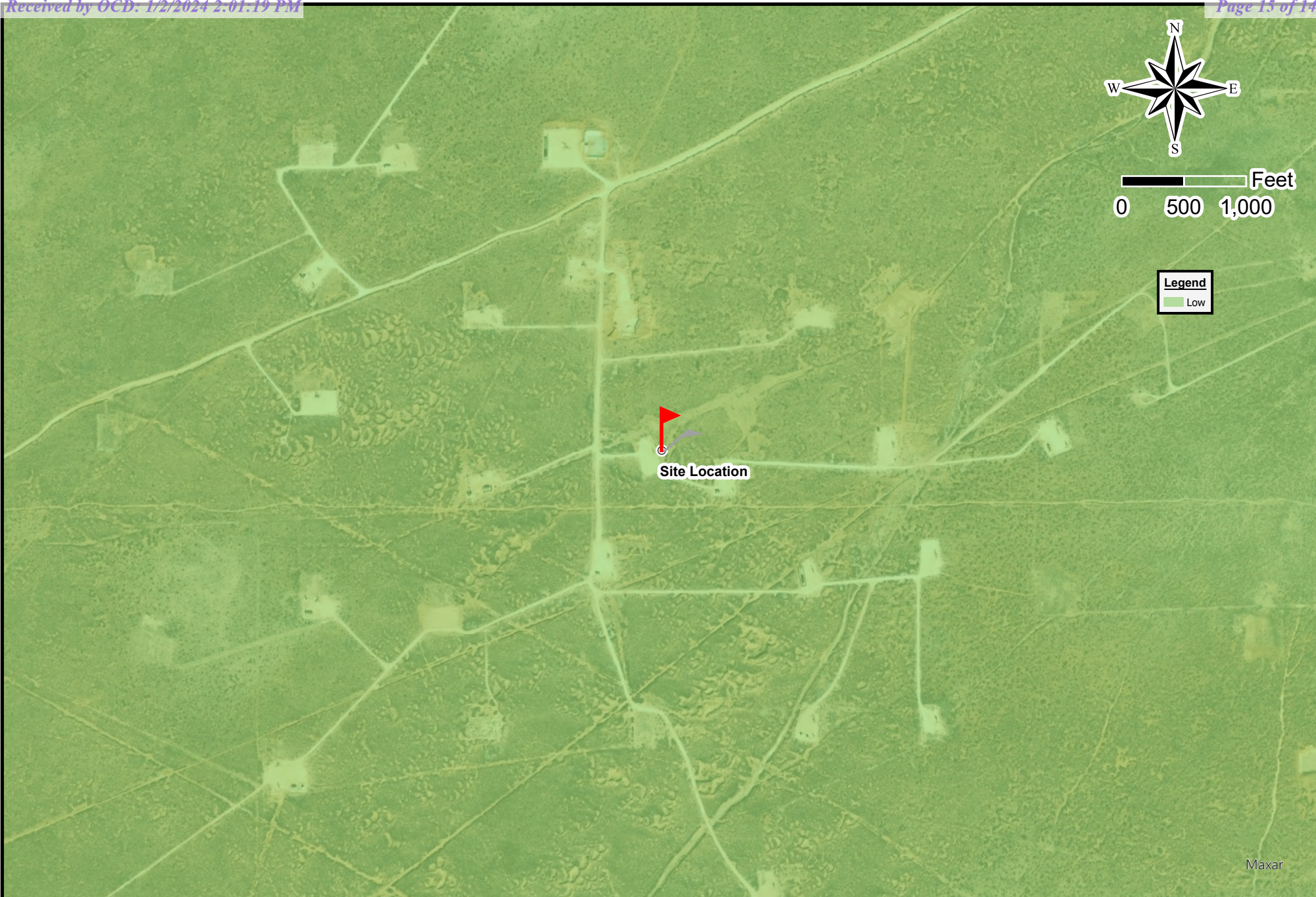




Drafted: 2/6/2023  
1 in = 5,000 ft  
Drafted By: IJR

Matador Resources  
MatadorAmoco1Fed#002  
Sandoval County, New Mexico  
Figure 2 - Site Location Map





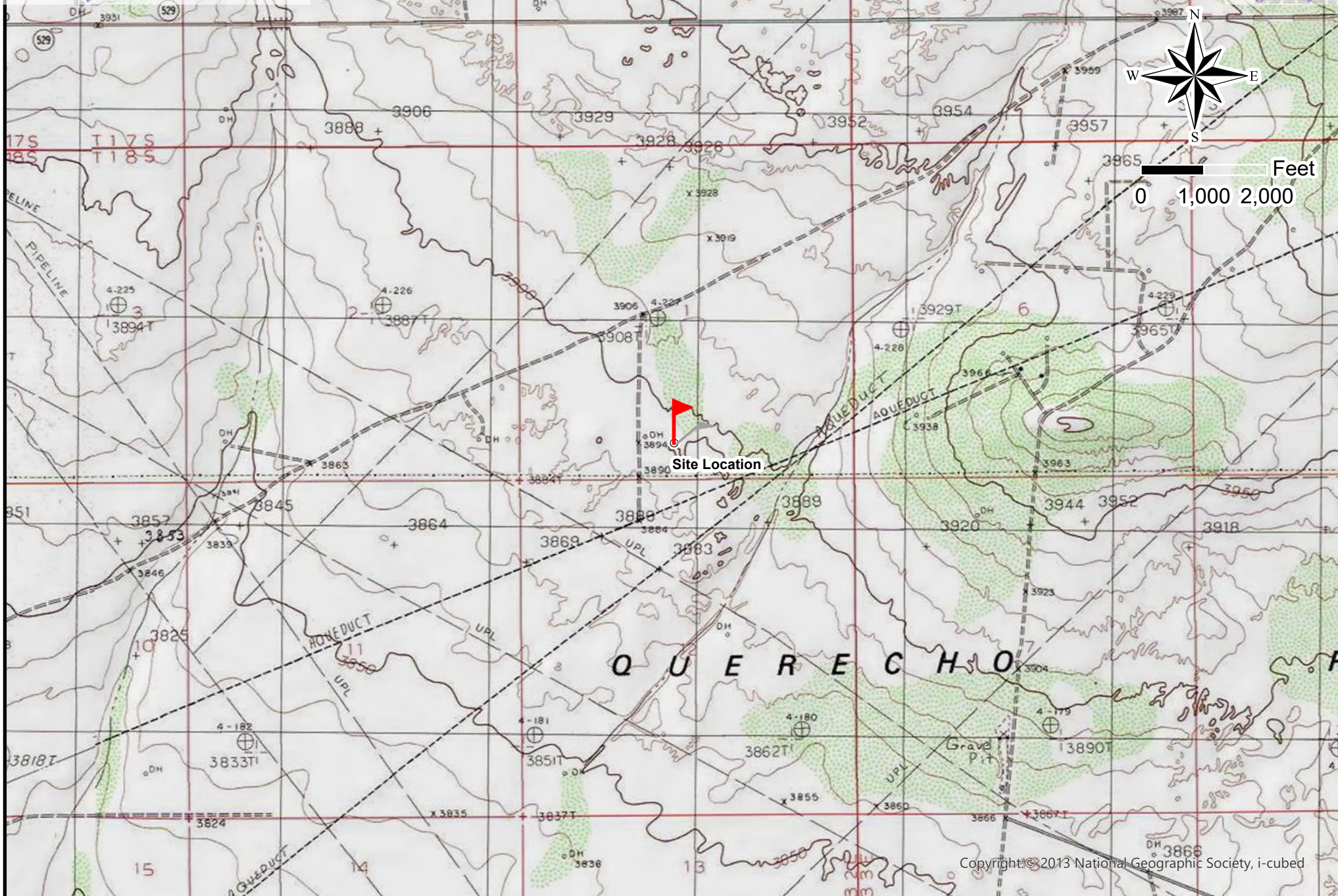
Maxar



Drafted: 2/6/2023  
1 in = 1,000 ft  
Drafted By: IJR

Matador Resources  
Matador Amoco1 Fed# 002 Á  
SæCounty, New Mexico  
Figure 3 - Karst Map





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Drafted: 2/6/2023

1 in = 2,000 ft

Drafted By: IJR

Matador Resources  
 MatadorAmoco1Fed#002  
 Sæ County, New Mexico  
 Figure 4 - Topographic Map





Image Source: Google Earth



Drafted: 9/7/2023

1 in = 50 ft

Drafted By: JAI

Matador Resources  
Matador Amoco 1 Fed #002  
Sandoval County, New Mexico  
Figure 5 Excavation Map





## **Appendix II**

Groundwater Data

Soil Survey

FEMA Flood Map



(R=POD has been replaced,  
O=orphaned,  
C=the file is closed)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

Average Depth to Water:	100 feet
Minimum Depth:	100 feet
Maximum Depth:	100 feet

**UTMNAD83 Radius Search (in meters):**

**Easting (X):** 619829.36

**Northing (Y):** 3626594.9

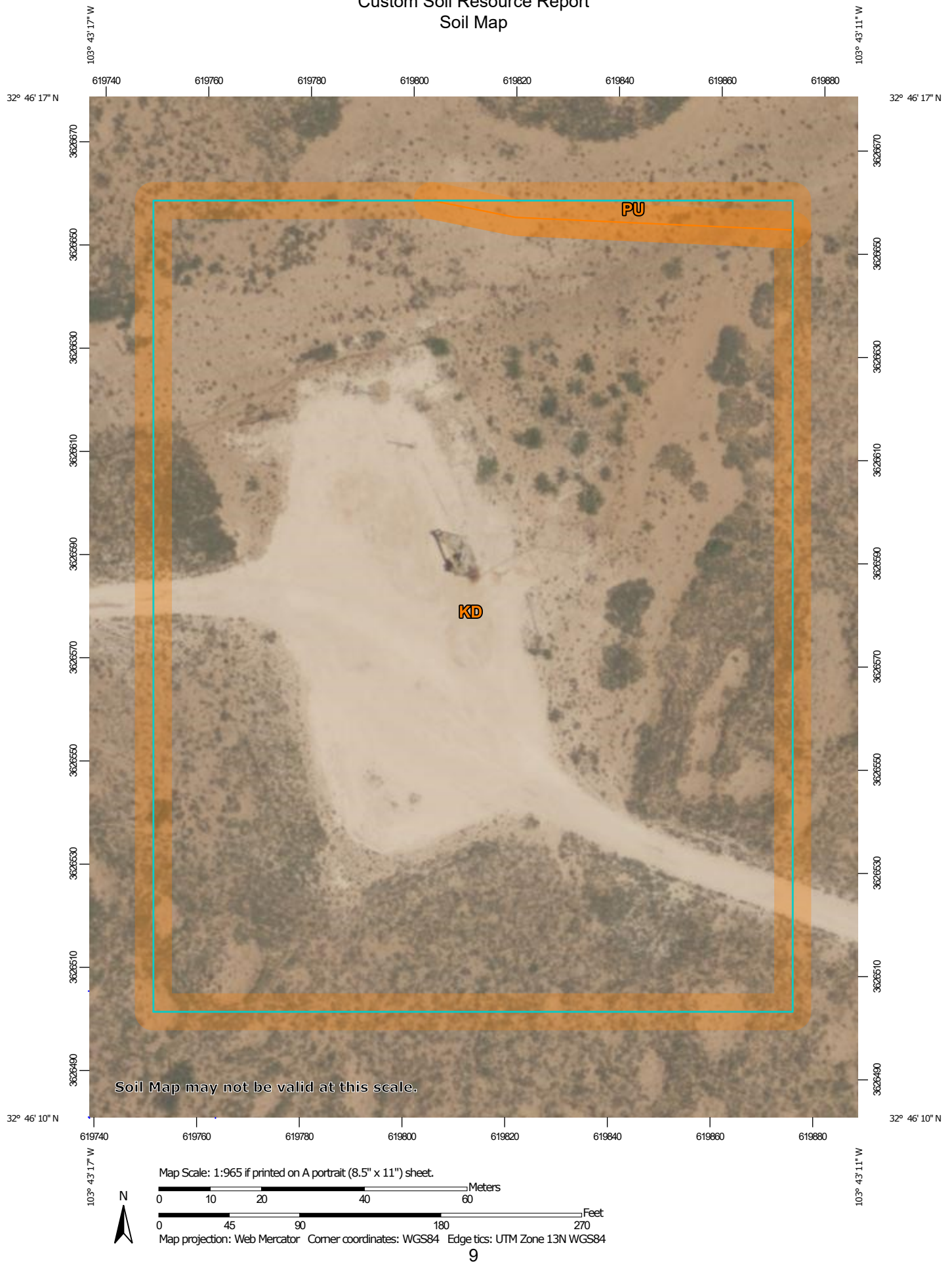
**Radius:** 3000

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.

1/26/23 10:27 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

Custom Soil Resource Report  
Soil Map





## Custom Soil Resource Report

## Lea County, New Mexico

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

## Map Unit Setting

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

## Map Unit Composition

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

## Description of Kermit

## Setting

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

## Typical profile

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

## Properties and qualities

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

## Interpretive groups

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

## Description of Palomas

## Setting

*Landform:* Dunes

## Custom Soil Resource Report

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

*Landform position (three-dimensional):* Side slope

*Down-slope shape:* Convex, linear, concave

*Across-slope shape:* Convex

*Parent material:* Alluvium derived from sandstone

**Typical profile**

*A - 0 to 16 inches:* fine sand

*Bt - 16 to 60 inches:* sandy clay loam

*Bk - 60 to 66 inches:* sandy loam

**Properties and qualities**

*Slope:* 0 to 5 percent

*Depth to restrictive feature:* More than 80 inches

*Drainage class:* Well drained

*Runoff class:* Low

*Capacity of the most limiting layer to transmit water (Ksat):* Moderately high to high  
(0.60 to 2.00 in/hr)

*Depth to water table:* More than 80 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Calcium carbonate, maximum content:* 50 percent

*Gypsum, maximum content:* 1 percent

*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

*Sodium adsorption ratio, maximum:* 2.0

*Available water supply, 0 to 60 inches:* Moderate (about 7.5 inches)

**Interpretive groups**

*Land capability classification (irrigated):* None specified

*Land capability classification (nonirrigated):* 7e

*Hydrologic Soil Group:* B

*Ecological site:* R070BD003NM - Loamy Sand

*Hydric soil rating:* No

**Minor Components****Pyote**

*Percent of map unit:* 4 percent

*Ecological site:* R070BD003NM - Loamy Sand

*Hydric soil rating:* No

**Maljamar**

*Percent of map unit:* 4 percent

*Ecological site:* R070BD003NM - Loamy Sand

*Hydric soil rating:* No

**Palomas**

*Percent of map unit:* 1 percent

*Ecological site:* R070BD003NM - Loamy Sand

*Hydric soil rating:* No

**Dune land**

*Percent of map unit:* 1 percent

*Hydric soil rating:* No

## Custom Soil Resource Report

**PU—Pyote and Maljamar fine sands****Map Unit Setting**

*National map unit symbol:* dmqq  
*Elevation:* 3,000 to 3,900 feet  
*Mean annual precipitation:* 10 to 12 inches  
*Mean annual air temperature:* 60 to 62 degrees F  
*Frost-free period:* 190 to 205 days  
*Farmland classification:* Not prime farmland

**Map Unit Composition**

*Pyote and similar soils:* 46 percent  
*Maljamar and similar soils:* 44 percent  
*Minor components:* 10 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

**Description of Pyote****Setting**

*Landform:* Plains  
*Landform position (three-dimensional):* Rise  
*Down-slope shape:* Linear  
*Across-slope shape:* Linear  
*Parent material:* Sandy eolian deposits derived from sedimentary rock

**Typical profile**

*A - 0 to 30 inches:* fine sand  
*Bt - 30 to 60 inches:* fine sandy loam

**Properties and qualities**

*Slope:* 0 to 3 percent  
*Depth to restrictive feature:* More than 80 inches  
*Drainage class:* Well drained  
*Runoff class:* Negligible  
*Capacity of the most limiting layer to transmit water (Ksat):* High (2.00 to 6.00 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum content:* 5 percent  
*Gypsum, maximum content:* 1 percent  
*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)  
*Sodium adsorption ratio, maximum:* 2.0  
*Available water supply, 0 to 60 inches:* Low (about 5.1 inches)

**Interpretive groups**

*Land capability classification (irrigated):* 6e  
*Land capability classification (nonirrigated):* 7s  
*Hydrologic Soil Group:* A

## Custom Soil Resource Report

*Ecological site:* R070BD003NM - Loamy Sand

*Hydric soil rating:* No

**Description of Maljamar****Setting**

*Landform:* Plains

*Landform position (three-dimensional):* Rise

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Parent material:* Sandy eolian deposits derived from sedimentary rock

**Typical profile**

*A - 0 to 24 inches:* fine sand

*Bt - 24 to 50 inches:* sandy clay loam

*Bkm - 50 to 60 inches:* cemented material

**Properties and qualities**

*Slope:* 0 to 3 percent

*Depth to restrictive feature:* 40 to 60 inches to petrocalcic

*Drainage class:* Well drained

*Runoff class:* Very low

*Capacity of the most limiting layer to transmit water (Ksat):* Very low to moderately low (0.00 to 0.06 in/hr)

*Depth to water table:* More than 80 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Calcium carbonate, maximum content:* 5 percent

*Gypsum, maximum content:* 1 percent

*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

*Sodium adsorption ratio, maximum:* 2.0

*Available water supply, 0 to 60 inches:* Low (about 5.6 inches)

**Interpretive groups**

*Land capability classification (irrigated):* 6e

*Land capability classification (nonirrigated):* 7e

*Hydrologic Soil Group:* B

*Ecological site:* R070BD003NM - Loamy Sand

*Hydric soil rating:* No

**Minor Components****Kermit**

*Percent of map unit:* 10 percent

*Ecological site:* R070BC022NM - Sandhills

*Hydric soil rating:* No



# National Flood Hazard Layer FIRMette



103°43'33"W 32°46'30"N



## Legend

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

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



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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 1/26/2023 at 12:30 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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



## **Appendix III**

C-141 Forms

NMOCD Correspondence

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

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

Form C-141  
Revised August 24, 2018  
Submit to appropriate OCD District office

Incident ID	ÞVUFI FJFÍ Î €JÎ
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	Matador Resources	OGRID	228937
Contact Name	Clinton Talley	Contact Telephone	337-319-8398
Contact email	clinton.talley@matadorresources.com	Incident # (assigned by OCD)	ÞVUFI FJFÍ Î €JÎ
Contact mailing address	5347 N. 26th Street 2nd Floor, Artesia, NM 88210		

Location of Release Source

Latitude 32.7706909 Longitude -103.7209167  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Site Type
Date Release Discovered	API# (if applicable) 30-025-29848

Unit Letter	Section	Township	Range	County
N	01	18S	32E	Lea

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (Name: \_\_\_\_\_)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 4	Volume Recovered (bbls) 3
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

Hole in flow line

Incident ID	POVUFI FJFI Î EUÎ
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Application ID	

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

### Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped.	
<input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment.	
<input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
<input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Clinton Talley</u>	Title: <u>EHS</u>
Signature: <u><i>Clint Talley</i></u>	Date: <u>12/13/2023</u>
email: <u>clinton.talley@matadorresources.com</u>	Telephone: <u>337-319-8398</u>
<b><u>OCD Only</u></b>	
Received by: _____	Date: _____



Incident ID	ÐVUFI FJFÍ Î €JÎ
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Facility ID	
Application ID	

Site Assessment/Characterization

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?	<u>100</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

<p><b>Characterization Report Checklist:</b> <i>Each of the following items must be included in the report.</i></p> <ul style="list-style-type: none"><li><input checked="" type="checkbox"/> Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.</li><li><input checked="" type="checkbox"/> Field data</li><li><input checked="" type="checkbox"/> Data table of soil contaminant concentration data</li><li><input checked="" type="checkbox"/> Depth to water determination</li><li><input checked="" type="checkbox"/> Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release</li><li><input checked="" type="checkbox"/> Boring or excavation logs</li><li><input checked="" type="checkbox"/> Photographs including date and GIS information</li><li><input checked="" type="checkbox"/> Topographic/Aerial maps</li><li><input checked="" type="checkbox"/> Laboratory data including chain of custody</li></ul>
---

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

State of New Mexico  
Oil Conservation Division

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

Printed Name: Clinton Talley Title: EHSSignature: Clint Talley Date: 12/13/2023email: clinton.talley@matadorresources.com Telephone: 337-319-8398**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

Incident ID	PVUFI FJFI Î €JÎ
District RP	
Facility ID	
Application ID	

## Closure

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 (electronic submittals in .pdf format are preferred) 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.

