

Incident ID	nAPP2200659729
District RP	
Facility ID	
Application ID	

## Remediation Plan

**Remediation Plan Checklist:** *Each of the following items must be included in the plan.*

- ☐ Detailed description of proposed remediation technique
- ☐ Scaled sitemap with GPS coordinates showing delineation points
- ☐ Estimated volume of material to be remediated
- ☐ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☐ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

**Deferral Requests Only:** *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☒ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☒ Extents of contamination must be fully delineated.
- ☒ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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: Dale Woodall

Title: Environmental Professional

Signature: Dale Woodall

Date: 6/8/2023

email: [dale.woodall@dvn.com](mailto:dale.woodall@dvn.com)

Telephone: 575.748.1838

**OCD Only**Received by: Jocelyn Harimon Date: 06/13/2023☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☒ Deferral ApprovedSignature: Robert HamletDate: 11/14/2023

State of New Mexico  
Oil Conservation Division

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Signature: \_\_\_\_\_

Date: \_\_\_\_\_

talonlpe.com • 866.742.0742



## Remediation Report and Deferment Request

Mimosa 24 Fed 1H  
Eddy County, New Mexico  
API # 30-015-40626  
**Incident # nAPP2200659729**

### Prepared For:

Devon Energy Production Company  
6488 Seven Rivers Highway  
Artesia, New Mexico 88210

### Prepared By:

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

**June 8, 2023**

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**NMOCD District II**

506 W. Texas Avenue  
Artesia, New Mexico 88211

Subject: **Remediation Report and Deferment Request**  
Mimosa 24 Fed 1H  
Eddy County, New Mexico  
API # 30-015-40626  
**Incident # nAPP2200659729**

To Whom it May Concern,

Devon Energy Production Company (Devon) contracted Talon/LPE (Talon) to perform site characterization and remediation services at the above referenced location. The incident description, remedial actions, confirmation soil sampling results and deferment request and presented herein.

### **Site Information**

The Mimosa 24 Fed 1H is located approximately 14.4 miles southeast of Loco Hills, New Mexico. The legal location for this release is Unit Letter D, Section 24, Township 19 South and Range 31 East in Eddy County, New Mexico. The latitude and longitude for the site is 32.651910 and -103.830532. Site maps are presented in [Appendix I](#).

According to the soil survey provided by the United States Department of Agriculture National Resources Conservation Services, the soils in the area are made up of Wink loamy fine sand complex with 0 to 3 percent slopes, comprised of loamy fine sands and fine sandy loams. Per the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology consists of Piedmont alluvium deposits, Holocene to lower Pleistocene in age. Drainage courses in this area are typically well drained.

### **Groundwater and Site Characterization**

Based on New Mexico Office of the State Engineer Database, the nearest reported groundwater depth is 130 feet below ground surface (bgs) but is located greater than 0.5 miles from the subject site. The FEMA Flood Map Service Center does not locate the site in a 100-year flood plain. Further research of the Bureau of Land Management Karst data indicates the site is located in a low potential Karst area. See [Appendix II](#) for the site characterization data.



If a release occurs within the following areas, the responsible party must treat the release as if it occurred in an area where the groundwater is less than 50 feet bgs in Table I, New Mexico Oil Conservation Division (NMOCD) Rule 19.15.29 NMAC.

<b>Approximate Depth to Groundwater</b>	<b>130 feet/bgs</b>
---	---------------------

- ☐ Yes ☒ No Within 300 feet of any continuously flowing watercourse or any other significant watercourse
- ☐ Yes ☒ No Within 200 feet of any lakebed, sinkhole or a playa lake
- ☐ Yes ☒ No Within 300 feet from an occupied permanent residence, school, hospital, institution or church
- ☐ Yes ☒ No Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes
- ☐ Yes ☒ No Within 1000 feet of any freshwater well or spring
- ☐ Yes ☒ No Within incorporated municipal boundaries or within a defined municipal freshwater well field covered under a municipal ordinance adopted pursuant to Section 3-2703 NMSA 1978
- ☐ Yes ☒ No Within 300 feet of a wetland
- ☐ Yes ☒ No Within the area overlying a subsurface mine
- ☐ Yes ☒ No Within an unstable area
- ☐ Yes ☒ No Within a 100-year floodplain

Because the release occurred in a production area (well pad) but the depth to groundwater could not be confirmed within 0.5 miles of the site, the clean-up criteria for this incident is as follows.