**Closure Report Attachment Checklist:** *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

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.

Printed Name: Clinton Talley Title: EHS  
Signature: Clint Talley Date: 12/13/2023  
email: clinton.talley@matadorresources.com Telephone: 337-319-8398

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_

**From:** [Wells, Shelly, EMNRD](#)  
**To:** [Chad Hensley](#)  
**Cc:** [Bratcher, Michael, EMNRD](#); [Maxwell, Ashley, EMNRD](#)  
**Subject:** RE: [EXTERNAL] Confirmation Sampling Event  
**Date:** Wednesday, August 9, 2023 4:27:10 PM  
**Attachments:** [image001.png](#)  
[image002.png](#)

This message originated from an **External Source**. Please use proper judgment and caution when opening attachments, clicking links, or responding to this email.

Hi Chad,

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thank you,

Shelly

[Shelly Wells](#) \* Environmental Specialist-Advanced  
Environmental Bureau  
EMNRD-Oil Conservation Division  
1220 S. St. Francis Drive | Santa Fe, NM 87505  
(505)469-7520 | [Shelly.Wells@emnrd.nm.gov](mailto:Shelly.Wells@emnrd.nm.gov)  
<http://www.emnrd.state.nm.us/OCD/>

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**From:** Chad Hensley <[chensley@talonlpe.com](mailto:chensley@talonlpe.com)>  
**Sent:** Wednesday, August 9, 2023 3:31 PM  
**To:** Enviro, OCD, EMNRD <[OCD.Enviro@emnrd.nm.gov](mailto:OCD.Enviro@emnrd.nm.gov)>  
**Cc:** Nathaniel Rose <[nrose@talonlpe.com](mailto:nrose@talonlpe.com)>  
**Subject:** [EXTERNAL] Confirmation Sampling Event

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

To whom it may concern,

Talon on behalf of Matador is conducting a sampling event for:

Amoco 1 Federal #002  
nTO1419156096  
8/15/2023 at 11am

**Chad Hensley**  
**Environmental Project Manager**  
Office: 575.746.8768 x708  
Direct: 575.616.4023  
Cell: 575.246.0032  
Fax: 575.746.8905  
Emergency: 866.742.0742

Web: [www.talonlpe.com](http://www.talonlpe.com)



At Talon/LPE, we are quality in all things, including communication. Have a question? Need a quote? Send an email to [clientrelations@talonlpe.com](mailto:clientrelations@talonlpe.com).



## **Appendix IV**

### Photo Documentation





Amoco 1 Federal 2  
Lea County, NM



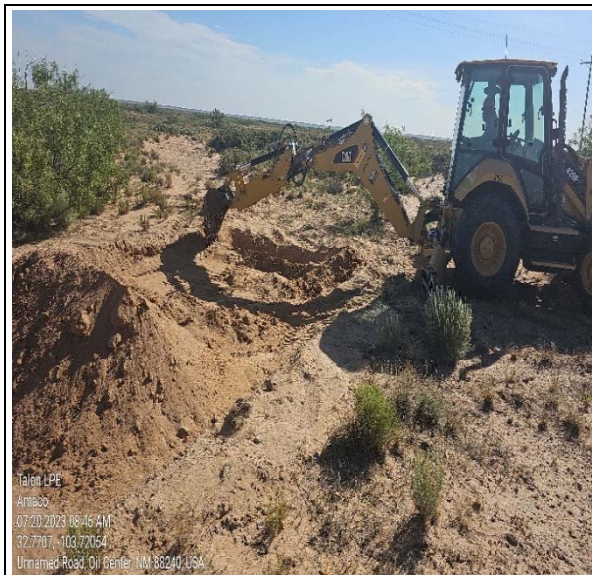
**Photograph No.1 Description:**

Aerial photograph of location



**Photograph No.2 Description:**

Historical release area



**Photograph No.3 Description:**

Remediation in progress



**Photograph No.4 Description:**

Photograph illustrating rock formation  
present on location





Amoco 1 Federal 2  
Lea County, NM



**Photograph No.5 Description:**

Excavation five (5) foot bgs



**Photograph No.6 Description:**

Excavation five (5) foot bgs



**Photograph No.7 Description:**

Backfilled location





## **Appendix V**

### Laboratory Reports



Environment Testing

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# ANALYTICAL REPORT

## PREPARED FOR

Attn: M Gomez  
Talon/LPE  
408 W. Texas St.  
Artesia, New Mexico 88210

Generated 2/13/2023 4:28:14 PM

## JOB DESCRIPTION

Amoco 1 Fed 2  
SDG NUMBER Lea County NM

## JOB NUMBER

890-4003-1

Eurofins Carlsbad  
1089 N Canal St.  
Carlsbad NM 88220

# Eurofins Carlsbad

## Job Notes

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

## Authorization



Generated  
2/13/2023 4:28:14 PM

Authorized for release by  
Jessica Kramer, Project Manager  
[Jessica.Kramer@et.eurofinsus.com](mailto:Jessica.Kramer@et.eurofinsus.com)  
(432)704-5440

Client: Talon/LPE  
Project/Site: Amoco 1 Fed 2

Laboratory Job ID: 890-4003-1  
SDG: Lea County NM

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Definitions/Glossary

Client: Talon/LPE  
Project/Site: Amoco 1 Fed 2

Job ID: 890-4003-1  
SDG: Lea County NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)

Definitions/Glossary

Client: Talon/LPE  
Project/Site: Amoco 1 Fed 2

Job ID: 890-4003-1  
SDG: Lea County NM

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

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## Case Narrative

Client: Talon/LPE  
Project/Site: Amoco 1 Fed 2

Job ID: 890-4003-1  
SDG: Lea County NM

**Job ID: 890-4003-1****Laboratory: Eurofins Carlsbad****Narrative****Job Narrative  
890-4003-1****Receipt**

The samples were received on 1/31/2023 4:46 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.8°C

**Receipt Exceptions**

The following samples were received and analyzed from an unpreserved bulk soil jar: S-1 (890-4003-1), S-1 (890-4003-2), S-1 (890-4003-3), S-2 (890-4003-4), S-2 (890-4003-5), S-2 (890-4003-6), S-3 (890-4003-7), S-3 (890-4003-8), S-3 (890-4003-9), S-4 (890-4003-10), S-4 (890-4003-11), S-4 (890-4003-12), S-5 (890-4003-13), S-6 (890-4003-14) and S-7 (890-4003-15).

**GC VOA**

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-45533 and 880-45568 and analytical batch 880-45544 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: S-1 (890-4003-1), S-1 (890-4003-3), S-2 (890-4003-4), S-3 (890-4003-8) and S-5 (890-4003-13). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

**GC Semi VOA**

Method 8015MOD\_NM: The surrogate recovery for the blank associated with preparation batch 880-45688 and analytical batch 880-45831 was outside the upper control limits.

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-45688/2-A) and (LCSD 880-45688/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: (880-24205-A-1-E MS) and (880-24205-A-1-F MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD\_NM: The method blank for preparation batch 880-45688 and analytical batch 880-45831 contained Gasoline Range Organics (GRO)-C6-C10 above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD\_NM: The surrogate recovery for the blank associated with preparation batch 880-45662 and analytical batch 880-45951 was outside the control limits.

Method 8015MOD\_NM: Surrogate recovery for the following sample was outside control limits: (890-4008-A-3-C). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: S-1 (890-4003-1), S-1 (890-4003-2) and (890-4008-A-3-E MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: S-1 (890-4003-3), S-2 (890-4003-4), S-2 (890-4003-5), S-2 (890-4003-6), S-3 (890-4003-7), S-3 (890-4003-8), S-3 (890-4003-9), S-4 (890-4003-10), S-4 (890-4003-11) and S-4 (890-4003-12). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD\_NM: The method blank for preparation batch 880-45662 and analytical batch 880-45951 contained Gasoline Range Organics (GRO)-C6-C10 above the method detection limit. This target analyte concentration was less than the reporting limit (RL);

Case Narrative

Client: Talon/LPE  
Project/Site: Amoco 1 Fed 2

Job ID: 890-4003-1  
SDG: Lea County NM

Job ID: 890-4003-1 (Continued)

Laboratory: Eurofins Carlsbad (Continued)

therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD\_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-45662 and analytical batch 880-45951 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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## Client Sample Results

Client: Talon/LPE  
Project/Site: Amoco 1 Fed 2

Job ID: 890-4003-1  
SDG: Lea County NM

Client Sample ID: S-1

Lab Sample ID: 890-4003-1

Date Collected: 01/25/23 13:00

Matrix: Solid

Date Received: 01/31/23 16:46

Sample Depth: 0-1'

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000386	U	0.00200	0.000386	mg/Kg		02/05/23 11:26	02/06/23 18:35	1
Toluene	<0.000457	U	0.00200	0.000457	mg/Kg		02/05/23 11:26	02/06/23 18:35	1
Ethylbenzene	<0.000566	U	0.00200	0.000566	mg/Kg		02/05/23 11:26	02/06/23 18:35	1
m-Xylene & p-Xylene	<0.00101	U	0.00401	0.00101	mg/Kg		02/05/23 11:26	02/06/23 18:35	1
o-Xylene	<0.000345	U	0.00200	0.000345	mg/Kg		02/05/23 11:26	02/06/23 18:35	1
Xylenes, Total	<0.00101	U	0.00401	0.00101	mg/Kg		02/05/23 11:26	02/06/23 18:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	67	S1-	70 - 130	02/05/23 11:26	02/06/23 18:35	1
1,4-Difluorobenzene (Surr)	73		70 - 130	02/05/23 11:26	02/06/23 18:35	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00401	0.00101	mg/Kg			02/07/23 09:48	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	73.7		49.9	15.0	mg/Kg			02/13/23 17:08	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	46.9	J B *1	49.9	15.0	mg/Kg		02/07/23 09:24	02/11/23 00:11	1
Diesel Range Organics (Over C10-C28)	26.8	J	49.9	15.0	mg/Kg		02/07/23 09:24	02/11/23 00:11	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		02/07/23 09:24	02/11/23 00:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	56	S1-	70 - 130	02/07/23 09:24	02/11/23 00:11	1
o-Terphenyl	61	S1-	70 - 130	02/07/23 09:24	02/11/23 00:11	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	121		5.05	0.399	mg/Kg			02/05/23 11:50	1

Client Sample ID: S-1

Lab Sample ID: 890-4003-2

Date Collected: 01/25/23 13:03

Matrix: Solid

Date Received: 01/31/23 16:46

Sample Depth: 2'

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000384	U	0.00200	0.000384	mg/Kg		02/05/23 11:26	02/06/23 18:56	1
Toluene	<0.000455	U	0.00200	0.000455	mg/Kg		02/05/23 11:26	02/06/23 18:56	1
Ethylbenzene	<0.000564	U	0.00200	0.000564	mg/Kg		02/05/23 11:26	02/06/23 18:56	1
m-Xylene & p-Xylene	<0.00101	U	0.00399	0.00101	mg/Kg		02/05/23 11:26	02/06/23 18:56	1
o-Xylene	<0.000343	U	0.00200	0.000343	mg/Kg		02/05/23 11:26	02/06/23 18:56	1
Xylenes, Total	<0.00101	U	0.00399	0.00101	mg/Kg		02/05/23 11:26	02/06/23 18:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	02/05/23 11:26	02/06/23 18:56	1

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## Client Sample Results

Client: Talon/LPE  
Project/Site: Amoco 1 Fed 2

Job ID: 890-4003-1  
SDG: Lea County NM

Client Sample ID: S-1

Lab Sample ID: 890-4003-2

Date Collected: 01/25/23 13:03

Matrix: Solid

Date Received: 01/31/23 16:46

Sample Depth: 2'

## Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	103		70 - 130	02/05/23 11:26	02/06/23 18:56	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00399	0.00101	mg/Kg			02/07/23 09:48	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	71.5		49.9	15.0	mg/Kg			02/13/23 17:08	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	46.1	J B *1	49.9	15.0	mg/Kg		02/07/23 09:24	02/11/23 00:34	1
Diesel Range Organics (Over C10-C28)	25.4	J	49.9	15.0	mg/Kg		02/07/23 09:24	02/11/23 00:34	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		02/07/23 09:24	02/11/23 00:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	48	S1-	70 - 130				02/07/23 09:24	02/11/23 00:34	1
o-Terphenyl	52	S1-	70 - 130				02/07/23 09:24	02/11/23 00:34	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	117		5.00	0.395	mg/Kg			02/05/23 12:08	1

Client Sample ID: S-1

Lab Sample ID: 890-4003-3

Date Collected: 01/25/23 13:09

Matrix: Solid

Date Received: 01/31/23 16:46

Sample Depth: 4'

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000387	U	0.00201	0.000387	mg/Kg		02/05/23 11:26	02/06/23 19:17	1
Toluene	0.000759	J	0.00201	0.000459	mg/Kg		02/05/23 11:26	02/06/23 19:17	1
Ethylbenzene	<0.000568	U	0.00201	0.000568	mg/Kg		02/05/23 11:26	02/06/23 19:17	1
m-Xylene & p-Xylene	<0.00102	U	0.00402	0.00102	mg/Kg		02/05/23 11:26	02/06/23 19:17	1
o-Xylene	<0.000346	U	0.00201	0.000346	mg/Kg		02/05/23 11:26	02/06/23 19:17	1
Xylenes, Total	<0.00102	U	0.00402	0.00102	mg/Kg		02/05/23 11:26	02/06/23 19:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	51	S1-	70 - 130	02/05/23 11:26	02/06/23 19:17	1
1,4-Difluorobenzene (Surr)	79		70 - 130	02/05/23 11:26	02/06/23 19:17	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00402	0.00102	mg/Kg			02/07/23 09:48	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	66.7		49.9	15.0	mg/Kg			02/13/23 17:08	1

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## Client Sample Results

Client: Talon/LPE  
Project/Site: Amoco 1 Fed 2

Job ID: 890-4003-1  
SDG: Lea County NM

## Client Sample ID: S-1

Lab Sample ID: 890-4003-3

Date Collected: 01/25/23 13:09

Matrix: Solid

Date Received: 01/31/23 16:46

Sample Depth: 4'

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	38.2	J B *1	49.9	15.0	mg/Kg		02/07/23 09:24	02/11/23 01:17	1
Diesel Range Organics (Over C10-C28)	28.5	J	49.9	15.0	mg/Kg		02/07/23 09:24	02/11/23 01:17	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		02/07/23 09:24	02/11/23 01:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	55	S1-	70 - 130				02/07/23 09:24	02/11/23 01:17	1
o-Terphenyl	60	S1-	70 - 130				02/07/23 09:24	02/11/23 01:17	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	179		4.99	0.394	mg/Kg			02/05/23 12:14	1

## Client Sample ID: S-2

Lab Sample ID: 890-4003-4

Date Collected: 01/25/23 13:10

Matrix: Solid

Date Received: 01/31/23 16:46

Sample Depth: 0-1'

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg		02/05/23 11:26	02/06/23 19:38	1
Toluene	<0.000454	U	0.00199	0.000454	mg/Kg		02/05/23 11:26	02/06/23 19:38	1
Ethylbenzene	<0.000563	U	0.00199	0.000563	mg/Kg		02/05/23 11:26	02/06/23 19:38	1
m-Xylene & p-Xylene	<0.00101	U	0.00398	0.00101	mg/Kg		02/05/23 11:26	02/06/23 19:38	1
o-Xylene	<0.000343	U	0.00199	0.000343	mg/Kg		02/05/23 11:26	02/06/23 19:38	1
Xylenes, Total	<0.00101	U	0.00398	0.00101	mg/Kg		02/05/23 11:26	02/06/23 19:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130				02/05/23 11:26	02/06/23 19:38	1
1,4-Difluorobenzene (Surr)	67	S1-	70 - 130				02/05/23 11:26	02/06/23 19:38	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00398	0.00101	mg/Kg			02/07/23 09:48	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	63.5		49.9	15.0	mg/Kg			02/13/23 17:08	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	40.7	J B *1	49.9	15.0	mg/Kg		02/07/23 09:24	02/11/23 01:39	1
Diesel Range Organics (Over C10-C28)	22.8	J	49.9	15.0	mg/Kg		02/07/23 09:24	02/11/23 01:39	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		02/07/23 09:24	02/11/23 01:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	51	S1-	70 - 130				02/07/23 09:24	02/11/23 01:39	1
o-Terphenyl	56	S1-	70 - 130				02/07/23 09:24	02/11/23 01:39	1

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## Client Sample Results

Client: Talon/LPE  
Project/Site: Amoco 1 Fed 2

Job ID: 890-4003-1  
SDG: Lea County NM

## Client Sample ID: S-2

Lab Sample ID: 890-4003-4

Date Collected: 01/25/23 13:10

Matrix: Solid

Date Received: 01/31/23 16:46

Sample Depth: 0-1'

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	85.1		4.95	0.391	mg/Kg			02/05/23 12:20	1

## Client Sample ID: S-2

Lab Sample ID: 890-4003-5

Date Collected: 01/25/23 13:14

Matrix: Solid

Date Received: 01/31/23 16:46

Sample Depth: 2'

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000386	U	0.00200	0.000386	mg/Kg		02/05/23 11:26	02/06/23 19:59	1
Toluene	0.000525	J	0.00200	0.000457	mg/Kg		02/05/23 11:26	02/06/23 19:59	1
Ethylbenzene	<0.000566	U	0.00200	0.000566	mg/Kg		02/05/23 11:26	02/06/23 19:59	1
m-Xylene & p-Xylene	<0.00101	U	0.00401	0.00101	mg/Kg		02/05/23 11:26	02/06/23 19:59	1
o-Xylene	<0.000345	U	0.00200	0.000345	mg/Kg		02/05/23 11:26	02/06/23 19:59	1
Xylenes, Total	<0.00101	U	0.00401	0.00101	mg/Kg		02/05/23 11:26	02/06/23 19:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130				02/05/23 11:26	02/06/23 19:59	1
1,4-Difluorobenzene (Surr)	103		70 - 130				02/05/23 11:26	02/06/23 19:59	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00401	0.00101	mg/Kg			02/07/23 09:48	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	211		49.9	15.0	mg/Kg			02/13/23 17:08	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	47.6	J B *1	49.9	15.0	mg/Kg		02/07/23 09:24	02/11/23 02:01	1
Diesel Range Organics (Over C10-C28)	123		49.9	15.0	mg/Kg		02/07/23 09:24	02/11/23 02:01	1
Oil Range Organics (Over C28-C36)	40.5	J	49.9	15.0	mg/Kg		02/07/23 09:24	02/11/23 02:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	53	S1-	70 - 130				02/07/23 09:24	02/11/23 02:01	1
o-Terphenyl	56	S1-	70 - 130				02/07/23 09:24	02/11/23 02:01	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	54.0		4.97	0.393	mg/Kg			02/05/23 12:26	1

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## Client Sample Results

Client: Talon/LPE  
Project/Site: Amoco 1 Fed 2

Job ID: 890-4003-1  
SDG: Lea County NM

Client Sample ID: S-2

Lab Sample ID: 890-4003-6

Date Collected: 01/25/23 13:20

Matrix: Solid

Date Received: 01/31/23 16:46

Sample Depth: 4'

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg		02/05/23 11:26	02/06/23 20:19	1
<b>Toluene</b>	<b>0.00161</b>	<b>J</b>	0.00199	0.000453	mg/Kg		02/05/23 11:26	02/06/23 20:19	1
Ethylbenzene	<0.000562	U	0.00199	0.000562	mg/Kg		02/05/23 11:26	02/06/23 20:19	1
m-Xylene & p-Xylene	<0.00100	U	0.00398	0.00100	mg/Kg		02/05/23 11:26	02/06/23 20:19	1
o-Xylene	<0.000342	U	0.00199	0.000342	mg/Kg		02/05/23 11:26	02/06/23 20:19	1
Xylenes, Total	<0.00100	U	0.00398	0.00100	mg/Kg		02/05/23 11:26	02/06/23 20:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130				02/05/23 11:26	02/06/23 20:19	1
1,4-Difluorobenzene (Surr)	109		70 - 130				02/05/23 11:26	02/06/23 20:19	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total BTEX</b>	<b>0.00161</b>	<b>J</b>	0.00398	0.00100	mg/Kg			02/07/23 09:48	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total TPH</b>	<b>1460</b>		49.9	15.0	mg/Kg			02/13/23 17:08	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Gasoline Range Organics (GRO)-C6-C10</b>	<b>40.9</b>	<b>J B *1</b>	49.9	15.0	mg/Kg		02/07/23 09:24	02/11/23 02:22	1
<b>Diesel Range Organics (Over C10-C28)</b>	<b>1120</b>		49.9	15.0	mg/Kg		02/07/23 09:24	02/11/23 02:22	1
<b>Oil Range Organics (Over C28-C36)</b>	<b>298</b>		49.9	15.0	mg/Kg		02/07/23 09:24	02/11/23 02:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	52	S1-	70 - 130				02/07/23 09:24	02/11/23 02:22	1
o-Terphenyl	56	S1-	70 - 130				02/07/23 09:24	02/11/23 02:22	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>55.2</b>		5.05	0.399	mg/Kg			02/05/23 12:45	1

Client Sample ID: S-3

Lab Sample ID: 890-4003-7

Date Collected: 01/25/23 13:30

Matrix: Solid

Date Received: 01/31/23 16:46

Sample Depth: 0-1'

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg		02/06/23 10:43	02/07/23 04:18	1
<b>Toluene</b>	<b>0.0194</b>		0.00199	0.000453	mg/Kg		02/06/23 10:43	02/07/23 04:18	1
Ethylbenzene	<0.000562	U	0.00199	0.000562	mg/Kg		02/06/23 10:43	02/07/23 04:18	1
m-Xylene & p-Xylene	<0.00100	U	0.00398	0.00100	mg/Kg		02/06/23 10:43	02/07/23 04:18	1
o-Xylene	<0.000342	U	0.00199	0.000342	mg/Kg		02/06/23 10:43	02/07/23 04:18	1
Xylenes, Total	<0.00100	U	0.00398	0.00100	mg/Kg		02/06/23 10:43	02/07/23 04:18	1

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## Client Sample Results

Client: Talon/LPE  
Project/Site: Amoco 1 Fed 2

Job ID: 890-4003-1  
SDG: Lea County NM

Client Sample ID: S-3

Lab Sample ID: 890-4003-7

Date Collected: 01/25/23 13:30

Matrix: Solid

Date Received: 01/31/23 16:46

Sample Depth: 0-1'

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130	02/06/23 10:43	02/07/23 04:18	1
1,4-Difluorobenzene (Surr)	97		70 - 130	02/06/23 10:43	02/07/23 04:18	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0194		0.00398	0.00100	mg/Kg			02/07/23 09:48	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	311		50.0	15.0	mg/Kg			02/13/23 17:08	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	43.8	J B *1	50.0	15.0	mg/Kg		02/07/23 09:24	02/11/23 02:45	1
Diesel Range Organics (Over C10-C28)	196		50.0	15.0	mg/Kg		02/07/23 09:24	02/11/23 02:45	1
Oil Range Organics (Over C28-C36)	71.6		50.0	15.0	mg/Kg		02/07/23 09:24	02/11/23 02:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	51	S1-	70 - 130				02/07/23 09:24	02/11/23 02:45	1
o-Terphenyl	55	S1-	70 - 130				02/07/23 09:24	02/11/23 02:45	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	72.4		4.97	0.393	mg/Kg			02/05/23 12:51	1

Client Sample ID: S-3

Lab Sample ID: 890-4003-8

Date Collected: 01/25/23 13:33

Matrix: Solid

Date Received: 01/31/23 16:46

Sample Depth: 2'

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000381	U	0.00198	0.000381	mg/Kg		02/06/23 10:43	02/07/23 04:38	1
Toluene	0.000499	J	0.00198	0.000451	mg/Kg		02/06/23 10:43	02/07/23 04:38	1
Ethylbenzene	<0.000559	U	0.00198	0.000559	mg/Kg		02/06/23 10:43	02/07/23 04:38	1
m-Xylene & p-Xylene	<0.00100	U	0.00396	0.00100	mg/Kg		02/06/23 10:43	02/07/23 04:38	1
o-Xylene	<0.000341	U	0.00198	0.000341	mg/Kg		02/06/23 10:43	02/07/23 04:38	1
Xylenes, Total	<0.00100	U	0.00396	0.00100	mg/Kg		02/06/23 10:43	02/07/23 04:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		70 - 130				02/06/23 10:43	02/07/23 04:38	1
1,4-Difluorobenzene (Surr)	67	S1-	70 - 130				02/06/23 10:43	02/07/23 04:38	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00396	0.00100	mg/Kg			02/07/23 09:48	1

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## Client Sample Results

Client: Talon/LPE  
Project/Site: Amoco 1 Fed 2

Job ID: 890-4003-1  
SDG: Lea County NM

## Client Sample ID: S-3

Lab Sample ID: 890-4003-8

Date Collected: 01/25/23 13:33

Matrix: Solid

Date Received: 01/31/23 16:46

Sample Depth: 2'

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	401		50.0	15.0	mg/Kg			02/13/23 17:08	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	46.0	J B *1	50.0	15.0	mg/Kg		02/07/23 09:24	02/11/23 03:07	1
Diesel Range Organics (Over C10-C28)	259		50.0	15.0	mg/Kg		02/07/23 09:24	02/11/23 03:07	1
Oil Range Organics (Over C28-C36)	96.3		50.0	15.0	mg/Kg		02/07/23 09:24	02/11/23 03:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	52	S1-	70 - 130				02/07/23 09:24	02/11/23 03:07	1
o-Terphenyl	55	S1-	70 - 130				02/07/23 09:24	02/11/23 03:07	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	125		5.00	0.395	mg/Kg			02/05/23 12:57	1

## Client Sample ID: S-3

Lab Sample ID: 890-4003-9

Date Collected: 01/25/23 13:38

Matrix: Solid

Date Received: 01/31/23 16:46

Sample Depth: 4'

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000387	U	0.00201	0.000387	mg/Kg		02/06/23 10:43	02/07/23 04:59	1
Toluene	0.000504	J	0.00201	0.000459	mg/Kg		02/06/23 10:43	02/07/23 04:59	1
Ethylbenzene	<0.000568	U	0.00201	0.000568	mg/Kg		02/06/23 10:43	02/07/23 04:59	1
m-Xylene & p-Xylene	<0.00102	U	0.00402	0.00102	mg/Kg		02/06/23 10:43	02/07/23 04:59	1
o-Xylene	<0.000346	U	0.00201	0.000346	mg/Kg		02/06/23 10:43	02/07/23 04:59	1
Xylenes, Total	<0.00102	U	0.00402	0.00102	mg/Kg		02/06/23 10:43	02/07/23 04:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130				02/06/23 10:43	02/07/23 04:59	1
1,4-Difluorobenzene (Surr)	81		70 - 130				02/06/23 10:43	02/07/23 04:59	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00402	0.00102	mg/Kg			02/07/23 09:48	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	254		50.0	15.0	mg/Kg			02/13/23 17:08	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	43.9	J B *1	50.0	15.0	mg/Kg		02/07/23 09:24	02/11/23 03:29	1
Diesel Range Organics (Over C10-C28)	157		50.0	15.0	mg/Kg		02/07/23 09:24	02/11/23 03:29	1

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## Client Sample Results

Client: Talon/LPE  
Project/Site: Amoco 1 Fed 2

Job ID: 890-4003-1  
SDG: Lea County NM

## Client Sample ID: S-3

Lab Sample ID: 890-4003-9

Date Collected: 01/25/23 13:38

Matrix: Solid

Date Received: 01/31/23 16:46

Sample Depth: 4'

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	52.7		50.0	15.0	mg/Kg		02/07/23 09:24	02/11/23 03:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	47	S1-	70 - 130				02/07/23 09:24	02/11/23 03:29	1
o-Terphenyl	52	S1-	70 - 130				02/07/23 09:24	02/11/23 03:29	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	166		4.95	0.391	mg/Kg			02/05/23 13:03	1

## Client Sample ID: S-4

Lab Sample ID: 890-4003-10

Date Collected: 01/25/23 14:00

Matrix: Solid

Date Received: 01/31/23 16:46

Sample Depth: 0-1'

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000387	U	0.00201	0.000387	mg/Kg		02/06/23 10:43	02/07/23 05:20	1
Toluene	0.00175	J	0.00201	0.000458	mg/Kg		02/06/23 10:43	02/07/23 05:20	1
Ethylbenzene	<0.000567	U	0.00201	0.000567	mg/Kg		02/06/23 10:43	02/07/23 05:20	1
m-Xylene & p-Xylene	<0.00101	U	0.00402	0.00101	mg/Kg		02/06/23 10:43	02/07/23 05:20	1
o-Xylene	<0.000345	U	0.00201	0.000345	mg/Kg		02/06/23 10:43	02/07/23 05:20	1
Xylenes, Total	<0.00101	U	0.00402	0.00101	mg/Kg		02/06/23 10:43	02/07/23 05:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130				02/06/23 10:43	02/07/23 05:20	1
1,4-Difluorobenzene (Surr)	97		70 - 130				02/06/23 10:43	02/07/23 05:20	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00175	J	0.00402	0.00101	mg/Kg			02/07/23 09:48	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	106		49.9	15.0	mg/Kg			02/13/23 17:08	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	39.8	J B *1	49.9	15.0	mg/Kg		02/07/23 09:24	02/11/23 04:14	1
Diesel Range Organics (Over C10-C28)	37.7	J	49.9	15.0	mg/Kg		02/07/23 09:24	02/11/23 04:14	1
Oil Range Organics (Over C28-C36)	28.7	J	49.9	15.0	mg/Kg		02/07/23 09:24	02/11/23 04:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	52	S1-	70 - 130				02/07/23 09:24	02/11/23 04:14	1
o-Terphenyl	57	S1-	70 - 130				02/07/23 09:24	02/11/23 04:14	1

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## Client Sample Results

Client: Talon/LPE  
Project/Site: Amoco 1 Fed 2

Job ID: 890-4003-1  
SDG: Lea County NM

## Client Sample ID: S-4

Lab Sample ID: 890-4003-10

Date Collected: 01/25/23 14:00

Matrix: Solid

Date Received: 01/31/23 16:46

Sample Depth: 0-1'

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	334		4.96	0.392	mg/Kg			02/05/23 13:10	1

## Client Sample ID: S-4

Lab Sample ID: 890-4003-11

Date Collected: 01/25/23 14:05

Matrix: Solid

Date Received: 01/31/23 16:46

Sample Depth: 2'

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000381	U	0.00198	0.000381	mg/Kg		02/06/23 10:43	02/07/23 05:40	1
Toluene	0.00112	J	0.00198	0.000451	mg/Kg		02/06/23 10:43	02/07/23 05:40	1
Ethylbenzene	<0.000559	U	0.00198	0.000559	mg/Kg		02/06/23 10:43	02/07/23 05:40	1
m-Xylene & p-Xylene	<0.00100	U	0.00396	0.00100	mg/Kg		02/06/23 10:43	02/07/23 05:40	1
o-Xylene	<0.000341	U	0.00198	0.000341	mg/Kg		02/06/23 10:43	02/07/23 05:40	1
Xylenes, Total	<0.00100	U	0.00396	0.00100	mg/Kg		02/06/23 10:43	02/07/23 05:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130				02/06/23 10:43	02/07/23 05:40	1
1,4-Difluorobenzene (Surr)	94		70 - 130				02/06/23 10:43	02/07/23 05:40	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00112	J	0.00396	0.00100	mg/Kg			02/07/23 09:48	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	128		50.0	15.0	mg/Kg			02/13/23 17:08	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	44.6	J B *1	50.0	15.0	mg/Kg		02/07/23 09:24	02/11/23 03:51	1
Diesel Range Organics (Over C10-C28)	55.3		50.0	15.0	mg/Kg		02/07/23 09:24	02/11/23 03:51	1
Oil Range Organics (Over C28-C36)	27.9	J	50.0	15.0	mg/Kg		02/07/23 09:24	02/11/23 03:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	44	S1-	70 - 130				02/07/23 09:24	02/11/23 03:51	1
o-Terphenyl	47	S1-	70 - 130				02/07/23 09:24	02/11/23 03:51	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	207		4.98	0.393	mg/Kg			02/05/23 13:16	1

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## Client Sample Results

Client: Talon/LPE  
Project/Site: Amoco 1 Fed 2

Job ID: 890-4003-1  
SDG: Lea County NM

Client Sample ID: S-4

Lab Sample ID: 890-4003-12

Date Collected: 01/25/23 14:13

Matrix: Solid

Date Received: 01/31/23 16:46

Sample Depth: 4'

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg		02/06/23 10:43	02/07/23 06:01	1
Toluene	<0.000453	U	0.00199	0.000453	mg/Kg		02/06/23 10:43	02/07/23 06:01	1
Ethylbenzene	<0.000562	U	0.00199	0.000562	mg/Kg		02/06/23 10:43	02/07/23 06:01	1
m-Xylene & p-Xylene	<0.00100	U	0.00398	0.00100	mg/Kg		02/06/23 10:43	02/07/23 06:01	1
o-Xylene	<0.000342	U	0.00199	0.000342	mg/Kg		02/06/23 10:43	02/07/23 06:01	1
Xylenes, Total	<0.00100	U	0.00398	0.00100	mg/Kg		02/06/23 10:43	02/07/23 06:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130	02/06/23 10:43	02/07/23 06:01	1
1,4-Difluorobenzene (Surr)	105		70 - 130	02/06/23 10:43	02/07/23 06:01	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00398	0.00100	mg/Kg			02/07/23 09:48	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	101		49.9	15.0	mg/Kg			02/13/23 17:08	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	47.5	J B *1	49.9	15.0	mg/Kg		02/07/23 09:24	02/11/23 04:36	1
Diesel Range Organics (Over C10-C28)	31.0	J	49.9	15.0	mg/Kg		02/07/23 09:24	02/11/23 04:36	1
Oil Range Organics (Over C28-C36)	22.7	J	49.9	15.0	mg/Kg		02/07/23 09:24	02/11/23 04:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	49	S1-	70 - 130	02/07/23 09:24	02/11/23 04:36	1
o-Terphenyl	56	S1-	70 - 130	02/07/23 09:24	02/11/23 04:36	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	149		5.00	0.395	mg/Kg			02/05/23 13:34	1

Client Sample ID: S-5

Lab Sample ID: 890-4003-13

Date Collected: 01/25/23 12:50

Matrix: Solid

Date Received: 01/31/23 16:46

Sample Depth: 0'

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000384	U	0.00200	0.000384	mg/Kg		02/06/23 10:43	02/07/23 06:21	1
Toluene	<0.000455	U	0.00200	0.000455	mg/Kg		02/06/23 10:43	02/07/23 06:21	1
Ethylbenzene	<0.000564	U	0.00200	0.000564	mg/Kg		02/06/23 10:43	02/07/23 06:21	1
m-Xylene & p-Xylene	<0.00101	U	0.00399	0.00101	mg/Kg		02/06/23 10:43	02/07/23 06:21	1
o-Xylene	<0.000343	U	0.00200	0.000343	mg/Kg		02/06/23 10:43	02/07/23 06:21	1
Xylenes, Total	<0.00101	U	0.00399	0.00101	mg/Kg		02/06/23 10:43	02/07/23 06:21	1

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## Client Sample Results

Client: Talon/LPE  
Project/Site: Amoco 1 Fed 2

Job ID: 890-4003-1  
SDG: Lea County NM

Client Sample ID: S-5

Lab Sample ID: 890-4003-13

Date Collected: 01/25/23 12:50

Matrix: Solid

Date Received: 01/31/23 16:46

Sample Depth: 0'

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	34	S1-	70 - 130	02/06/23 10:43	02/07/23 06:21	1
1,4-Difluorobenzene (Surr)	93		70 - 130	02/06/23 10:43	02/07/23 06:21	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00399	0.00101	mg/Kg			02/07/23 09:48	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	61.0		49.9	15.0	mg/Kg			02/09/23 20:18	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	20.7	J B	49.9	15.0	mg/Kg		02/07/23 12:06	02/09/23 18:05	1
Diesel Range Organics (Over C10-C28)	40.3	J	49.9	15.0	mg/Kg		02/07/23 12:06	02/09/23 18:05	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		02/07/23 12:06	02/09/23 18:05	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
1-Chlorooctane	108		70 - 130	02/07/23 12:06	02/09/23 18:05	1			
o-Terphenyl	110		70 - 130	02/07/23 12:06	02/09/23 18:05	1			

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.05		4.97	0.393	mg/Kg			02/05/23 13:40	1

Client Sample ID: S-6

Lab Sample ID: 890-4003-14

Date Collected: 01/25/23 12:55

Matrix: Solid

Date Received: 01/31/23 16:46

Sample Depth: 0'

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg		02/06/23 10:43	02/07/23 06:42	1
Toluene	<0.000454	U	0.00199	0.000454	mg/Kg		02/06/23 10:43	02/07/23 06:42	1
Ethylbenzene	<0.000563	U	0.00199	0.000563	mg/Kg		02/06/23 10:43	02/07/23 06:42	1
m-Xylene & p-Xylene	<0.00101	U	0.00398	0.00101	mg/Kg		02/06/23 10:43	02/07/23 06:42	1
o-Xylene	<0.000343	U	0.00199	0.000343	mg/Kg		02/06/23 10:43	02/07/23 06:42	1
Xylenes, Total	<0.00101	U	0.00398	0.00101	mg/Kg		02/06/23 10:43	02/07/23 06:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	02/06/23 10:43	02/07/23 06:42	1
1,4-Difluorobenzene (Surr)	109		70 - 130	02/06/23 10:43	02/07/23 06:42	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00398	0.00101	mg/Kg			02/07/23 09:48	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	24.5	J	49.9	15.0	mg/Kg			02/09/23 20:18	1