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

On December 26, 2021, approximately 5.6 barrels (bbls) of produced water were discharged into the containment with some fluid spray to the pad area from a leak on the water transfer pump. A vacuum truck was dispatched and five (5) bbls of produced water were recovered from the containment. The release was reported to the NMOCD and was assigned incident # nAPP2200659729.

Site maps of the release are presented in [Appendix I](#). Initial C-141 spill notifications were filed with the NMOCD and are attached in [Appendix III](#).

### Site Assessment Activities

On March 24, 2022, soil samples were collected from the site at five (5) locations. An inspection of the tank battery liner was also completed while onsite. The integrity of the containment was noted as compromised in the northeast corner with staining observed on the pad. All samples were transported via 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).

Results from the initial sampling event are presented on the following data table and the complete laboratory reports can be found in [Appendix V](#). Site assessment sample locations are shown on the attached Figure 1 in [Appendix I](#).

**Table I**  
*Site Assessment Analytical Data*

Sample ID	Sample Date	Depth (BGS)	BTEX mg/kg	Benzene 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			50 mg/kg	10 mg/kg	DRO + GRO + MRO combined = 100 mg/kg			100 mg/kg	600 mg/kg
S-1	3/24/2022	0-1'	ND	ND	ND	ND	ND	ND	160
S-2	3/24/2022	0-0.5'	ND	ND	ND	ND	ND	ND	112
S-3	3/24/2022	0-0.5'	ND	ND	ND	ND	ND	ND	48
S-4	3/24/2022	0-0.5'	ND	ND	ND	ND	ND	ND	128
S-5	3/24/2022	0-1'	ND	ND	ND	ND	ND	ND	880
ND – Analyte Not Detected									

## Remediation Activities

Upon client authorization, excavation activities were completed on May 19, 2022. Confirmation samples were collected on May 19, 2022, and June 13, 2022, to confirm that NMOCD closure criteria had been met, the results of which can be found in the following data table. The sidewall samples, SSW-1 and WSW-1, could not be advanced further due to accessibility and structural integrity issues. Upon NMOCD request, horizontal delineation sidewall samples (SWS-1 (D) and WSW-1 (D)) were collected to verify the boundaries of the release in these two areas outside of the excavated area. Confirmation and delineation sample locations and excavation dimensions can be found on the confirmation sample map (Figure 2) in [Appendix I](#). Confirmation samples were transported with the chain of custody to Eurofins Laboratories Inc., for analysis of Total Chlorides (EPA Method 300.0), Total Petroleum Hydrocarbons (TPH, EPA Method 8015B NM) and Volatile Organics (BTEX, EPA Method 8021B). Horizontal delineation sidewall samples were delivered with the chain of custody to Cardinal Laboratories. Complete laboratory reports for the remediation efforts are attached in [Appendix V](#).

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

Sample ID	Sample Date	Depth (BGS)	BTEX mg/kg	Benzene 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>50 mg/kg</b>	<b>10 mg/kg</b>	<b>DRO + GRO + MRO combined = 100 mg/kg</b>			<b>100 mg/kg</b>	<b>600 mg/kg</b>
<b>S-5 A</b>	5/19/2022	4'	ND	ND	17.4	24.6	ND	42	114
<b>S-6</b>	6/13/2022	1'	ND	ND	15.2	ND	21.7	36.9	106
<b>S-7</b>	6/13/2022	1'	ND	ND	15.3	ND	23.5	38.8	106
<b>NSW-1</b>	5/19/2022	4'	ND	ND	ND	24.3	ND	24.3	46
<b>ESW-1</b>	5/19/2022	4'	ND	ND	ND	26.4	ND	26.4	175
<b>SSW-1</b>	5/19/2022	4'	ND	ND	26.3	21.7	ND	48	1,080
<b>WSW-1</b>	5/19/2022	4'	ND	ND	21.2	28.7	ND	49.9	1,000
<b>Delineation Sidewall Samples</b>									
<b>SWS-1 (D)</b>	2/23/2023	0'	ND	ND	ND	ND	ND	ND	32
<b>WSW-1 (D)</b>	2/23/2023	0'	ND	ND	ND	ND	ND	ND	528
NSW – North Sidewall    ESW – East Sidewall    SSW – South Sidewall    WSW- West Sidewall D – Delineation    ND – Analyte Not Detected									