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## Client Sample Results

Client: Talon/LPE  
Project/Site: Amoco 1 Fed 2

Job ID: 890-4003-1  
SDG: Lea County NM

Client Sample ID: S-6

Lab Sample ID: 890-4003-14

Date Collected: 01/25/23 12:55

Matrix: Solid

Date Received: 01/31/23 16:46

Sample Depth: 0'

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	24.5	J B	49.9	15.0	mg/Kg		02/07/23 12:06	02/09/23 18:27	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.9	15.0	mg/Kg		02/07/23 12:06	02/09/23 18:27	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		02/07/23 12:06	02/09/23 18:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130				02/07/23 12:06	02/09/23 18:27	1
o-Terphenyl	90		70 - 130				02/07/23 12:06	02/09/23 18:27	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.84	J	5.04	0.398	mg/Kg			02/05/23 13:59	1

Client Sample ID: S-7

Lab Sample ID: 890-4003-15

Date Collected: 01/25/23 12:58

Matrix: Solid

Date Received: 01/31/23 16:46

Sample Depth: 0'

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000386	U	0.00200	0.000386	mg/Kg		02/06/23 10:43	02/07/23 07:03	1
Toluene	<0.000457	U	0.00200	0.000457	mg/Kg		02/06/23 10:43	02/07/23 07:03	1
Ethylbenzene	<0.000566	U	0.00200	0.000566	mg/Kg		02/06/23 10:43	02/07/23 07:03	1
m-Xylene & p-Xylene	<0.00101	U	0.00401	0.00101	mg/Kg		02/06/23 10:43	02/07/23 07:03	1
o-Xylene	<0.000345	U	0.00200	0.000345	mg/Kg		02/06/23 10:43	02/07/23 07:03	1
Xylenes, Total	<0.00101	U	0.00401	0.00101	mg/Kg		02/06/23 10:43	02/07/23 07:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				02/06/23 10:43	02/07/23 07:03	1
1,4-Difluorobenzene (Surr)	110		70 - 130				02/06/23 10:43	02/07/23 07:03	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00401	0.00101	mg/Kg			02/07/23 09:48	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	40.0	J	50.0	15.0	mg/Kg			02/09/23 20:18	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	24.4	J B	50.0	15.0	mg/Kg		02/07/23 12:06	02/09/23 18:49	1
Diesel Range Organics (Over C10-C28)	15.6	J	50.0	15.0	mg/Kg		02/07/23 12:06	02/09/23 18:49	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		02/07/23 12:06	02/09/23 18:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130				02/07/23 12:06	02/09/23 18:49	1
o-Terphenyl	93		70 - 130				02/07/23 12:06	02/09/23 18:49	1

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Client Sample Results

Client: Talon/LPE  
Project/Site: Amoco 1 Fed 2

Job ID: 890-4003-1  
SDG: Lea County NM

Client Sample ID: S-7

Date Collected: 01/25/23 12:58  
Date Received: 01/31/23 16:46  
Sample Depth: 0'

Lab Sample ID: 890-4003-15  
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	69.1		4.99	0.394	mg/Kg			02/05/23 14:05	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

## Surrogate Summary

Client: Talon/LPE  
Project/Site: Amoco 1 Fed 2

Job ID: 890-4003-1  
SDG: Lea County NM

## Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-24267-A-13-C MS	Matrix Spike	105	98
880-24267-A-13-D MSD	Matrix Spike Duplicate	101	94
880-24307-A-21-D MS	Matrix Spike	103	98
880-24307-A-21-E MSD	Matrix Spike Duplicate	99	106
890-4003-1	S-1	67 S1-	73
890-4003-2	S-1	120	103
890-4003-3	S-1	51 S1-	79
890-4003-4	S-2	91	67 S1-
890-4003-5	S-2	123	103
890-4003-6	S-2	118	109
890-4003-7	S-3	127	97
890-4003-8	S-3	80	67 S1-
890-4003-9	S-3	117	81
890-4003-10	S-4	122	97
890-4003-11	S-4	118	94
890-4003-12	S-4	124	105
890-4003-13	S-5	34 S1-	93
890-4003-14	S-6	110	109
890-4003-15	S-7	110	110
LCS 880-45533/1-A	Lab Control Sample	92	95
LCS 880-45568/1-A	Lab Control Sample	104	86
LCSD 880-45533/2-A	Lab Control Sample Dup	101	105
LCSD 880-45568/2-A	Lab Control Sample Dup	98	96
MB 880-45533/5-A	Method Blank	90	88
MB 880-45568/5-A	Method Blank	87	90

## Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-24205-A-1-E MS	Matrix Spike	14 S1-	9 S1-
880-24205-A-1-F MSD	Matrix Spike Duplicate	17 S1-	11 S1-
890-4003-1	S-1	56 S1-	61 S1-
890-4003-2	S-1	48 S1-	52 S1-
890-4003-3	S-1	55 S1-	60 S1-
890-4003-4	S-2	51 S1-	56 S1-
890-4003-5	S-2	53 S1-	56 S1-
890-4003-6	S-2	52 S1-	56 S1-
890-4003-7	S-3	51 S1-	55 S1-
890-4003-8	S-3	52 S1-	55 S1-
890-4003-9	S-3	47 S1-	52 S1-
890-4003-10	S-4	52 S1-	57 S1-
890-4003-11	S-4	44 S1-	47 S1-
890-4003-12	S-4	49 S1-	56 S1-

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Surrogate Summary

Client: Talon/LPE  
Project/Site: Amoco 1 Fed 2

Job ID: 890-4003-1  
SDG: Lea County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-4003-13	S-5	108	110
890-4003-14	S-6	89	90
890-4003-15	S-7	92	93
890-4008-A-3-D MS	Matrix Spike	74	71
890-4008-A-3-E MSD	Matrix Spike Duplicate	69 S1-	67 S1-
LCS 880-45662/2-A	Lab Control Sample	117	125
LCS 880-45688/2-A	Lab Control Sample	139 S1+	120
LCSD 880-45662/3-A	Lab Control Sample Dup	117	129
LCSD 880-45688/3-A	Lab Control Sample Dup	141 S1+	129
MB 880-45662/1-A	Method Blank	68 S1-	81
MB 880-45688/1-A	Method Blank	124	131 S1+
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			



## QC Sample Results

Client: Talon/LPE  
Project/Site: Amoco 1 Fed 2

Job ID: 890-4003-1  
SDG: Lea County NM

## Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-45533/5-A

Matrix: Solid

Analysis Batch: 45544

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 45533

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		02/05/23 11:26	02/06/23 10:51	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		02/05/23 11:26	02/06/23 10:51	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		02/05/23 11:26	02/06/23 10:51	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		02/05/23 11:26	02/06/23 10:51	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		02/05/23 11:26	02/06/23 10:51	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		02/05/23 11:26	02/06/23 10:51	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	02/05/23 11:26	02/06/23 10:51	1
1,4-Difluorobenzene (Surr)	88		70 - 130	02/05/23 11:26	02/06/23 10:51	1

Lab Sample ID: LCS 880-45533/1-A

Matrix: Solid

Analysis Batch: 45544

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 45533

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09317		mg/Kg		93	70 - 130
Toluene	0.100	0.08852		mg/Kg		89	70 - 130
Ethylbenzene	0.100	0.07853		mg/Kg		79	70 - 130
m-Xylene & p-Xylene	0.200	0.1507		mg/Kg		75	70 - 130
o-Xylene	0.100	0.07740		mg/Kg		77	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: LCSD 880-45533/2-A

Matrix: Solid

Analysis Batch: 45544

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 45533

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1109		mg/Kg		111	70 - 130	17	35
Toluene	0.100	0.1027		mg/Kg		103	70 - 130	15	35
Ethylbenzene	0.100	0.09095		mg/Kg		91	70 - 130	15	35
m-Xylene & p-Xylene	0.200	0.1758		mg/Kg		88	70 - 130	15	35
o-Xylene	0.100	0.09002		mg/Kg		90	70 - 130	15	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: 880-24267-A-13-C MS

Matrix: Solid

Analysis Batch: 45544

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 45533

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.000387	U F1 F2	0.100	0.02268	F1	mg/Kg		23	70 - 130
Toluene	<0.000459	U F1 F2	0.100	0.02682	F1	mg/Kg		27	70 - 130

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## QC Sample Results

Client: Talon/LPE  
Project/Site: Amoco 1 Fed 2

Job ID: 890-4003-1  
SDG: Lea County NM

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-24267-A-13-C MS

Matrix: Solid

Analysis Batch: 45544

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 45533

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.000568	U F1	0.100	0.05039	F1	mg/Kg		50	70 - 130
m-Xylene & p-Xylene	<0.00102	U F1	0.200	0.09345	F1	mg/Kg		47	70 - 130
o-Xylene	<0.000346	U F1	0.100	0.05201	F1	mg/Kg		52	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 880-24267-A-13-D MSD

Matrix: Solid

Analysis Batch: 45544

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 45533

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.000387	U F1 F2	0.0990	0.03570	F1 F2	mg/Kg		36	70 - 130	45	35
Toluene	<0.000459	U F1 F2	0.0990	0.04177	F1 F2	mg/Kg		42	70 - 130	44	35
Ethylbenzene	<0.000568	U F1	0.0990	0.06394	F1	mg/Kg		65	70 - 130	24	35
m-Xylene & p-Xylene	<0.00102	U F1	0.198	0.1158	F1	mg/Kg		58	70 - 130	21	35
o-Xylene	<0.000346	U F1	0.0990	0.06325	F1	mg/Kg		64	70 - 130	20	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: MB 880-45568/5-A

Matrix: Solid

Analysis Batch: 45544

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 45568

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		02/06/23 10:43	02/06/23 23:05	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		02/06/23 10:43	02/06/23 23:05	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		02/06/23 10:43	02/06/23 23:05	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		02/06/23 10:43	02/06/23 23:05	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		02/06/23 10:43	02/06/23 23:05	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		02/06/23 10:43	02/06/23 23:05	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130	02/06/23 10:43	02/06/23 23:05	1
1,4-Difluorobenzene (Surr)	90		70 - 130	02/06/23 10:43	02/06/23 23:05	1

Lab Sample ID: LCS 880-45568/1-A

Matrix: Solid

Analysis Batch: 45544

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 45568

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08514		mg/Kg		85	70 - 130
Toluene	0.100	0.09052		mg/Kg		91	70 - 130
Ethylbenzene	0.100	0.09109		mg/Kg		91	70 - 130
m-Xylene & p-Xylene	0.200	0.1666		mg/Kg		83	70 - 130

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## QC Sample Results

Client: Talon/LPE  
Project/Site: Amoco 1 Fed 2

Job ID: 890-4003-1  
SDG: Lea County NM

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-45568/1-A

Matrix: Solid

Analysis Batch: 45544

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 45568

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	0.100	0.08673		mg/Kg		87	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	86		70 - 130

Lab Sample ID: LCSD 880-45568/2-A

Matrix: Solid

Analysis Batch: 45544

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 45568

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09738		mg/Kg		97	70 - 130	13	35
Toluene	0.100	0.09286		mg/Kg		93	70 - 130	3	35
Ethylbenzene	0.100	0.08411		mg/Kg		84	70 - 130	8	35
m-Xylene & p-Xylene	0.200	0.1574		mg/Kg		79	70 - 130	6	35
o-Xylene	0.100	0.08291		mg/Kg		83	70 - 130	4	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: 880-24307-A-21-D MS

Matrix: Solid

Analysis Batch: 45544

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 45568

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.000422	J	0.100	0.09749		mg/Kg		97	70 - 130
Toluene	<0.000459	U	0.100	0.07986		mg/Kg		80	70 - 130
Ethylbenzene	<0.000568	U F1	0.100	0.07155		mg/Kg		71	70 - 130
m-Xylene & p-Xylene	<0.00102	U F1	0.200	0.1297	F1	mg/Kg		65	70 - 130
o-Xylene	<0.000346	U F1	0.100	0.07330		mg/Kg		73	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 880-24307-A-21-E MSD

Matrix: Solid

Analysis Batch: 45544

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 45568

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.000422	J	0.0990	0.08093		mg/Kg		81	70 - 130	19	35
Toluene	<0.000459	U	0.0990	0.07039		mg/Kg		71	70 - 130	13	35
Ethylbenzene	<0.000568	U F1	0.0990	0.06309	F1	mg/Kg		64	70 - 130	13	35
m-Xylene & p-Xylene	<0.00102	U F1	0.198	0.1154	F1	mg/Kg		58	70 - 130	12	35
o-Xylene	<0.000346	U F1	0.0990	0.06428	F1	mg/Kg		65	70 - 130	13	35

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## QC Sample Results

Client: Talon/LPE  
Project/Site: Amoco 1 Fed 2

Job ID: 890-4003-1  
SDG: Lea County NM

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-24307-A-21-E MSD

Matrix: Solid

Analysis Batch: 45544

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 45568

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-45662/1-A

Matrix: Solid

Analysis Batch: 45951

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 45662

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
Gasoline Range Organics (GRO)-C6-C10	23.55	J	50.0	15.0	mg/Kg		02/07/23 09:24	02/10/23 19:28	1	
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		02/07/23 09:24	02/10/23 19:28	1	
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		02/07/23 09:24	02/10/23 19:28	1	
	MB	MB								
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil	Fac
1-Chlorooctane	68	S1-	70 - 130				02/07/23 09:24	02/10/23 19:28	1	
o-Terphenyl	81		70 - 130				02/07/23 09:24	02/10/23 19:28	1	

Lab Sample ID: LCS 880-45662/2-A

Matrix: Solid

Analysis Batch: 45951

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 45662

	Spike	LCS	LCS					%Rec		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits			
Gasoline Range Organics (GRO)-C6-C10	1000	1172		mg/Kg		117	70 - 130			
Diesel Range Organics (Over C10-C28)	1000	1011		mg/Kg		101	70 - 130			
	LCS	LCS								
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	117		70 - 130							
o-Terphenyl	125		70 - 130							

Lab Sample ID: LCSD 880-45662/3-A

Matrix: Solid

Analysis Batch: 45951

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 45662

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10	1000	896.9	*1	mg/Kg		90	70 - 130	27	20	
Diesel Range Organics (Over C10-C28)	1000	1092		mg/Kg		109	70 - 130	8	20	
	LCSD	LCSD								
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	117		70 - 130							
o-Terphenyl	129		70 - 130							

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## QC Sample Results

Client: Talon/LPE  
Project/Site: Amoco 1 Fed 2

Job ID: 890-4003-1  
SDG: Lea County NM

## Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-4008-A-3-D MS  
Matrix: Solid  
Analysis Batch: 45951

Client Sample ID: Matrix Spike  
Prep Type: Total/NA  
Prep Batch: 45662

	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10	46.4	J B *1	998	1142		mg/Kg		110	70 - 130		
Diesel Range Organics (Over C10-C28)	29.5	J	998	1196		mg/Kg		117	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane	74		70 - 130								
o-Terphenyl	71		70 - 130								

Lab Sample ID: 890-4008-A-3-E MSD  
Matrix: Solid  
Analysis Batch: 45951

Client Sample ID: Matrix Spike Duplicate  
Prep Type: Total/NA  
Prep Batch: 45662

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	46.4	J B *1	999	1028		mg/Kg		98	70 - 130	11	20
Diesel Range Organics (Over C10-C28)	29.5	J	999	1141		mg/Kg		111	70 - 130	5	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	69	S1-	70 - 130								
o-Terphenyl	67	S1-	70 - 130								

Lab Sample ID: MB 880-45688/1-A  
Matrix: Solid  
Analysis Batch: 45831

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 45688

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	21.38	J	50.0	15.0	mg/Kg		02/07/23 12:06	02/09/23 08:52	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		02/07/23 12:06	02/09/23 08:52	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		02/07/23 12:06	02/09/23 08:52	1
Surrogate	MB MB		Limits				Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier							
1-Chlorooctane	124		70 - 130				02/07/23 12:06	02/09/23 08:52	1
o-Terphenyl	131	S1+	70 - 130				02/07/23 12:06	02/09/23 08:52	1

Lab Sample ID: LCS 880-45688/2-A  
Matrix: Solid  
Analysis Batch: 45831

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 45688

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec
	Added	Result	Qualifier				Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1090		mg/Kg		109	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1058		mg/Kg		106	70 - 130

## QC Sample Results

Client: Talon/LPE  
Project/Site: Amoco 1 Fed 2

Job ID: 890-4003-1  
SDG: Lea County NM

## Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-45688/2-A

Matrix: Solid

Analysis Batch: 45831

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 45688

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	139	S1+	70 - 130
o-Terphenyl	120		70 - 130

Lab Sample ID: LCSD 880-45688/3-A

Matrix: Solid

Analysis Batch: 45831

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 45688

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1032		mg/Kg		103	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	1000	1098		mg/Kg		110	70 - 130	4	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	141	S1+	70 - 130
o-Terphenyl	129		70 - 130

Lab Sample ID: 880-24205-A-1-E MS

Matrix: Solid

Analysis Batch: 45831

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 45688

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	24.5	J B	999	994.4		mg/Kg		97	70 - 130
Diesel Range Organics (Over C10-C28)	22.5	J	999	925.4		mg/Kg		90	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	14	S1-	70 - 130
o-Terphenyl	9	S1-	70 - 130

Lab Sample ID: 880-24205-A-1-F MSD

Matrix: Solid

Analysis Batch: 45831

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 45688

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	24.5	J B	998	1188		mg/Kg		117	70 - 130	18	20
Diesel Range Organics (Over C10-C28)	22.5	J	998	1127		mg/Kg		111	70 - 130	20	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	17	S1-	70 - 130
o-Terphenyl	11	S1-	70 - 130

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## QC Sample Results

Client: Talon/LPE  
Project/Site: Amoco 1 Fed 2

Job ID: 890-4003-1  
SDG: Lea County NM

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-45408/1-A

Matrix: Solid

Analysis Batch: 45553

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.395	U	5.00	0.395	mg/Kg			02/05/23 11:31	1

Lab Sample ID: LCS 880-45408/2-A

Matrix: Solid

Analysis Batch: 45553

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	253.2		mg/Kg		101	90 - 110

Lab Sample ID: LCSD 880-45408/3-A

Matrix: Solid

Analysis Batch: 45553

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	252.7		mg/Kg		101	90 - 110	0	20

Lab Sample ID: 890-4003-1 MS

Matrix: Solid

Analysis Batch: 45553

Client Sample ID: S-1

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	121		253	385.7		mg/Kg		105	90 - 110

Lab Sample ID: 890-4003-1 MSD

Matrix: Solid

Analysis Batch: 45553

Client Sample ID: S-1

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	121		253	374.9		mg/Kg		100	90 - 110	3	20

Lab Sample ID: 890-4003-11 MS

Matrix: Solid

Analysis Batch: 45553

Client Sample ID: S-4

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	207		249	459.7		mg/Kg		101	90 - 110

Lab Sample ID: 890-4003-11 MSD

Matrix: Solid

Analysis Batch: 45553

Client Sample ID: S-4

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	207		249	460.7		mg/Kg		102	90 - 110	0	20