---

### Remedial Action Summary

- The impacted area was excavated to a depth of 4 feet bgs. Vertical confirmation analytical results were achieved at sample location S-5A.
- The removal of impacted soils along the south side wall of the excavation (soil sample SSW-1) and west side wall (soil sample WSW-1) could not be advanced further due to accessibility and existing infrastructure. See Figure 2. Horizontal delineation samples of SWS-1 (D) and WSW-1 (D) were subsequently collected to ensure the areas outside of the excavation and infrastructure areas were not impacted from the release.
- The liner was subsequently repaired and confirmed by inspection on August 8, 2022. Photographic documentation is presented in [Appendix IV](#).
- Pursuant to NMOCD guidance, confirmation soil samples were collected at 200 square foot intervals and analyzed for TPH, BTEX and Total Chlorides to insure NMOCD closure criteria had been met, to the extent practicable.
- The excavated areas on the well pad were backfilled with new caliche, machine compacted and contoured to match the surrounding location.
- Approximately 36 cubic yards of excavated material was transported to R360, a NMOCD approved solid waste disposal facility.
- A copy of the Final C-141 is presented in [Appendix III](#).

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### Deferment Request

Based upon the completed remedial actions and confirmation sampling results, on behalf of Devon Energy Production Company we respectfully request that no further actions be required for this incident until facility closure for the deferment area.

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

Kayla Taylor  
Project Manager

David J. Adkins  
Regional Manager

Attachments:

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



## Appendix I

### Site Maps





Drafted: 6/22/2022

1 in = 25 ft

Drafted By: IJR

Devon Energy Production Company  
Mimosa 24 Fed 1H  
Eddy County, New Mexico  
Incident # nAPP2200659729  
Figure 1 - Site Assessment Map





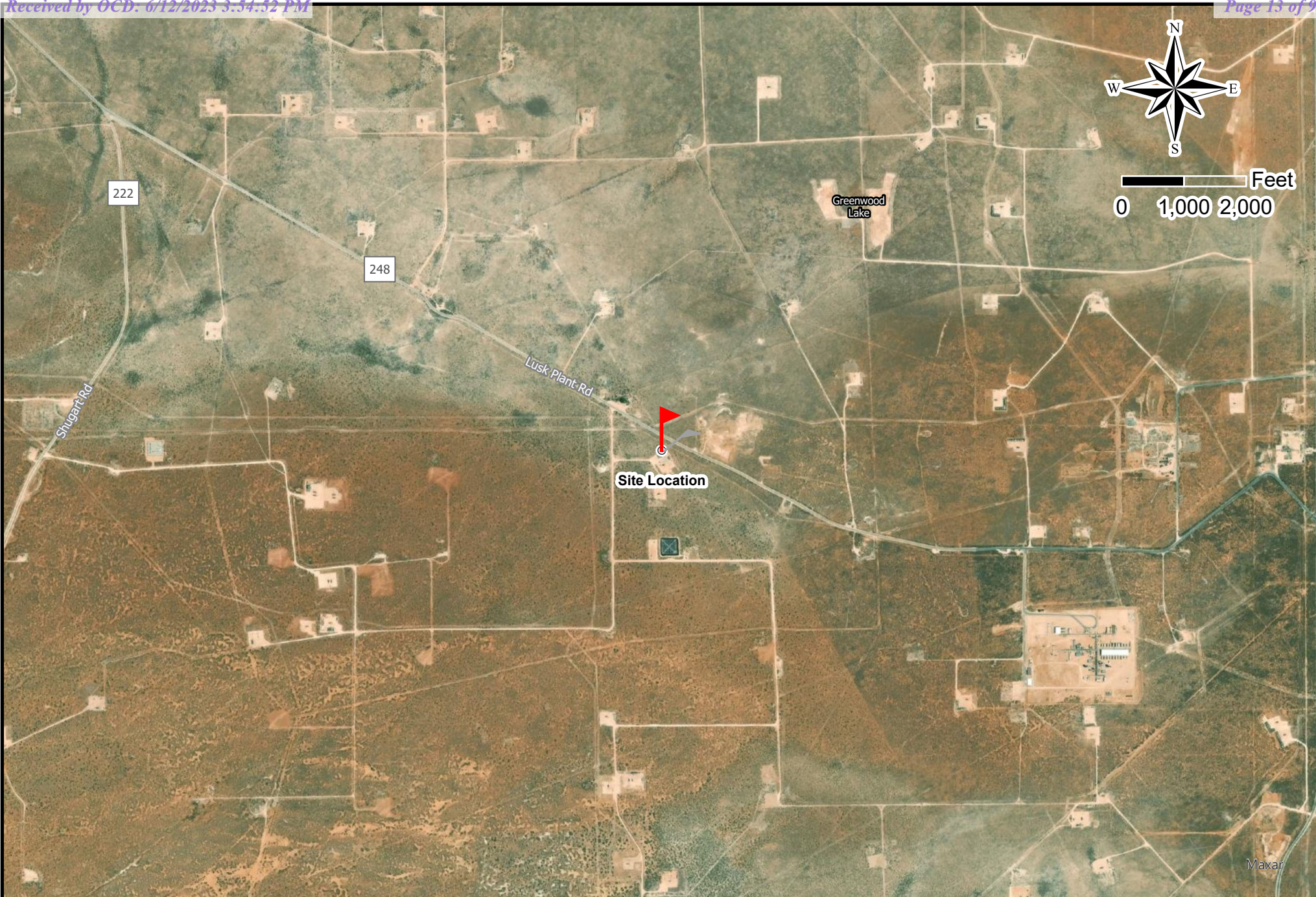
Drafted: 6/12/2023

1 in = 20 ft

Drafted By: IJR

Devon Energy Production Company  
Mimosa 24 Fed 1H  
Eddy County, New Mexico  
Incident # nAPP2200659729  
Figure 2 - Confirmation Sample Map