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## QC Association Summary

Client: Talon/LPE  
Project/Site: Amoco 1 Fed 2

Job ID: 890-4003-1  
SDG: Lea County NM

## GC VOA

## Prep Batch: 45533

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4003-1	S-1	Total/NA	Solid	5035	
890-4003-2	S-1	Total/NA	Solid	5035	
890-4003-3	S-1	Total/NA	Solid	5035	
890-4003-4	S-2	Total/NA	Solid	5035	
890-4003-5	S-2	Total/NA	Solid	5035	
890-4003-6	S-2	Total/NA	Solid	5035	
MB 880-45533/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-45533/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-45533/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-24267-A-13-C MS	Matrix Spike	Total/NA	Solid	5035	
880-24267-A-13-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

## Analysis Batch: 45544

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4003-1	S-1	Total/NA	Solid	8021B	45533
890-4003-2	S-1	Total/NA	Solid	8021B	45533
890-4003-3	S-1	Total/NA	Solid	8021B	45533
890-4003-4	S-2	Total/NA	Solid	8021B	45533
890-4003-5	S-2	Total/NA	Solid	8021B	45533
890-4003-6	S-2	Total/NA	Solid	8021B	45533
890-4003-7	S-3	Total/NA	Solid	8021B	45568
890-4003-8	S-3	Total/NA	Solid	8021B	45568
890-4003-9	S-3	Total/NA	Solid	8021B	45568
890-4003-10	S-4	Total/NA	Solid	8021B	45568
890-4003-11	S-4	Total/NA	Solid	8021B	45568
890-4003-12	S-4	Total/NA	Solid	8021B	45568
890-4003-13	S-5	Total/NA	Solid	8021B	45568
890-4003-14	S-6	Total/NA	Solid	8021B	45568
890-4003-15	S-7	Total/NA	Solid	8021B	45568
MB 880-45533/5-A	Method Blank	Total/NA	Solid	8021B	45533
MB 880-45568/5-A	Method Blank	Total/NA	Solid	8021B	45568
LCS 880-45533/1-A	Lab Control Sample	Total/NA	Solid	8021B	45533
LCS 880-45568/1-A	Lab Control Sample	Total/NA	Solid	8021B	45568
LCSD 880-45533/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	45533
LCSD 880-45568/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	45568
880-24267-A-13-C MS	Matrix Spike	Total/NA	Solid	8021B	45533
880-24267-A-13-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	45533
880-24307-A-21-D MS	Matrix Spike	Total/NA	Solid	8021B	45568
880-24307-A-21-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	45568

## Prep Batch: 45568

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4003-7	S-3	Total/NA	Solid	5035	
890-4003-8	S-3	Total/NA	Solid	5035	
890-4003-9	S-3	Total/NA	Solid	5035	
890-4003-10	S-4	Total/NA	Solid	5035	
890-4003-11	S-4	Total/NA	Solid	5035	
890-4003-12	S-4	Total/NA	Solid	5035	
890-4003-13	S-5	Total/NA	Solid	5035	
890-4003-14	S-6	Total/NA	Solid	5035	
890-4003-15	S-7	Total/NA	Solid	5035	

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## QC Association Summary

Client: Talon/LPE  
Project/Site: Amoco 1 Fed 2

Job ID: 890-4003-1  
SDG: Lea County NM

## GC VOA (Continued)

## Prep Batch: 45568 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-45568/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-45568/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-45568/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-24307-A-21-D MS	Matrix Spike	Total/NA	Solid	5035	
880-24307-A-21-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

## Analysis Batch: 45670

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4003-1	S-1	Total/NA	Solid	Total BTEX	
890-4003-2	S-1	Total/NA	Solid	Total BTEX	
890-4003-3	S-1	Total/NA	Solid	Total BTEX	
890-4003-4	S-2	Total/NA	Solid	Total BTEX	
890-4003-5	S-2	Total/NA	Solid	Total BTEX	
890-4003-6	S-2	Total/NA	Solid	Total BTEX	
890-4003-7	S-3	Total/NA	Solid	Total BTEX	
890-4003-8	S-3	Total/NA	Solid	Total BTEX	
890-4003-9	S-3	Total/NA	Solid	Total BTEX	
890-4003-10	S-4	Total/NA	Solid	Total BTEX	
890-4003-11	S-4	Total/NA	Solid	Total BTEX	
890-4003-12	S-4	Total/NA	Solid	Total BTEX	
890-4003-13	S-5	Total/NA	Solid	Total BTEX	
890-4003-14	S-6	Total/NA	Solid	Total BTEX	
890-4003-15	S-7	Total/NA	Solid	Total BTEX	

## GC Semi VOA

## Prep Batch: 45662

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4003-1	S-1	Total/NA	Solid	8015NM Prep	
890-4003-2	S-1	Total/NA	Solid	8015NM Prep	
890-4003-3	S-1	Total/NA	Solid	8015NM Prep	
890-4003-4	S-2	Total/NA	Solid	8015NM Prep	
890-4003-5	S-2	Total/NA	Solid	8015NM Prep	
890-4003-6	S-2	Total/NA	Solid	8015NM Prep	
890-4003-7	S-3	Total/NA	Solid	8015NM Prep	
890-4003-8	S-3	Total/NA	Solid	8015NM Prep	
890-4003-9	S-3	Total/NA	Solid	8015NM Prep	
890-4003-10	S-4	Total/NA	Solid	8015NM Prep	
890-4003-11	S-4	Total/NA	Solid	8015NM Prep	
890-4003-12	S-4	Total/NA	Solid	8015NM Prep	
MB 880-45662/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-45662/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-45662/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4008-A-3-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-4008-A-3-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

## Prep Batch: 45688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4003-13	S-5	Total/NA	Solid	8015NM Prep	
890-4003-14	S-6	Total/NA	Solid	8015NM Prep	
890-4003-15	S-7	Total/NA	Solid	8015NM Prep	

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## QC Association Summary

Client: Talon/LPE  
Project/Site: Amoco 1 Fed 2

Job ID: 890-4003-1  
SDG: Lea County NM

## GC Semi VOA (Continued)

## Prep Batch: 45688 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-45688/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-45688/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-45688/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-24205-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-24205-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

## Analysis Batch: 45831

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4003-13	S-5	Total/NA	Solid	8015B NM	45688
890-4003-14	S-6	Total/NA	Solid	8015B NM	45688
890-4003-15	S-7	Total/NA	Solid	8015B NM	45688
MB 880-45688/1-A	Method Blank	Total/NA	Solid	8015B NM	45688
LCS 880-45688/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	45688
LCSD 880-45688/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	45688
880-24205-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	45688
880-24205-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	45688

## Analysis Batch: 45933

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4003-1	S-1	Total/NA	Solid	8015 NM	
890-4003-2	S-1	Total/NA	Solid	8015 NM	
890-4003-3	S-1	Total/NA	Solid	8015 NM	
890-4003-4	S-2	Total/NA	Solid	8015 NM	
890-4003-5	S-2	Total/NA	Solid	8015 NM	
890-4003-6	S-2	Total/NA	Solid	8015 NM	
890-4003-7	S-3	Total/NA	Solid	8015 NM	
890-4003-8	S-3	Total/NA	Solid	8015 NM	
890-4003-9	S-3	Total/NA	Solid	8015 NM	
890-4003-10	S-4	Total/NA	Solid	8015 NM	
890-4003-11	S-4	Total/NA	Solid	8015 NM	
890-4003-12	S-4	Total/NA	Solid	8015 NM	
890-4003-13	S-5	Total/NA	Solid	8015 NM	
890-4003-14	S-6	Total/NA	Solid	8015 NM	
890-4003-15	S-7	Total/NA	Solid	8015 NM	

## Analysis Batch: 45951

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4003-1	S-1	Total/NA	Solid	8015B NM	45662
890-4003-2	S-1	Total/NA	Solid	8015B NM	45662
890-4003-3	S-1	Total/NA	Solid	8015B NM	45662
890-4003-4	S-2	Total/NA	Solid	8015B NM	45662
890-4003-5	S-2	Total/NA	Solid	8015B NM	45662
890-4003-6	S-2	Total/NA	Solid	8015B NM	45662
890-4003-7	S-3	Total/NA	Solid	8015B NM	45662
890-4003-8	S-3	Total/NA	Solid	8015B NM	45662
890-4003-9	S-3	Total/NA	Solid	8015B NM	45662
890-4003-10	S-4	Total/NA	Solid	8015B NM	45662
890-4003-11	S-4	Total/NA	Solid	8015B NM	45662
890-4003-12	S-4	Total/NA	Solid	8015B NM	45662
MB 880-45662/1-A	Method Blank	Total/NA	Solid	8015B NM	45662
LCS 880-45662/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	45662

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## QC Association Summary

Client: Talon/LPE  
Project/Site: Amoco 1 Fed 2

Job ID: 890-4003-1  
SDG: Lea County NM

## GC Semi VOA (Continued)

## Analysis Batch: 45951 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-45662/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	45662
890-4008-A-3-D MS	Matrix Spike	Total/NA	Solid	8015B NM	45662
890-4008-A-3-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	45662

## HPLC/IC

## Leach Batch: 45408

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4003-1	S-1	Soluble	Solid	DI Leach	
890-4003-2	S-1	Soluble	Solid	DI Leach	
890-4003-3	S-1	Soluble	Solid	DI Leach	
890-4003-4	S-2	Soluble	Solid	DI Leach	
890-4003-5	S-2	Soluble	Solid	DI Leach	
890-4003-6	S-2	Soluble	Solid	DI Leach	
890-4003-7	S-3	Soluble	Solid	DI Leach	
890-4003-8	S-3	Soluble	Solid	DI Leach	
890-4003-9	S-3	Soluble	Solid	DI Leach	
890-4003-10	S-4	Soluble	Solid	DI Leach	
890-4003-11	S-4	Soluble	Solid	DI Leach	
890-4003-12	S-4	Soluble	Solid	DI Leach	
890-4003-13	S-5	Soluble	Solid	DI Leach	
890-4003-14	S-6	Soluble	Solid	DI Leach	
890-4003-15	S-7	Soluble	Solid	DI Leach	
MB 880-45408/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-45408/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-45408/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4003-1 MS	S-1	Soluble	Solid	DI Leach	
890-4003-1 MSD	S-1	Soluble	Solid	DI Leach	
890-4003-11 MS	S-4	Soluble	Solid	DI Leach	
890-4003-11 MSD	S-4	Soluble	Solid	DI Leach	

## Analysis Batch: 45553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4003-1	S-1	Soluble	Solid	300.0	45408
890-4003-2	S-1	Soluble	Solid	300.0	45408
890-4003-3	S-1	Soluble	Solid	300.0	45408
890-4003-4	S-2	Soluble	Solid	300.0	45408
890-4003-5	S-2	Soluble	Solid	300.0	45408
890-4003-6	S-2	Soluble	Solid	300.0	45408
890-4003-7	S-3	Soluble	Solid	300.0	45408
890-4003-8	S-3	Soluble	Solid	300.0	45408
890-4003-9	S-3	Soluble	Solid	300.0	45408
890-4003-10	S-4	Soluble	Solid	300.0	45408
890-4003-11	S-4	Soluble	Solid	300.0	45408
890-4003-12	S-4	Soluble	Solid	300.0	45408
890-4003-13	S-5	Soluble	Solid	300.0	45408
890-4003-14	S-6	Soluble	Solid	300.0	45408
890-4003-15	S-7	Soluble	Solid	300.0	45408
MB 880-45408/1-A	Method Blank	Soluble	Solid	300.0	45408
LCS 880-45408/2-A	Lab Control Sample	Soluble	Solid	300.0	45408
LCSD 880-45408/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	45408

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QC Association Summary

Client: Talon/LPE  
Project/Site: Amoco 1 Fed 2

Job ID: 890-4003-1  
SDG: Lea County NM

HPLC/IC (Continued)

Analysis Batch: 45553 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4003-1 MS	S-1	Soluble	Solid	300.0	45408
890-4003-1 MSD	S-1	Soluble	Solid	300.0	45408
890-4003-11 MS	S-4	Soluble	Solid	300.0	45408
890-4003-11 MSD	S-4	Soluble	Solid	300.0	45408

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Lab Chronicle

Client: Talon/LPE  
Project/Site: Amoco 1 Fed 2

Job ID: 890-4003-1  
SDG: Lea County NM

Client Sample ID: S-1  
Date Collected: 01/25/23 13:00  
Date Received: 01/31/23 16:46

Lab Sample ID: 890-4003-1  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	45533	02/05/23 11:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	45544	02/06/23 18:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			45670	02/07/23 09:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			45933	02/13/23 17:08	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	45662	02/07/23 09:24	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45951	02/11/23 00:11	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	45408	02/03/23 15:20	KS	EET MID
Soluble	Analysis	300.0		1			45553	02/05/23 11:50	CH	EET MID

Client Sample ID: S-1  
Date Collected: 01/25/23 13:03  
Date Received: 01/31/23 16:46

Lab Sample ID: 890-4003-2  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	45533	02/05/23 11:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	45544	02/06/23 18:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			45670	02/07/23 09:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			45933	02/13/23 17:08	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	45662	02/07/23 09:24	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45951	02/11/23 00:34	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	45408	02/03/23 15:20	KS	EET MID
Soluble	Analysis	300.0		1			45553	02/05/23 12:08	CH	EET MID

Client Sample ID: S-1  
Date Collected: 01/25/23 13:09  
Date Received: 01/31/23 16:46

Lab Sample ID: 890-4003-3  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	45533	02/05/23 11:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	45544	02/06/23 19:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			45670	02/07/23 09:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			45933	02/13/23 17:08	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	45662	02/07/23 09:24	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45951	02/11/23 01:17	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	45408	02/03/23 15:20	KS	EET MID
Soluble	Analysis	300.0		1			45553	02/05/23 12:14	CH	EET MID

Client Sample ID: S-2  
Date Collected: 01/25/23 13:10  
Date Received: 01/31/23 16:46

Lab Sample ID: 890-4003-4  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	45533	02/05/23 11:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	45544	02/06/23 19:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			45670	02/07/23 09:48	SM	EET MID

Eurofins Carlsbad

## Lab Chronicle

Client: Talon/LPE  
Project/Site: Amoco 1 Fed 2

Job ID: 890-4003-1  
SDG: Lea County NM

Client Sample ID: S-2

Lab Sample ID: 890-4003-4

Date Collected: 01/25/23 13:10

Matrix: Solid

Date Received: 01/31/23 16:46

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			45933	02/13/23 17:08	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	45662	02/07/23 09:24	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45951	02/11/23 01:39	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	45408	02/03/23 15:20	KS	EET MID
Soluble	Analysis	300.0		1			45553	02/05/23 12:20	CH	EET MID

Client Sample ID: S-2

Lab Sample ID: 890-4003-5

Date Collected: 01/25/23 13:14

Matrix: Solid

Date Received: 01/31/23 16:46

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	45533	02/05/23 11:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	45544	02/06/23 19:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			45670	02/07/23 09:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			45933	02/13/23 17:08	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	45662	02/07/23 09:24	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45951	02/11/23 02:01	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	45408	02/03/23 15:20	KS	EET MID
Soluble	Analysis	300.0		1			45553	02/05/23 12:26	CH	EET MID

Client Sample ID: S-2

Lab Sample ID: 890-4003-6

Date Collected: 01/25/23 13:20

Matrix: Solid

Date Received: 01/31/23 16:46

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	45533	02/05/23 11:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	45544	02/06/23 20:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			45670	02/07/23 09:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			45933	02/13/23 17:08	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	45662	02/07/23 09:24	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45951	02/11/23 02:22	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	45408	02/03/23 15:20	KS	EET MID
Soluble	Analysis	300.0		1			45553	02/05/23 12:45	CH	EET MID

Client Sample ID: S-3

Lab Sample ID: 890-4003-7

Date Collected: 01/25/23 13:30

Matrix: Solid

Date Received: 01/31/23 16:46

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	45568	02/06/23 10:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	45544	02/07/23 04:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			45670	02/07/23 09:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			45933	02/13/23 17:08	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	45662	02/07/23 09:24	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45951	02/11/23 02:45	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Talon/LPE  
Project/Site: Amoco 1 Fed 2

Job ID: 890-4003-1  
SDG: Lea County NM

Client Sample ID: S-3  
Date Collected: 01/25/23 13:30  
Date Received: 01/31/23 16:46

Lab Sample ID: 890-4003-7  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	45408	02/03/23 15:20	KS	EET MID
Soluble	Analysis	300.0		1			45553	02/05/23 12:51	CH	EET MID

Client Sample ID: S-3  
Date Collected: 01/25/23 13:33  
Date Received: 01/31/23 16:46

Lab Sample ID: 890-4003-8  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	45568	02/06/23 10:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	45544	02/07/23 04:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			45670	02/07/23 09:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			45933	02/13/23 17:08	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	45662	02/07/23 09:24	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45951	02/11/23 03:07	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	45408	02/03/23 15:20	KS	EET MID
Soluble	Analysis	300.0		1			45553	02/05/23 12:57	CH	EET MID

Client Sample ID: S-3  
Date Collected: 01/25/23 13:38  
Date Received: 01/31/23 16:46

Lab Sample ID: 890-4003-9  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	45568	02/06/23 10:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	45544	02/07/23 04:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			45670	02/07/23 09:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			45933	02/13/23 17:08	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	45662	02/07/23 09:24	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45951	02/11/23 03:29	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	45408	02/03/23 15:20	KS	EET MID
Soluble	Analysis	300.0		1			45553	02/05/23 13:03	CH	EET MID

Client Sample ID: S-4  
Date Collected: 01/25/23 14:00  
Date Received: 01/31/23 16:46

Lab Sample ID: 890-4003-10  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	45568	02/06/23 10:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	45544	02/07/23 05:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			45670	02/07/23 09:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			45933	02/13/23 17:08	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	45662	02/07/23 09:24	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45951	02/11/23 04:14	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	45408	02/03/23 15:20	KS	EET MID
Soluble	Analysis	300.0		1			45553	02/05/23 13:10	CH	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Talon/LPE  
Project/Site: Amoco 1 Fed 2

Job ID: 890-4003-1  
SDG: Lea County NM

Client Sample ID: S-4  
Date Collected: 01/25/23 14:05  
Date Received: 01/31/23 16:46

Lab Sample ID: 890-4003-11  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	45568	02/06/23 10:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	45544	02/07/23 05:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			45670	02/07/23 09:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			45933	02/13/23 17:08	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	45662	02/07/23 09:24	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45951	02/11/23 03:51	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	45408	02/03/23 15:20	KS	EET MID
Soluble	Analysis	300.0		1			45553	02/05/23 13:16	CH	EET MID

Client Sample ID: S-4  
Date Collected: 01/25/23 14:13  
Date Received: 01/31/23 16:46

Lab Sample ID: 890-4003-12  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	45568	02/06/23 10:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	45544	02/07/23 06:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			45670	02/07/23 09:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			45933	02/13/23 17:08	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	45662	02/07/23 09:24	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45951	02/11/23 04:36	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	45408	02/03/23 15:20	KS	EET MID
Soluble	Analysis	300.0		1			45553	02/05/23 13:34	CH	EET MID

Client Sample ID: S-5  
Date Collected: 01/25/23 12:50  
Date Received: 01/31/23 16:46

Lab Sample ID: 890-4003-13  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	45568	02/06/23 10:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	45544	02/07/23 06:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			45670	02/07/23 09:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			45933	02/09/23 20:18	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	45688	02/07/23 12:06	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45831	02/09/23 18:05	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	45408	02/03/23 15:20	KS	EET MID
Soluble	Analysis	300.0		1			45553	02/05/23 13:40	CH	EET MID

Client Sample ID: S-6  
Date Collected: 01/25/23 12:55  
Date Received: 01/31/23 16:46