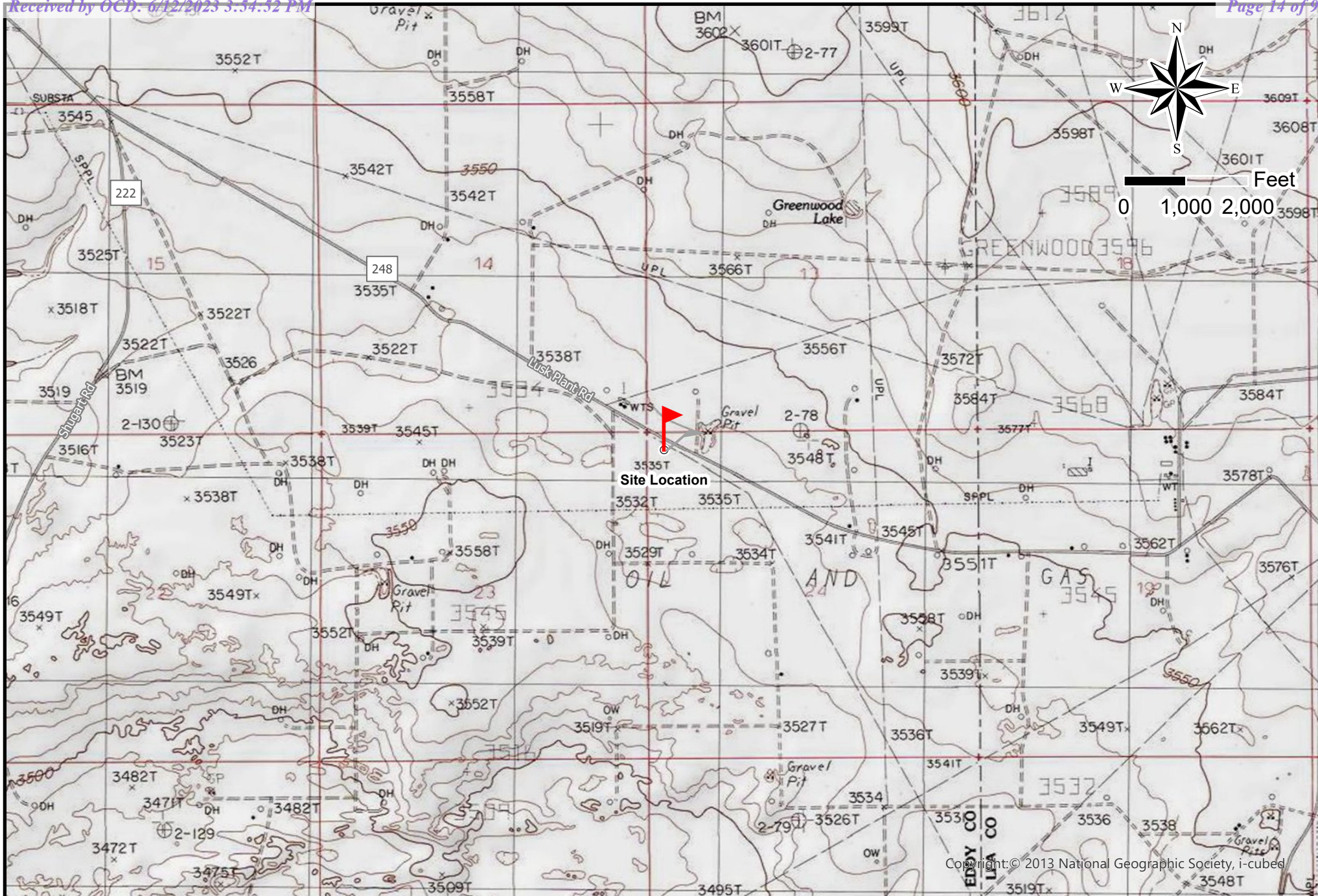
Drafted: 6/21/2022

1 in = 2,000 ft

Drafted By: IJR

Devon Energy Production Company  
Mimosa 24 Fed 1H  
Eddy County, New Mexico  
Incident # nAPP2200659729  
Figure 3 - Site Location Map





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Drafted: 6/21/2022

1 in = 2,000 ft

Drafted By: IJR

Devon Energy Production Company  
 Mimosa 24 Fed 1H  
 Eddy County, New Mexico  
 Incident # nAPP2200659729  
 Figure 4 - Topographic Map





Drafted: 6/21/2022  
1 in = 2,000 ft  
Drafted By: IJR

Devon Energy Production Company  
Mimosa 24 Fed 1H  
Eddy County, New Mexico  
Incident # nAPP2200659729  
Figure 5 - Karst Map



## **Appendix II**

Groundwater and Soil Data

FEMA Flood Map



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

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

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	DepthWell	DepthWater	Water Column
<a href="#">CP 00641 POD1</a>		CP	ED	4	1	36	19S	31E		610247	3609634*	300	130	170
<a href="#">CP 00642 POD1</a>		CP	ED	2	2	25	19S	31E		611025	3611657*	250		
<a href="#">CP 00722 POD1</a>		CP	LE	4	3	3	28	19S	31E	605106	3610273*	200		
<a href="#">CP 00722 POD1</a>	R	CP	LE	4	3	3	28	19S	31E	605106	3610273*	200		
<a href="#">CP 00722 POD3</a>		CP	LE	2	4	1	33	19S	31E	605519	3609673*	220	140	80
<a href="#">CP 00723 POD1</a>		CP	ED	2	1	1	33	19S	31E	605111	3610071*	139		
<a href="#">CP 00725 POD1</a>		CP	ED	1	3	3	28	19S	31E	604906	3610473*	231		
<a href="#">CP 00829 POD1</a>		CP	LE	2	4	16	19S	31E		606165	3614009*	120		
<a href="#">CP 00873 POD1</a>		CP	LE	1	1	19	19S	31E		601772	3613147*	340	180	160
<a href="#">CP 01554 POD1</a>		CP	LE	2	2	1	22	19S	31E	607166	3613354	400		
<a href="#">CP 01554 POD2</a>		CP	LE	2	2	1	22	19S	31E	607165	3613322	400		
<a href="#">CP 01864 POD1</a>		CP	ED	4	2	1	34	19S	31E	607068	3609824	110		

Average Depth to Water: **150 feet**

Minimum Depth: **130 feet**

Maximum Depth: **180 feet**

**Record Count:** 12

**PLSS Search:**

**Township:** 19S **Range:** 31E

\*UTM location was derived from PLSS - see Help

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

3/17/22 7:45 AM

WATER COLUMN/ AVERAGE DEPTH TO  
WATER





Map Unit Description: Wink loamy fine sand, 0 to 3 percent slopes, eroded---Eddy Area, New Mexico

Mimosa 24 Fed Battery

## Eddy Area, New Mexico

### WK—Wink loamy fine sand, 0 to 3 percent slopes, eroded

#### Map Unit Setting

*National map unit symbol:* 1w6c

*Elevation:* 2,700 to 5,000 feet

*Mean annual precipitation:* 5 to 14 inches

*Mean annual air temperature:* 57 to 70 degrees F

*Frost-free period:* 180 to 250 days

*Farmland classification:* Not prime farmland

#### Map Unit Composition

*Wink and similar soils:* 98 percent

*Minor components:* 2 percent

*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### Description of Wink

##### Setting

*Landform:* Swales, depressions

*Landform position (three-dimensional):* Talf

*Down-slope shape:* Convex

*Across-slope shape:* Convex

*Parent material:* Mixed alluvium and/or eolian sands

##### Typical profile

*H1 - 0 to 8 inches:* loamy fine sand

*H2 - 8 to 38 inches:* fine sandy loam

*H3 - 38 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:* Very low

*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:* 30 percent

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

*Sodium adsorption ratio, maximum:* 1.0

*Available water supply, 0 to 60 inches:* Low (about 5.7 inches)

##### Interpretive groups

*Land capability classification (irrigated):* None specified

*Land capability classification (nonirrigated):* 7e

*Hydrologic Soil Group:* A

Map Unit Description: Wink loamy fine sand, 0 to 3 percent slopes, eroded---Eddy Area, New Mexico

Mimosa 24 Fed Battery

*Ecological site:* R042XC003NM - Loamy Sand  
*Hydric soil rating:* No

#### Minor Components

##### Simona

*Percent of map unit:* 1 percent  
*Ecological site:* R042XC002NM - Shallow Sandy  
*Hydric soil rating:* No

##### Wink

*Percent of map unit:* 1 percent  
*Ecological site:* R042XC004NM - Sandy  
*Hydric soil rating:* No

## Data Source Information

Soil Survey Area: Eddy Area, New Mexico  
Survey Area Data: Version 17, Sep 12, 2021



# National Flood Hazard Layer FIRMette



103°50'9"W 32°39'22"N



## Legend

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

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



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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 8/23/2022 at 10:58 AM 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	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	OGRID
Contact Name	Contact Telephone
Contact email	Incident # (assigned by OCD)
Contact mailing address	

Location of Release Source

Latitude \_\_\_\_\_ Longitude \_\_\_\_\_  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Site Type
Date Release Discovered	API# (if applicable)

Unit Letter	Section	Township	Range	County

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 type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of total dissolved solids (TDS) 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

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?  <input type="checkbox"/> Yes <input 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 type="checkbox"/> The source of the release has been stopped.	
<input type="checkbox"/> The impacted area has been secured to protect human health and the environment.	
<input type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
<input 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: _____	Title: _____
Signature: <u>Kendra DeHoyos</u>	Date: _____
email: _____	Telephone: _____
<b><u>OCD Only</u></b>	
Received by: <u>Ramona Marcus</u>	Date: <u>1/10/2022</u>

NAPP2200659729

Spills In Lined Containment	
Measurements Of Standing Fluid	
Length(Ft)	10
Width(Ft)	50
Depth(in.)	0.75
Total Capacity without tank displacements (bbls)	5.57
No. of 500 bbl Tanks In Standing Fluid	
No. of Other Tanks In Standing Fluid	
OD Of Other Tanks In Standing Fluid(feet)	
Total Volume of standing fluid accounting for tank displacement.	5.57

Spill Volume(Bbls) Calculator		
Inputs in blue, Outputs in red		
Contaminated Soil measurement		
Length(Ft)	Width(Ft)	Depth(Ft)
10	30.000	0.021
Cubic Feet of Soil Impacted		6.300
Barrels of Soil Impacted		1.12
Soil Type		Clay/Sand
Barrels of Oil Assuming 100% Saturation		0.17
Saturation	Fluid present with shovel/backhoe	
Estimated Barrels of Oil Released		0.17
Free Standing Fluid Only		
Length(Ft)	Width(Ft)	Depth(Ft)
Standing fluid		0.000
Total fluids spilled		0.168

State of New Mexico  
Oil Conservation Division

Incident ID	nAPP2200659729
District RP	
Facility ID	
Application ID	

## Remediation Plan

**Remediation Plan Checklist:** *Each of the following items must be included in the plan.*

- ☐ Detailed description of proposed remediation technique
- ☐ Scaled sitemap with GPS coordinates showing delineation points
- ☐ Estimated volume of material to be remediated
- ☐ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☐ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

**Deferral Requests Only:** *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☒ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☒ Extents of contamination must be fully delineated.
- ☒ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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: Dale Woodall