Lab Sample ID: 890-4003-14  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	45568	02/06/23 10:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	45544	02/07/23 06:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			45670	02/07/23 09:48	SM	EET MID

Eurofins Carlsbad



Lab Chronicle

Client: Talon/LPE  
Project/Site: Amoco 1 Fed 2

Job ID: 890-4003-1  
SDG: Lea County NM

Client Sample ID: S-6  
Date Collected: 01/25/23 12:55  
Date Received: 01/31/23 16:46

Lab Sample ID: 890-4003-14  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			45933	02/09/23 20:18	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	45688	02/07/23 12:06	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45831	02/09/23 18:27	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	45408	02/03/23 15:20	KS	EET MID
Soluble	Analysis	300.0		1			45553	02/05/23 13:59	CH	EET MID

Client Sample ID: S-7  
Date Collected: 01/25/23 12:58  
Date Received: 01/31/23 16:46

Lab Sample ID: 890-4003-15  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	45568	02/06/23 10:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	45544	02/07/23 07:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			45670	02/07/23 09:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			45933	02/09/23 20:18	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	45688	02/07/23 12:06	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45831	02/09/23 18:49	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	45408	02/03/23 15:20	KS	EET MID
Soluble	Analysis	300.0		1			45553	02/05/23 14:05	CH	EET MID

Laboratory References:  
EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Talon/LPE  
Project/Site: Amoco 1 Fed 2

Job ID: 890-4003-1  
SDG: Lea County NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Method Summary

Client: Talon/LPE  
Project/Site: Amoco 1 Fed 2

Job ID: 890-4003-1  
SDG: Lea County NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

- ASTM = ASTM International
- EPA = US Environmental Protection Agency
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
- TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

- EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Talon/LPE  
Project/Site: Amoco 1 Fed 2

Job ID: 890-4003-1  
SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4003-1	S-1	Solid	01/25/23 13:00	01/31/23 16:46	0-1'
890-4003-2	S-1	Solid	01/25/23 13:03	01/31/23 16:46	2'
890-4003-3	S-1	Solid	01/25/23 13:09	01/31/23 16:46	4'
890-4003-4	S-2	Solid	01/25/23 13:10	01/31/23 16:46	0-1'
890-4003-5	S-2	Solid	01/25/23 13:14	01/31/23 16:46	2'
890-4003-6	S-2	Solid	01/25/23 13:20	01/31/23 16:46	4'
890-4003-7	S-3	Solid	01/25/23 13:30	01/31/23 16:46	0-1'
890-4003-8	S-3	Solid	01/25/23 13:33	01/31/23 16:46	2'
890-4003-9	S-3	Solid	01/25/23 13:38	01/31/23 16:46	4'
890-4003-10	S-4	Solid	01/25/23 14:00	01/31/23 16:46	0-1'
890-4003-11	S-4	Solid	01/25/23 14:05	01/31/23 16:46	2'
890-4003-12	S-4	Solid	01/25/23 14:13	01/31/23 16:46	4'
890-4003-13	S-5	Solid	01/25/23 12:50	01/31/23 16:46	0'
890-4003-14	S-6	Solid	01/25/23 12:55	01/31/23 16:46	0'
890-4003-15	S-7	Solid	01/25/23 12:58	01/31/23 16:46	0'

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14



Environment Testing  
Xenco

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300  
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334  
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296  
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Chain of Custody

Work Order No: \_\_\_\_\_

www.xenco.com Page 1 of 2

Project Manager:	M. Gomez	Bill to: (if different)	
Company Name:	Talon LPE	Company Name:	
Address:	408 W. Texas Ave.	Address:	
City, State ZIP:	Artesia, NM 88210	City, State ZIP:	
Phone:	575.746.8768	Email:	mgomez@talonlpe.com, mrose@talonlpe.com

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

Project Name:	Amoco 1 Fed 2	Turn Around	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush	Pres. Code	
Project Number:	702520.047.01	Due Date:			
Project Location:	Lea County, NM	TAT starts the day received by the lab, if received by 4:30pm			
Sampler's Name:	N. Rose				
PO #:	N/A	Wet Ice:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
SAMPLE RECEIPT	Temp Blank: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Thermometer ID:	145-037		
Samples Received Inact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Correction Factor:	1.0		
Cooler Custody Seals:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Temperature Reading:	1.0		
Sample Custody Seals:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Corrected Temperature:	0.8		
Total Containers:					



890-4003 Chain of Custody

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	TPH	BTEX	ANALYSIS REQUEST	Preservative Codes	Sample Comments
S-1	Soil	1/25/2023	1:00	0-1'	Grab	1	X	X		None: NO DI Water: H <sub>2</sub> O	
S-1	Soil	1/25/2023	1:03	2'	Grab	1	X	X		Cool: Cool MeOH: Me	
S-1	Soil	1/25/2023	1:09	4'	Grab	1	X	X		HCL: HC HNO <sub>3</sub> : HN	
S-2	Soil	1/25/2023	1:10	0-1'	Grab	1	X	X		H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub>	
S-2	Soil	1/25/2023	1:14	2'	Grab	1	X	X		H <sub>3</sub> PO <sub>4</sub> : HP	
S-2	Soil	1/25/2023	1:20	4'	Grab	1	X	X		NaHSO <sub>4</sub> : NABIS	
S-3	Soil	1/25/2023	1:30	0-1'	Grab	1	X	X		Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>	
S-3	Soil	1/25/2023	1:33	2'	Grab	1	X	X		Zn Acetate+NaOH: Zn	
S-3	Soil	1/25/2023	1:38	4'	Grab	1	X	X		NaOH+Ascorbic Acid: SAPC	
S-4	Soil	1/25/2023	2:00	0-1'	Grab	1	X	X			

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO<sub>2</sub> Na Sr Ti Sn U V Zn  
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		1-21-23 1646			



## Environment Testing

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300  
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3333  
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296  
Hobbs, NM (575) 392-7650, Carlsbad, NM (575) 988-3199

**Work Order No:**

www.xenco.com Page 2 of 2

## Chain of Custody



Project Manager:	M. Gomez	Bill to: (if different)	
Company Name:	Talon LPE	Company Name:	
Address:	408 W. Texas Ave.	Address:	
City, State ZIP:	Artesia, NM 88210	City, State ZIP:	
Phone:	575.746.8768	Email:	mgomez@talonlpe.com, nrose@talonlpe.com

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

[illegible][illegible]

<b>Total</b>	<b>200.7 / 6010</b>	<b>200.8 / 6020:</b>	
8RCRA	13PPM	Texas 11	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO <sub>2</sub> Na Sr Ti Sn U V Zn
TCLP / SPLP 6010: 8RCRA		Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U	Hg: 1631 / 245.1 / 7470 / 7471

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		1-31-23 16:46			

Revised Date: 08/24/2020 Rev. 2020



## Login Sample Receipt Checklist

Client: Talon/LPE

Job Number: 890-4003-1

SDG Number: Lea County NM

Login Number: 4003

List Number: 1

Creator: Stutzman, Amanda

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

## Login Sample Receipt Checklist

Client: Talon/LPE

Job Number: 890-4003-1

SDG Number: Lea County NM

Login Number: 4003

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 02/03/23 01:00 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



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

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July 28, 2023

CHAD HENSLEY

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: AMOCO 1 FED 2

Enclosed are the results of analyses for samples received by the laboratory on 07/13/23 13:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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/ga/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/ga/lab_accred_certif.html).

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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:**TALON LPE  
408 W. TEXAS AVE.  
ARTESIA NM, 88210Project: AMOCO 1 FED 2  
Project Number: 702520.047.01  
Project Manager: CHAD HENSLEY  
Fax To: (575) 745-8905Reported:  
28-Jul-23 11:21

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
C - 1 2'	H233609-01	Soil	13-Jul-23 10:10	13-Jul-23 13:00
C - 2 2'	H233609-02	Soil	13-Jul-23 10:12	13-Jul-23 13:00
C - 3 2'	H233609-03	Soil	13-Jul-23 10:16	13-Jul-23 13:00
C - 4 2'	H233609-04	Soil	13-Jul-23 10:18	13-Jul-23 13:00
SW - 1 1'	H233609-05	Soil	13-Jul-23 10:44	13-Jul-23 13:00
SW - 2 1'	H233609-06	Soil	13-Jul-23 10:51	13-Jul-23 13:00
SW - 3 1'	H233609-07	Soil	13-Jul-23 10:57	13-Jul-23 13:00
SW - 4 1'	H233609-08	Soil	13-Jul-23 11:01	13-Jul-23 13:00

07/28/23 - Client clarified the project name. This is the revised report and will replace the one sent on 07/19/23.

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TALON LPE  
408 W. TEXAS AVE.  
ARTESIA NM, 88210

Project: AMOCO 1 FED 2  
Project Number: 702520.047.01  
Project Manager: CHAD HENSLEY  
Fax To: (575) 745-8905

Reported:  
28-Jul-23 11:21

**C - 1 2'**  
**H233609-01 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>80.0</b>		16.0	mg/kg	4	3071438	AC	14-Jul-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	3071342	JH/	14-Jul-23	8021B	
Toluene*	<0.050	0.050	mg/kg	50	3071342	JH/	14-Jul-23	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	3071342	JH/	14-Jul-23	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	3071342	JH/	14-Jul-23	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	3071342	JH/	14-Jul-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		117 %		71.5-134	3071342	JH/	14-Jul-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	3071423	MS	15-Jul-23	8015B	
DRO >C10-C28*	<b>102</b>	10.0	mg/kg	1	3071423	MS	15-Jul-23	8015B	
EXT DRO >C28-C36	<b>103</b>	10.0	mg/kg	1	3071423	MS	15-Jul-23	8015B	

Surrogate: 1-Chlorooctane		95.8 %		48.2-134	3071423	MS	15-Jul-23	8015B	
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Surrogate: 1-Chlorooctadecane		102 %		49.1-148	3071423	MS	15-Jul-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TALON LPE  
408 W. TEXAS AVE.  
ARTESIA NM, 88210

Project: AMOCO 1 FED 2  
Project Number: 702520.047.01  
Project Manager: CHAD HENSLEY  
Fax To: (575) 745-8905

Reported:  
28-Jul-23 11:21

**C - 2 2'**  
**H233609-02 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>96.0</b>		16.0	mg/kg	4	3071438	AC	14-Jul-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3071342	JH/	14-Jul-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3071342	JH/	14-Jul-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3071342	JH/	14-Jul-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3071342	JH/	14-Jul-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3071342	JH/	14-Jul-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			116 %	71.5-134		3071342	JH/	14-Jul-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3071423	MS	15-Jul-23	8015B	
DRO >C10-C28*	107		10.0	mg/kg	1	3071423	MS	15-Jul-23	8015B	
EXT DRO >C28-C36	116		10.0	mg/kg	1	3071423	MS	15-Jul-23	8015B	

Surrogate: 1-Chlorooctane			108 %	48.2-134		3071423	MS	15-Jul-23	8015B	
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Surrogate: 1-Chlorooctadecane			118 %	49.1-148		3071423	MS	15-Jul-23	8015B	
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Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TALON LPE  
408 W. TEXAS AVE.  
ARTESIA NM, 88210

Project: AMOCO 1 FED 2  
Project Number: 702520.047.01  
Project Manager: CHAD HENSLEY  
Fax To: (575) 745-8905

Reported:  
28-Jul-23 11:21

**C - 3 2'**  
**H233609-03 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>160</b>		16.0	mg/kg	4	3071438	AC	14-Jul-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3071342	JH/	14-Jul-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3071342	JH/	14-Jul-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3071342	JH/	14-Jul-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3071342	JH/	14-Jul-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3071342	JH/	14-Jul-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			118 %	71.5-134		3071342	JH/	14-Jul-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3071423	MS	15-Jul-23	8015B	
DRO >C10-C28*	<b>206</b>		10.0	mg/kg	1	3071423	MS	15-Jul-23	8015B	
EXT DRO >C28-C36	<b>201</b>		10.0	mg/kg	1	3071423	MS	15-Jul-23	8015B	

Surrogate: 1-Chlorooctane			94.6 %	48.2-134		3071423	MS	15-Jul-23	8015B	
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Surrogate: 1-Chlorooctadecane			111 %	49.1-148		3071423	MS	15-Jul-23	8015B	
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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TALON LPE  
408 W. TEXAS AVE.  
ARTESIA NM, 88210

Project: AMOCO 1 FED 2  
Project Number: 702520.047.01  
Project Manager: CHAD HENSLEY  
Fax To: (575) 745-8905

Reported:  
28-Jul-23 11:21

**C - 4 2'**  
**H233609-04 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>112</b>		16.0	mg/kg	4	3071438	AC	14-Jul-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3071342	JH/	14-Jul-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3071342	JH/	14-Jul-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3071342	JH/	14-Jul-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3071342	JH/	14-Jul-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3071342	JH/	14-Jul-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			118 %	71.5-134		3071342	JH/	14-Jul-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3071423	MS	15-Jul-23	8015B	
DRO >C10-C28*	<b>36.6</b>		10.0	mg/kg	1	3071423	MS	15-Jul-23	8015B	
EXT DRO >C28-C36	<b>45.4</b>		10.0	mg/kg	1	3071423	MS	15-Jul-23	8015B	

Surrogate: 1-Chlorooctane			103 %	48.2-134		3071423	MS	15-Jul-23	8015B	
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Surrogate: 1-Chlorooctadecane			110 %	49.1-148		3071423	MS	15-Jul-23	8015B	
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Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TALON LPE  
408 W. TEXAS AVE.  
ARTESIA NM, 88210

Project: AMOCO 1 FED 2  
Project Number: 702520.047.01  
Project Manager: CHAD HENSLEY  
Fax To: (575) 745-8905

Reported:  
28-Jul-23 11:21

**SW - 1 1'**  
**H233609-05 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>208</b>		16.0	mg/kg	4	3071438	AC	14-Jul-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3071342	JH/	14-Jul-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3071342	JH/	14-Jul-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3071342	JH/	14-Jul-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3071342	JH/	14-Jul-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3071342	JH/	14-Jul-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			118 %		71.5-134	3071342	JH/	14-Jul-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3071423	MS	15-Jul-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3071423	MS	15-Jul-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3071423	MS	15-Jul-23	8015B	

Surrogate: 1-Chlorooctane			61.7 %		48.2-134	3071423	MS	15-Jul-23	8015B	
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Surrogate: 1-Chlorooctadecane			64.9 %		49.1-148	3071423	MS	15-Jul-23	8015B	
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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

TALON LPE  
408 W. TEXAS AVE.  
ARTESIA NM, 88210

Project: AMOCO 1 FED 2  
Project Number: 702520.047.01  
Project Manager: CHAD HENSLEY  
Fax To: (575) 745-8905

Reported:  
28-Jul-23 11:21

**SW - 2 1'**  
**H233609-06 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>240</b>		16.0	mg/kg	4	3071438	AC	14-Jul-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3071342	JH/	14-Jul-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3071342	JH/	14-Jul-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3071342	JH/	14-Jul-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3071342	JH/	14-Jul-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3071342	JH/	14-Jul-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134 3071342 JH/ 14-Jul-23 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3071423	MS	15-Jul-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3071423	MS	15-Jul-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3071423	MS	15-Jul-23	8015B	

Surrogate: 1-Chlorooctane 102 % 48.2-134 3071423 MS 15-Jul-23 8015B

Surrogate: 1-Chlorooctadecane 107 % 49.1-148 3071423 MS 15-Jul-23 8015B

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

TALON LPE  
408 W. TEXAS AVE.  
ARTESIA NM, 88210

Project: AMOCO 1 FED 2  
Project Number: 702520.047.01  
Project Manager: CHAD HENSLEY  
Fax To: (575) 745-8905

Reported:  
28-Jul-23 11:21

**SW - 3 1'**  
**H233609-07 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>64.0</b>		16.0	mg/kg	4	3071438	AC	14-Jul-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3071342	JH/	14-Jul-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3071342	JH/	14-Jul-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3071342	JH/	14-Jul-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3071342	JH/	14-Jul-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3071342	JH/	14-Jul-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			117 %	71.5-134		3071342	JH/	14-Jul-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3071423	MS	15-Jul-23	8015B	
DRO >C10-C28*	97.2		10.0	mg/kg	1	3071423	MS	15-Jul-23	8015B	
EXT DRO >C28-C36	92.4		10.0	mg/kg	1	3071423	MS	15-Jul-23	8015B	

Surrogate: 1-Chlorooctane			108 %	48.2-134		3071423	MS	15-Jul-23	8015B	
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Surrogate: 1-Chlorooctadecane			117 %	49.1-148		3071423	MS	15-Jul-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TALON LPE  
408 W. TEXAS AVE.  
ARTESIA NM, 88210

Project: AMOCO 1 FED 2  
Project Number: 702520.047.01  
Project Manager: CHAD HENSLEY  
Fax To: (575) 745-8905

Reported:  
28-Jul-23 11:21

**SW - 4 1'**  
**H233609-08 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>320</b>		16.0	mg/kg	4	3071438	AC	14-Jul-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3071342	JH/	14-Jul-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3071342	JH/	14-Jul-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3071342	JH/	14-Jul-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3071342	JH/	14-Jul-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3071342	JH/	14-Jul-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			117 %	71.5-134		3071342	JH/	14-Jul-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3071423	MS	15-Jul-23	8015B	
DRO >C10-C28*	47.0		10.0	mg/kg	1	3071423	MS	15-Jul-23	8015B	
EXT DRO >C28-C36	41.7		10.0	mg/kg	1	3071423	MS	15-Jul-23	8015B	

Surrogate: 1-Chlorooctane			98.7 %	48.2-134		3071423	MS	15-Jul-23	8015B	
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Surrogate: 1-Chlorooctadecane			105 %	49.1-148		3071423	MS	15-Jul-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TALON LPE  
408 W. TEXAS AVE.  
ARTESIA NM, 88210

Project: AMOCO 1 FED 2  
Project Number: 702520.047.01  
Project Manager: CHAD HENSLEY  
Fax To: (575) 745-8905

Reported:  
28-Jul-23 11:21

**Inorganic Compounds - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 3071438 - 1:4 DI Water</b>									
<b>Blank (3071438-BLK1)</b>					Prepared & Analyzed: 14-Jul-23				
Chloride	ND	16.0	mg/kg						
<b>LCS (3071438-BS1)</b>					Prepared & Analyzed: 14-Jul-23				
Chloride	432	16.0	mg/kg	400		108	80-120		
<b>LCS Dup (3071438-BSD1)</b>					Prepared & Analyzed: 14-Jul-23				
Chloride	432	16.0	mg/kg	400		108	80-120	0.00	20

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**Analytical Results For:**

TALON LPE  
408 W. TEXAS AVE.  
ARTESIA NM, 88210

Project: AMOCO 1 FED 2  
Project Number: 702520.047.01  
Project Manager: CHAD HENSLEY  
Fax To: (575) 745-8905

Reported:  
28-Jul-23 11:21

**Volatile Organic Compounds by EPA Method 8021 - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 3071342 - Volatiles****Blank (3071342-BLK1)**

Prepared: 13-Jul-23 Analyzed: 14-Jul-23

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0573		mg/kg	0.0500		115	71.5-134			

**LCS (3071342-BS1)**

Prepared: 13-Jul-23 Analyzed: 14-Jul-23

Benzene	2.03	0.050	mg/kg	2.00		101	82.8-130			
Toluene	2.01	0.050	mg/kg	2.00		101	86-128			
Ethylbenzene	2.17	0.050	mg/kg	2.00		109	85.9-128			
m,p-Xylene	4.37	0.100	mg/kg	4.00		109	89-129			
o-Xylene	2.16	0.050	mg/kg	2.00		108	86.1-125			
Total Xylenes	6.53	0.150	mg/kg	6.00		109	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0523		mg/kg	0.0500		105	71.5-134			

**LCS Dup (3071342-BSD1)**

Prepared: 13-Jul-23 Analyzed: 14-Jul-23

Benzene	2.04	0.050	mg/kg	2.00		102	82.8-130	0.322	15.8	
Toluene	2.05	0.050	mg/kg	2.00		103	86-128	1.95	15.9	
Ethylbenzene	2.20	0.050	mg/kg	2.00		110	85.9-128	1.17	16	
m,p-Xylene	4.42	0.100	mg/kg	4.00		111	89-129	1.07	16.2	
o-Xylene	2.17	0.050	mg/kg	2.00		108	86.1-125	0.533	16.7	
Total Xylenes	6.59	0.150	mg/kg	6.00		110	88.2-128	0.893	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0537		mg/kg	0.0500		107	71.5-134			

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**Analytical Results For:**

TALON LPE  
408 W. TEXAS AVE.  
ARTESIA NM, 88210

Project: AMOCO 1 FED 2  
Project Number: 702520.047.01  
Project Manager: CHAD HENSLEY  
Fax To: (575) 745-8905

Reported:  
28-Jul-23 11:21

**Petroleum Hydrocarbons by GC FID - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 3071423 - General Prep - Organics****Blank (3071423-BLK1)**

Prepared &amp; Analyzed: 14-Jul-23

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	50.1		mg/kg	49.6		101	48.2-134			
Surrogate: 1-Chlorooctadecane	53.3		mg/kg	50.0		107	49.1-148			

**LCS (3071423-BS1)**

Prepared &amp; Analyzed: 14-Jul-23

GRO C6-C10	210	10.0	mg/kg	200		105	66.4-123			
DRO >C10-C28	209	10.0	mg/kg	200		104	66.5-118			
Total TPH C6-C28	418	10.0	mg/kg	400		105	77.6-123			
Surrogate: 1-Chlorooctane	51.0		mg/kg	49.6		103	48.2-134			
Surrogate: 1-Chlorooctadecane	58.0		mg/kg	50.0		116	49.1-148			

**LCS Dup (3071423-BS1)**

Prepared &amp; Analyzed: 14-Jul-23

GRO C6-C10	237	10.0	mg/kg	200		118	66.4-123	12.1	17.7	
DRO >C10-C28	223	10.0	mg/kg	200		111	66.5-118	6.52	21	
Total TPH C6-C28	459	10.0	mg/kg	400		115	77.6-123	9.36	18.5	
Surrogate: 1-Chlorooctane	56.6		mg/kg	49.6		114	48.2-134			
Surrogate: 1-Chlorooctadecane	62.5		mg/kg	50.0		125	49.1-148			

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Celey D. Keene, Lab Director/Quality Manager



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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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A handwritten signature in black ink, appearing to read "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

<b>Company Name:</b> Falcon CPE <b>Project Manager:</b> C. Hensley <b>Address:</b> 4108 W Texas <b>City:</b> Artesia <b>State:</b> NM <b>Zip:</b> 88210 <b>Phone #:</b> 575-746-8768 <b>Fax #:</b> <b>Project #:</b> 700580.04701 <b>Project Owner:</b> Matador <b>Project Name:</b> Amoco 1 Fed 002 <b>Project Location:</b> Lea County <b>Sampler Name:</b> W. Rose				<b>P.O. #:</b> <b>Company:</b> <b>Attn:</b> <b>Address:</b> <b>City:</b> <b>State:</b> <b>Zip:</b> <b>Phone #:</b> <b>Fax #:</b>				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>			
<b>FOR LAB USE ONLY</b>		<b>Lab I.D.</b>		<b>Sample I.D.</b>		<b>(G)RAB OR (C)OMP.</b>		<b># CONTAINERS</b>		<b>MATRIX</b> GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER :		<b>PRESERV</b>		<b>SAMPLING</b>	
		H233609				C		1		Y		7-13-23			
		1		C-1		C		1		Y		7-13-23		1010	
		2		C-2										1012	
		3		C-3										1016	
		4		C-4										1018	
		5		SW-1										1044	
		6		SW-2										1051	
		7		SW-3										1057	
		8		SW-4										1101	

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<b>Relinquished By:</b>		<b>Date:</b> 7-13-23		<b>Received By:</b>		<b>Verbal Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:	
<b>Relinquished By:</b>		<b>Time:</b> 1:300		<b>Received By:</b>		<b>REMARKS:</b>	
<b>Delivered By:</b> (Circle One)		<b>Observed Temp. °C:</b> 29.7		<b>Sample Condition:</b>		<b>CHECKED BY:</b> (Initials)	
<b>Sampler - UPS - Bus - Other:</b>		<b>Corrected Temp. °C:</b>		<input type="checkbox"/> Cool <input checked="" type="checkbox"/> Intact		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
<b>Turnaround Time:</b>		<b>Standard</b> <input type="checkbox"/> <b>Rush</b> <input checked="" type="checkbox"/>		<b>Bacteria (only)</b> <input type="checkbox"/> <b>Cool Intact</b> <input type="checkbox"/> <b>Yes</b> <input type="checkbox"/> <b>No</b> <input type="checkbox"/>		<b>Sample Condition</b> <input type="checkbox"/> <b>Observed Temp. °C</b>	
<b>Thermometer ID #443</b>		<b>#140</b>		<b>7-13-23</b>		<b>Corrected Temp. °C</b>	

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July 28, 2023

CHAD HENSLEY

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: AMOCO 1 FED 2

Enclosed are the results of analyses for samples received by the laboratory on 07/20/23 14:11.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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/ga/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/ga/lab_accred_certif.html).

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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:**TALON LPE  
408 W. TEXAS AVE.  
ARTESIA NM, 88210Project: AMOCO 1 FED 2  
Project Number: 702520.047.01  
Project Manager: CHAD HENSLEY  
Fax To: (575) 745-8905Reported:  
28-Jul-23 11:25

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
C - 1	H233794-01	Soil	20-Jul-23 12:20	20-Jul-23 14:11
C - 2	H233794-02	Soil	20-Jul-23 12:25	20-Jul-23 14:11
C - 3	H233794-03	Soil	20-Jul-23 12:30	20-Jul-23 14:11
SW - 3	H233794-04	Soil	20-Jul-23 12:35	20-Jul-23 14:11

07/28/23 - Client clarified the project name (see COC). This is the revised report and will replace the one sent on 07/26/23.

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TALON LPE  
408 W. TEXAS AVE.  
ARTESIA NM, 88210

Project: AMOCO 1 FED 2  
Project Number: 702520.047.01  
Project Manager: CHAD HENSLEY  
Fax To: (575) 745-8905

Reported:  
28-Jul-23 11:25

**C - 1****H233794-01 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	32.0		16.0	mg/kg	4	3072543	AC	25-Jul-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3072411	MS	26-Jul-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3072411	MS	26-Jul-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3072411	MS	26-Jul-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3072411	MS	26-Jul-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3072411	MS	26-Jul-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			119 %	71.5-134		3072411	MS	26-Jul-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3072306	MS	25-Jul-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3072306	MS	25-Jul-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3072306	MS	25-Jul-23	8015B	

Surrogate: 1-Chlorooctane			93.4 %	48.2-134		3072306	MS	25-Jul-23	8015B	
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Surrogate: 1-Chlorooctadecane			101 %	49.1-148		3072306	MS	25-Jul-23	8015B	
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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TALON LPE  
408 W. TEXAS AVE.  
ARTESIA NM, 88210

Project: AMOCO 1 FED 2  
Project Number: 702520.047.01  
Project Manager: CHAD HENSLEY  
Fax To: (575) 745-8905

Reported:  
28-Jul-23 11:25

**C - 2****H233794-02 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	64.0		16.0	mg/kg	4	3072543	AC	25-Jul-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3072411	MS	26-Jul-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3072411	MS	26-Jul-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3072411	MS	26-Jul-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3072411	MS	26-Jul-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3072411	MS	26-Jul-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			117 %		71.5-134	3072411	MS	26-Jul-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3072306	MS	25-Jul-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3072306	MS	25-Jul-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3072306	MS	25-Jul-23	8015B	

Surrogate: 1-Chlorooctane			90.3 %		48.2-134	3072306	MS	25-Jul-23	8015B	
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Surrogate: 1-Chlorooctadecane			98.2 %		49.1-148	3072306	MS	25-Jul-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TALON LPE  
408 W. TEXAS AVE.  
ARTESIA NM, 88210

Project: AMOCO 1 FED 2  
Project Number: 702520.047.01  
Project Manager: CHAD HENSLEY  
Fax To: (575) 745-8905

Reported:  
28-Jul-23 11:25

**C - 3****H233794-03 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	80.0		16.0	mg/kg	4	3072541	AC	25-Jul-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3072411	MS	26-Jul-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3072411	MS	26-Jul-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3072411	MS	26-Jul-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3072411	MS	26-Jul-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3072411	MS	26-Jul-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			114 %		71.5-134	3072411	MS	26-Jul-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3072306	MS	25-Jul-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3072306	MS	25-Jul-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3072306	MS	25-Jul-23	8015B	

Surrogate: 1-Chlorooctane			89.3 %		48.2-134	3072306	MS	25-Jul-23	8015B	
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Surrogate: 1-Chlorooctadecane			95.8 %		49.1-148	3072306	MS	25-Jul-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TALON LPE  
408 W. TEXAS AVE.  
ARTESIA NM, 88210

Project: AMOCO 1 FED 2  
Project Number: 702520.047.01  
Project Manager: CHAD HENSLEY  
Fax To: (575) 745-8905

Reported:  
28-Jul-23 11:25

**SW - 3****H233794-04 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>208</b>		16.0	mg/kg	4	3072541	AC	25-Jul-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3072411	MS	26-Jul-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3072411	MS	26-Jul-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3072411	MS	26-Jul-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3072411	MS	26-Jul-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3072411	MS	26-Jul-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134 3072411 MS 26-Jul-23 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3072306	MS	25-Jul-23	8015B	
DRO >C10-C28*	<b>728</b>		10.0	mg/kg	1	3072306	MS	25-Jul-23	8015B	
EXT DRO >C28-C36	<b>504</b>		10.0	mg/kg	1	3072306	MS	25-Jul-23	8015B	

Surrogate: 1-Chlorooctane 123 % 48.2-134 3072306 MS 25-Jul-23 8015B

Surrogate: 1-Chlorooctadecane 124 % 49.1-148 3072306 MS 25-Jul-23 8015B

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

TALON LPE  
408 W. TEXAS AVE.  
ARTESIA NM, 88210

Project: AMOCO 1 FED 2  
Project Number: 702520.047.01  
Project Manager: CHAD HENSLEY  
Fax To: (575) 745-8905

Reported:  
28-Jul-23 11:25

**Inorganic Compounds - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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**Batch 3072541 - 1:4 DI Water****Blank (3072541-BLK1)**

Prepared &amp; Analyzed: 25-Jul-23

Chloride	ND	16.0	mg/kg						
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**LCS (3072541-BS1)**

Prepared &amp; Analyzed: 25-Jul-23

Chloride	416	16.0	mg/kg	400	104	80-120			
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**LCS Dup (3072541-BSD1)**

Prepared &amp; Analyzed: 25-Jul-23

Chloride	400	16.0	mg/kg	400	100	80-120	3.92	20	
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**Batch 3072543 - 1:4 DI Water****Blank (3072543-BLK1)**

Prepared &amp; Analyzed: 25-Jul-23

Chloride	ND	16.0	mg/kg						
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**LCS (3072543-BS1)**

Prepared &amp; Analyzed: 25-Jul-23

Chloride	432	16.0	mg/kg	400	108	80-120			
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**LCS Dup (3072543-BSD1)**

Prepared &amp; Analyzed: 25-Jul-23

Chloride	448	16.0	mg/kg	400	112	80-120	3.64	20	
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**Analytical Results For:**

TALON LPE  
408 W. TEXAS AVE.  
ARTESIA NM, 88210

Project: AMOCO 1 FED 2  
Project Number: 702520.047.01  
Project Manager: CHAD HENSLEY  
Fax To: (575) 745-8905

Reported:  
28-Jul-23 11:25

**Volatile Organic Compounds by EPA Method 8021 - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 3072411 - Volatiles****Blank (3072411-BLK1)**

Prepared: 24-Jul-23 Analyzed: 26-Jul-23

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0579		mg/kg	0.0500		116	71.5-134			

**LCS (3072411-BS1)**

Prepared: 24-Jul-23 Analyzed: 26-Jul-23

Benzene	2.04	0.050	mg/kg	2.00		102	82.8-130			
Toluene	2.10	0.050	mg/kg	2.00		105	86-128			
Ethylbenzene	2.09	0.050	mg/kg	2.00		105	85.9-128			
m,p-Xylene	4.10	0.100	mg/kg	4.00		102	89-129			
o-Xylene	2.10	0.050	mg/kg	2.00		105	86.1-125			
Total Xylenes	6.20	0.150	mg/kg	6.00		103	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0544		mg/kg	0.0500		109	71.5-134			

**LCS Dup (3072411-BSD1)**

Prepared: 24-Jul-23 Analyzed: 26-Jul-23

Benzene	1.96	0.050	mg/kg	2.00		98.0	82.8-130	3.97	15.8	
Toluene	2.08	0.050	mg/kg	2.00		104	86-128	0.816	15.9	
Ethylbenzene	2.12	0.050	mg/kg	2.00		106	85.9-128	1.35	16	
m,p-Xylene	4.18	0.100	mg/kg	4.00		105	89-129	2.05	16.2	
o-Xylene	2.14	0.050	mg/kg	2.00		107	86.1-125	1.87	16.7	
Total Xylenes	6.32	0.150	mg/kg	6.00		105	88.2-128	1.99	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0578		mg/kg	0.0500		116	71.5-134			

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TALON LPE  
408 W. TEXAS AVE.  
ARTESIA NM, 88210

Project: AMOCO 1 FED 2  
Project Number: 702520.047.01  
Project Manager: CHAD HENSLEY  
Fax To: (575) 745-8905

Reported:  
28-Jul-23 11:25

**Petroleum Hydrocarbons by GC FID - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 3072306 - General Prep - Organics****Blank (3072306-BLK1)**

Prepared: 23-Jul-23 Analyzed: 25-Jul-23

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	43.2		mg/kg	50.0		86.4	48.2-134			
Surrogate: 1-Chlorooctadecane	47.6		mg/kg	50.0		95.1	49.1-148			

**LCS (3072306-BS1)**

Prepared: 23-Jul-23 Analyzed: 25-Jul-23

GRO C6-C10	207	10.0	mg/kg	200		104	66.4-123			
DRO >C10-C28	208	10.0	mg/kg	200		104	66.5-118			
Total TPH C6-C28	415	10.0	mg/kg	400		104	77.6-123			
Surrogate: 1-Chlorooctane	52.7		mg/kg	50.0		105	48.2-134			
Surrogate: 1-Chlorooctadecane	62.9		mg/kg	50.0		126	49.1-148			

**LCS Dup (3072306-BS1)**

Prepared: 23-Jul-23 Analyzed: 25-Jul-23

GRO C6-C10	214	10.0	mg/kg	200		107	66.4-123	3.25	17.7	
DRO >C10-C28	215	10.0	mg/kg	200		107	66.5-118	3.17	21	
Total TPH C6-C28	429	10.0	mg/kg	400		107	77.6-123	3.21	18.5	
Surrogate: 1-Chlorooctane	51.5		mg/kg	50.0		103	48.2-134			
Surrogate: 1-Chlorooctadecane	54.3		mg/kg	50.0		109	49.1-148			

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Celey D. Keene, Lab Director/Quality Manager



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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

Cardinal Laboratories

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 11 of 11



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

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August 07, 2023

CHAD HENSLEY

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: AMOCO 1 FED 2

Enclosed are the results of analyses for samples received by the laboratory on 07/28/23 14:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager





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**Analytical Results For:**

TALON LPE  
 CHAD HENSLEY  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received: 07/28/2023  
 Reported: 08/07/2023  
 Project Name: AMOCO 1 FED 2  
 Project Number: 702520.047.01  
 Project Location: MATADOR LEA CO NM

Sampling Date: 07/27/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SW - 3 (H234000-01)**

BTX 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	08/05/2023	ND	1.95	97.6	2.00	3.10	
Toluene*	<0.050	0.050	08/05/2023	ND	1.89	94.3	2.00	0.283	
Ethylbenzene*	<0.050	0.050	08/05/2023	ND	1.94	97.2	2.00	0.282	
Total Xylenes*	<0.150	0.150	08/05/2023	ND	5.73	95.5	6.00	0.749	
Total BTX	<0.300	0.300	08/05/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	64.0	16.0	08/04/2023	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	08/03/2023	ND	161	80.3	200	5.77	
DRO >C10-C28*	<10.0	10.0	08/03/2023	ND	183	91.7	200	3.46	
EXT DRO >C28-C36	<10.0	10.0	08/03/2023	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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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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Cardinal Laboratories

\*=Accredited Analyte

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

---

Celey D. Keene, Lab Director/Quality Manager



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

[illegible]

Report to:  
Chad Hensley



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Matador Resources, LLC.

Project Name: AMOCO 1 Fed

Work Order: E311039

Job Number: 23052-0001

Received: 11/6/2023

Revision: 2

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
11/13/23

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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

Date Reported: 11/13/23

Chad Hensley  
5400 LBJ Freeway, Suite 1500  
Dallas, TX 75240



Project Name: AMOCO 1 Fed  
Workorder: E311039  
Date Received: 11/6/2023 8:30:00AM

Chad Hensley,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/6/2023 8:30:00AM, under the Project Name: AMOCO 1 Fed.

The analytical test results summarized in this report with the Project Name: AMOCO 1 Fed apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

**Walter Hinchman**  
Laboratory Director  
Office: 505-632-1881  
Cell: 775-287-1762  
[whinchman@envirotech-inc.com](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
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**Alexa Michaels**  
Sample Custody Officer  
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**Southern New Mexico Area**

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Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AMOCO 1 Fed Project Number: 23052-0001 Project Manager: Chad Hensley	Reported: 11/13/23 12:09
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
C-1 5'	E311039-01A	Solid	11/02/23	11/06/23	Glass Jar, 2 oz.
C-2 5'	E311039-02A	Solid	11/02/23	11/06/23	Glass Jar, 2 oz.
C-3 5'	E311039-03A	Solid	11/02/23	11/06/23	Glass Jar, 2 oz.
C-4 5'	E311039-04A	Solid	11/02/23	11/06/23	Glass Jar, 2 oz.
SW-1	E311039-05A	Solid	11/02/23	11/06/23	Glass Jar, 2 oz.
SW-2	E311039-06A	Solid	11/02/23	11/06/23	Glass Jar, 2 oz.
SW-3	E311039-07A	Solid	11/02/23	11/06/23	Glass Jar, 2 oz.
SW-4	E311039-08A	Solid	11/02/23	11/06/23	Glass Jar, 2 oz.

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AMOCO 1 Fed Project Number: 23052-0001 Project Manager: Chad Hensley	Reported: 11/13/2023 12:09:50PM
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C-1 5'

E311039-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2345008	
Benzene	ND	0.0250	1	11/06/23	11/07/23	
Ethylbenzene	ND	0.0250	1	11/06/23	11/07/23	
Toluene	ND	0.0250	1	11/06/23	11/07/23	
o-Xylene	ND	0.0250	1	11/06/23	11/07/23	
p,m-Xylene	ND	0.0500	1	11/06/23	11/07/23	
Total Xylenes	ND	0.0250	1	11/06/23	11/07/23	
Surrogate: 4-Bromochlorobenzene-PID	100 %	70-130		11/06/23	11/07/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2345008	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/06/23	11/07/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.2 %	70-130		11/06/23	11/07/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2345034	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/23	11/08/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/23	11/08/23	
Surrogate: n-Nonane	95.4 %	50-200		11/07/23	11/08/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2345047	
Chloride	ND	20.0	1	11/07/23	11/09/23	



## Sample Data

Matador Resources, LLC.  
5400 LBJ Freeway, Suite 1500  
Dallas TX, 75240

Project Name: AMOCO 1 Fed  
Project Number: 23052-0001  
Project Manager: Chad Hensley

**Reported:**  
11/13/2023 12:09:50PM

C-2 5'

E311039-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>		mg/kg	mg/kg	Analyst: RKS		Batch: 2345008
Benzene	ND	0.0250	1	11/06/23	11/07/23	
Ethylbenzene	ND	0.0250	1	11/06/23	11/07/23	
Toluene	ND	0.0250	1	11/06/23	11/07/23	
o-Xylene	ND	0.0250	1	11/06/23	11/07/23	
p,m-Xylene	ND	0.0500	1	11/06/23	11/07/23	
Total Xylenes	ND	0.0250	1	11/06/23	11/07/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		100 %	70-130	11/06/23	11/07/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>		mg/kg	mg/kg	Analyst: RKS		Batch: 2345008
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/06/23	11/07/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.0 %	70-130	11/06/23	11/07/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>		mg/kg	mg/kg	Analyst: KM		Batch: 2345034
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/23	11/08/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/23	11/08/23	
<i>Surrogate: n-Nonane</i>		96.3 %	50-200	11/07/23	11/08/23	
<b>Anions by EPA 300.0/9056A</b>		mg/kg	mg/kg	Analyst: BA		Batch: 2345047
Chloride	ND	20.0	1	11/07/23	11/09/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AMOCO 1 Fed Project Number: 23052-0001 Project Manager: Chad Hensley	Reported: 11/13/2023 12:09:50PM
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C-3 5'

E311039-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2345008	
Benzene	ND	0.0250	1	11/06/23	11/07/23	
Ethylbenzene	ND	0.0250	1	11/06/23	11/07/23	
Toluene	ND	0.0250	1	11/06/23	11/07/23	
o-Xylene	ND	0.0250	1	11/06/23	11/07/23	
p,m-Xylene	ND	0.0500	1	11/06/23	11/07/23	
Total Xylenes	ND	0.0250	1	11/06/23	11/07/23	
Surrogate: 4-Bromochlorobenzene-PID	100 %	70-130		11/06/23	11/07/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2345008	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/06/23	11/07/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.7 %	70-130		11/06/23	11/07/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2345034	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/23	11/08/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/23	11/08/23	
Surrogate: n-Nonane	96.4 %	50-200		11/07/23	11/08/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2345047	
Chloride	ND	20.0	1	11/07/23	11/09/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AMOCO 1 Fed Project Number: 23052-0001 Project Manager: Chad Hensley	Reported: 11/13/2023 12:09:50PM
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C-4 5'

E311039-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: RKS		Batch: 2345008	
Benzene	ND	0.0250	1	11/06/23	11/07/23	
Ethylbenzene	ND	0.0250	1	11/06/23	11/07/23	
Toluene	ND	0.0250	1	11/06/23	11/07/23	
o-Xylene	ND	0.0250	1	11/06/23	11/07/23	
p,m-Xylene	ND	0.0500	1	11/06/23	11/07/23	
Total Xylenes	ND	0.0250	1	11/06/23	11/07/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.8 %	70-130		11/06/23	11/07/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: RKS		Batch: 2345008	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/06/23	11/07/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.7 %	70-130		11/06/23	11/07/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2345034	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/23	11/08/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/23	11/08/23	
<i>Surrogate: n-Nonane</i>						
	94.7 %	50-200		11/07/23	11/08/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2345047	
Chloride	ND	40.0	2	11/07/23	11/09/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AMOCO 1 Fed Project Number: 23052-0001 Project Manager: Chad Hensley	Reported: 11/13/2023 12:09:50PM
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SW-1

E311039-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2345008	
Benzene	ND	0.0250	1	11/06/23	11/07/23	
Ethylbenzene	ND	0.0250	1	11/06/23	11/07/23	
Toluene	ND	0.0250	1	11/06/23	11/07/23	
o-Xylene	ND	0.0250	1	11/06/23	11/07/23	
p,m-Xylene	ND	0.0500	1	11/06/23	11/07/23	
Total Xylenes	ND	0.0250	1	11/06/23	11/07/23	
Surrogate: 4-Bromochlorobenzene-PID	99.5 %	70-130		11/06/23	11/07/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2345008	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/06/23	11/07/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.8 %	70-130		11/06/23	11/07/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2345034	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/23	11/08/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/23	11/08/23	
Surrogate: n-Nonane	93.3 %	50-200		11/07/23	11/08/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2345047	
Chloride	ND	20.0	1	11/07/23	11/09/23	





Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AMOCO 1 Fed Project Number: 23052-0001 Project Manager: Chad Hensley	Reported: 11/13/2023 12:09:50PM
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SW-2

E311039-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2345008	
Benzene	ND	0.0250	1	11/06/23	11/07/23	
Ethylbenzene	ND	0.0250	1	11/06/23	11/07/23	
Toluene	ND	0.0250	1	11/06/23	11/07/23	
o-Xylene	ND	0.0250	1	11/06/23	11/07/23	
p,m-Xylene	ND	0.0500	1	11/06/23	11/07/23	
Total Xylenes	ND	0.0250	1	11/06/23	11/07/23	
Surrogate: 4-Bromochlorobenzene-PID	99.1 %	70-130		11/06/23	11/07/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2345008	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/06/23	11/07/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.6 %	70-130		11/06/23	11/07/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2345034	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/23	11/08/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/23	11/08/23	
Surrogate: n-Nonane	96.9 %	50-200		11/07/23	11/08/23	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2345047	
Chloride	ND	20.0	1	11/07/23	11/09/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AMOCO 1 Fed Project Number: 23052-0001 Project Manager: Chad Hensley	Reported: 11/13/2023 12:09:50PM
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SW-3

E311039-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: RKS		Batch: 2345008	
Benzene	ND	0.0250	1	11/06/23	11/07/23	
Ethylbenzene	ND	0.0250	1	11/06/23	11/07/23	
Toluene	ND	0.0250	1	11/06/23	11/07/23	
o-Xylene	ND	0.0250	1	11/06/23	11/07/23	
p,m-Xylene	ND	0.0500	1	11/06/23	11/07/23	
Total Xylenes	ND	0.0250	1	11/06/23	11/07/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.1 %	70-130		11/06/23	11/07/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: RKS		Batch: 2345008	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/06/23	11/07/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.6 %	70-130		11/06/23	11/07/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2345034	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/23	11/08/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/23	11/08/23	
<i>Surrogate: n-Nonane</i>						
	97.2 %	50-200		11/07/23	11/08/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2345047	
Chloride	ND	20.0	1	11/07/23	11/09/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AMOCO 1 Fed Project Number: 23052-0001 Project Manager: Chad Hensley	Reported: 11/13/2023 12:09:50PM
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SW-4

E311039-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: RKS		Batch: 2345008	
Benzene	ND	0.0250	1	11/06/23	11/07/23	
Ethylbenzene	ND	0.0250	1	11/06/23	11/07/23	
Toluene	ND	0.0250	1	11/06/23	11/07/23	
o-Xylene	ND	0.0250	1	11/06/23	11/07/23	
p,m-Xylene	ND	0.0500	1	11/06/23	11/07/23	
Total Xylenes	ND	0.0250	1	11/06/23	11/07/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.6 %	70-130		11/06/23	11/07/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: RKS		Batch: 2345008	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/06/23	11/07/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.4 %	70-130		11/06/23	11/07/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2345034	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/23	11/08/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/23	11/08/23	
<i>Surrogate: n-Nonane</i>						
	97.4 %	50-200		11/07/23	11/08/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2345047	
Chloride	ND	20.0	1	11/07/23	11/09/23	



QC Summary Data

Matador Resources, LLC.	Project Name:	AMOCO 1 Fed	Reported:  11/13/2023 12:09:50PM
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Chad Hensley	

Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2345008-BLK1) Prepared: 11/06/23 Analyzed: 11/07/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							

Surrogate: 4-Bromochlorobenzene-PID 7.86 8.00 98.3 70-130

LCS (2345008-BS1) Prepared: 11/06/23 Analyzed: 11/07/23

Benzene	4.45	0.0250	5.00		89.0	70-130			
Ethylbenzene	4.32	0.0250	5.00		86.5	70-130			
Toluene	4.48	0.0250	5.00		89.5	70-130			
o-Xylene	4.45	0.0250	5.00		89.0	70-130			
p,m-Xylene	8.96	0.0500	10.0		89.6	70-130			
Total Xylenes	13.4	0.0250	15.0		89.4	70-130			

Surrogate: 4-Bromochlorobenzene-PID 7.95 8.00 99.3 70-130

Matrix Spike (2345008-MS1) Source: E311035-22 Prepared: 11/06/23 Analyzed: 11/07/23

Benzene	4.52	0.0250	5.00	ND	90.4	54-133			
Ethylbenzene	4.39	0.0250	5.00	ND	87.8	61-133			
Toluene	4.54	0.0250	5.00	ND	90.9	61-130			
o-Xylene	4.49	0.0250	5.00	ND	89.8	63-131			
p,m-Xylene	9.07	0.0500	10.0	ND	90.7	63-131			
Total Xylenes	13.6	0.0250	15.0	ND	90.4	63-131			

Surrogate: 4-Bromochlorobenzene-PID 7.94 8.00 99.3 70-130

Matrix Spike Dup (2345008-MSD1) Source: E311035-22 Prepared: 11/06/23 Analyzed: 11/07/23

Benzene	4.57	0.0250	5.00	ND	91.5	54-133	1.11	20	
Ethylbenzene	4.45	0.0250	5.00	ND	89.0	61-133	1.40	20	
Toluene	4.60	0.0250	5.00	ND	92.0	61-130	1.22	20	
o-Xylene	4.56	0.0250	5.00	ND	91.1	63-131	1.47	20	
p,m-Xylene	9.21	0.0500	10.0	ND	92.1	63-131	1.51	20	
Total Xylenes	13.8	0.0250	15.0	ND	91.8	63-131	1.50	20	

Surrogate: 4-Bromochlorobenzene-PID 7.97 8.00 99.6 70-130



QC Summary Data

Matador Resources, LLC.	Project Name:	AMOCO 1 Fed	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Chad Hensley	11/13/2023 12:09:50PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2345008-BLK1) Prepared: 11/06/23 Analyzed: 11/07/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.27		8.00		90.9	70-130			

LCS (2345008-BS2) Prepared: 11/06/23 Analyzed: 11/07/23

Gasoline Range Organics (C6-C10)	43.3	20.0	50.0		86.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.25		8.00		90.6	70-130			

Matrix Spike (2345008-MS2) Source: E311035-22 Prepared: 11/06/23 Analyzed: 11/07/23

Gasoline Range Organics (C6-C10)	45.7	20.0	50.0	ND	91.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.32		8.00		91.5	70-130			

Matrix Spike Dup (2345008-MSD2) Source: E311035-22 Prepared: 11/06/23 Analyzed: 11/07/23

Gasoline Range Organics (C6-C10)	44.7	20.0	50.0	ND	89.3	70-130	2.27	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.29		8.00		91.2	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	AMOCO 1 Fed	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Chad Hensley	11/13/2023 12:09:50PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2345034-BLK1)					Prepared: 11/07/23 Analyzed: 11/07/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	47.6		50.0		95.1	50-200			

LCS (2345034-BS1)					Prepared: 11/07/23 Analyzed: 11/07/23				
Diesel Range Organics (C10-C28)	228	25.0	250		91.3	38-132			
Surrogate: n-Nonane	48.3		50.0		96.6	50-200			

Matrix Spike (2345034-MS1)					Source: E311051-05		Prepared: 11/07/23 Analyzed: 11/07/23		
Diesel Range Organics (C10-C28)	227	25.0	250	ND	91.0	38-132			
Surrogate: n-Nonane	47.0		50.0		94.0	50-200			

Matrix Spike Dup (2345034-MSD1)					Source: E311051-05		Prepared: 11/07/23 Analyzed: 11/07/23		
Diesel Range Organics (C10-C28)	249	25.0	250	ND	99.5	38-132	8.96	20	
Surrogate: n-Nonane	51.5		50.0		103	50-200			





QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: AMOCO 1 Fed Project Number: 23052-0001 Project Manager: Chad Hensley	Reported:  11/13/2023 12:09:50PM
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Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2345047-BLK1)					Prepared: 11/07/23 Analyzed: 11/09/23				
Chloride	ND	20.0							
LCS (2345047-BS1)					Prepared: 11/07/23 Analyzed: 11/09/23				
Chloride	258	20.0	250		103	90-110			
Matrix Spike (2345047-MS1)					Source: E311038-04		Prepared: 11/07/23 Analyzed: 11/09/23		
Chloride	279	200	250	ND	112	80-120			
Matrix Spike Dup (2345047-MSD1)					Source: E311038-04		Prepared: 11/07/23 Analyzed: 11/09/23		
Chloride	274	200	250	ND	109	80-120	2.12	20	

QC Summary Report Comment:  
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures.  
Therefore, hand calculated values may differ slightly.



Definitions and Notes

Matador Resources, LLC.	Project Name:	AMOCO 1 Fed	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
Dallas TX, 75240	Project Manager:	Chad Hensley	11/13/23 12:09

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.

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

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

Client: <u>Matador</u>					Bill To					Lab Use Only					TAT				EPA Program													
Project: <u>Amoco 1 Fed</u>					Attention: <u>Talun IPE</u>					Lab WO# <u>E311039</u>					Job Number <u>23052-0001</u>				1D	2D	3D	Standard	CWA	SDWA								
Project Manager: <u>C. Hensley</u>					Address:					Analysis and Method																						
Address: <u>408W Texas</u>					City, State, Zip																											
City, State, Zip <u>Artesia NM, 88210</u>					Phone:																											
Phone: <u>575-786-8768</u>					Email:																											
Email: <u>11082 @ Talun IPE.com</u>					Report due by:																											
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC - NM	TCEQ 1005- TX	State																		
														NM	CO	UT	AZ	TX	Remarks													
1100	11-2-23	Soil	1	C-1 5'	1	X	X	X			X			X																		
1115				C-2	2																											
1126				C-3	3																											
1129				C-4	4																											
1106				SW-1	5																											
1113				SW-2	6																											
1131				SW-3	7																											
1143				SW-4	8						X																					
Additional Instructions:																																
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.										Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.																						
Relinquished by: (Signature)					Date		Time		Received by: (Signature)					Date		Time		Lab Use Only														
<u>Michelle Kaylor</u>					11-2-23				<u>Michelle Kaylor</u>					11-3-23		1700		Received on ice: <u>(Y) N</u>														
Relinquished by: (Signature)					Date		Time		Received by: (Signature)					Date		Time		T1					T2					T3				
<u>Michelle Kaylor</u>					11-3-23		1730		<u>Andrew Mcke</u>					11-3-23		1830																
Relinquished by: (Signature)					Date		Time		Received by: (Signature)					Date		Time		AVG Temp °C														
<u>Andrew Mcke</u>					11-3-23		2400		<u>Rosine Fung</u>					11/6/23		8:30		4														
Relinquished by: (Signature)					Date		Time		Received by: (Signature)					Date		Time																
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																						
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																																



envirotec

## Envirotech Analytical Laboratory

Printed: 11/6/2023 11:45:49AM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Matador Resources, LLC.	Date Received:	11/06/23 08:30	Work Order ID:	E311039
Phone:	(972) 371-5200	Date Logged In:	11/03/23 16:08	Logged In By:	Jordan Montano
Email:		Due Date:	11/10/23 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/Resolution

Time sampled not provided on samples or COC. Collectors name not on samples.

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720  
**District II**  
811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 294140

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 294140
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nTO1419156096
Incident Name	NT01419156096 AMOCO 1 FEDERAL #002 @ 30-025-29848
Incident Type	Oil Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-025-29848] AMOCO 1 FEDERAL #002

Location of Release Source	
Please answer all the questions in this group.	
Site Name	AMOCO 1 FEDERAL #002
Date Release Discovered	08/19/2011
Surface Owner	Private

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Equipment Failure   Flow Line - Production   Crude Oil   Released: 4 BBL   Recovered: 3 BBL   Lost: 1 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	Not answered.
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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**District IV**

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

QUESTIONS, Page 2

Action 294140

**QUESTIONS (continued)**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID:	228937
	Action Number:	294140
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
Is this a gas only submission (i.e. only significant Mcf values reported)	<b>More info needed to determine if this will be treated as a "gas only" report.</b>
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Unavailable.
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

**Initial Response**

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

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

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

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

I hereby agree and sign off to the above statement	Name: Clint Talley Title: Assistant Foreman Email: clinton.talley@matadorresources.com Date: 12/13/2023
--	--



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

QUESTIONS, Page 3

Action 294140

**QUESTIONS (continued)**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID:	228937
	Action Number:	294140
	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	Estimate or Other
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Between 500 and 1000 (ft.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Greater than 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Zero feet, overlying, or within area
Did the release impact areas not on an exploration, development, production, or storage site	Yes

**Remediation Plan**

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

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

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

Chloride (EPA 300.0 or SM4500 Cl B)	334
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	1458.9
GRO+DRO (EPA SW-846 Method 8015M)	1160.9
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	07/13/2023
On what date will (or did) the final sampling or liner inspection occur	11/02/2023
On what date will (or was) the remediation complete(d)	11/02/2023
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	806
What is the estimated volume (in cubic yards) that will be remediated	119

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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**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
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**Santa Fe, NM 87505**

QUESTIONS, Page 4

Action 294140

**QUESTIONS (continued)**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 294140
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Remediation Plan (continued)</b>	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
<b>This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:</b>	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	Yes
What is the name of the NMED facility	Lea Land, LLC
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Clint Talley Title: Assistant Foreman Email: clinton.talley@matadorresources.com Date: 01/02/2024
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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Action 294140

**QUESTIONS (continued)**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 294140
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Deferral Requests Only</b>	
<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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Action 294140

**QUESTIONS (continued)**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID:	228937
	Action Number:	294140
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

Sampling Event Information	
Last sampling notification (C-141N) recorded	298976
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/15/2023
What was the (estimated) number of samples that were to be gathered	8
What was the sampling surface area in square feet	806

**Remediation Closure Request**

*Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.*

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	806
What was the total volume (cubic yards) remediated	119
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	806
What was the total volume (in cubic yards) reclaimed	119
Summarize any additional remediation activities not included by answers (above)	Release was contained to areas not reasonable needed for production operations.

*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: Clint Talley Title: Assistant Foreman Email: clinton.talley@matadorresources.com Date: 01/02/2024
--	--

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Action 294140

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 294140
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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CONDITIONS  
  
Action 294140

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 294140
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	None	1/9/2024