Title: Environmental Professional

Signature: Dale Woodall

Date: 6/8/2023

email: [dale.woodall@dnv.com](mailto:dale.woodall@dnv.com)

Telephone: 575.748.1838

**OCD Only**

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

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: \_\_\_\_\_

Date: \_\_\_\_\_



## Kayla Taylor

---

**From:** Kayla Taylor  
**Sent:** Thursday, March 17, 2022 3:07 PM  
**To:** OCD.Enviro@state.nm.us  
**Subject:** 48 Hour Notification of Liner Inspection at Mimosa 24 Fed 1H

All,

Please accept this email as 48-hr notification, Talon LPE has scheduled a liner inspection to be conducted at Mimosa 24 Fed 1H Tank Battery for the following release:

nAPP2200659729  
DOR: 12/26/2021

This work will be completed on behalf of Devon Energy Production Company.

On Tuesday, March 22, 2022 Talon LPE will be onsite inspecting the tank battery liner. If you need directions to the site, have any questions or concerns regarding this notification, please give me a call at 432-210-5443.

**Kayla Taylor**  
**Project Manager**  
Office: 432.522.2133 x 504  
Cell: 432.210.5443  
Fax: 432.522.2180  
Emergency: 866.742.0742  
Web: [www.talonlpe.com](http://www.talonlpe.com)



## Kayla Taylor

---

**From:** Kayla Taylor  
**Sent:** Wednesday, June 8, 2022 5:55 PM  
**To:** OCD.Enviro@state.nm.us  
**Subject:** Confirmation Sampling of nAPP2200659729

Confirmation sampling of the Devon Mimosa 24 Fed 1H; Incident nAPP2200659729 will be performed on Monday, June 13, 2022 at 11am.

Let me know if there are any questions.

### Kayla Taylor

#### Project Manager

Office: 432.522.2133 x  
Direct: 432.210.5443  
Cell: 432.210.5443  
Fax: 432.522.2180  
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).



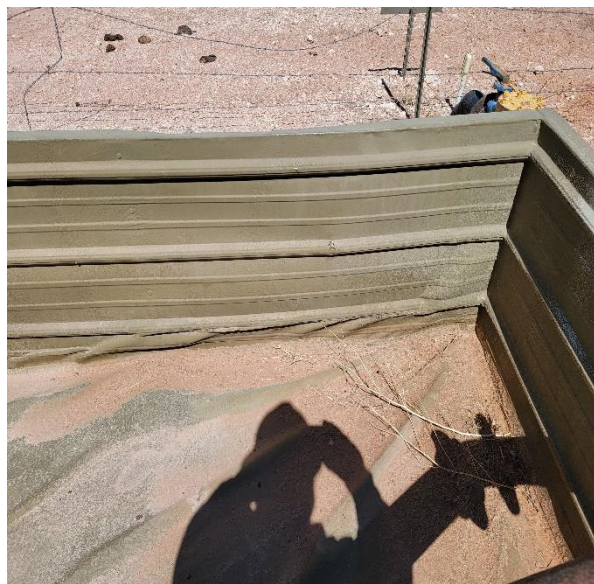


## Appendix IV

### Photographic Documentation

**Photograph No.1 Description:**

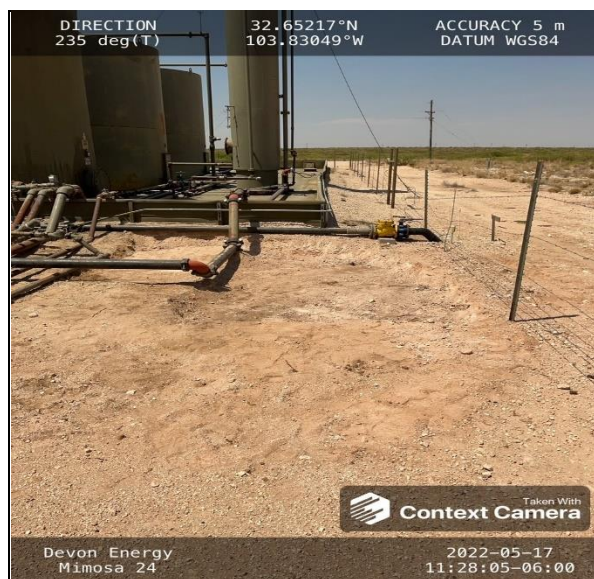
View of release area.

**Photograph No.2 Description:**

View of impaired liner adjacent to the release area.

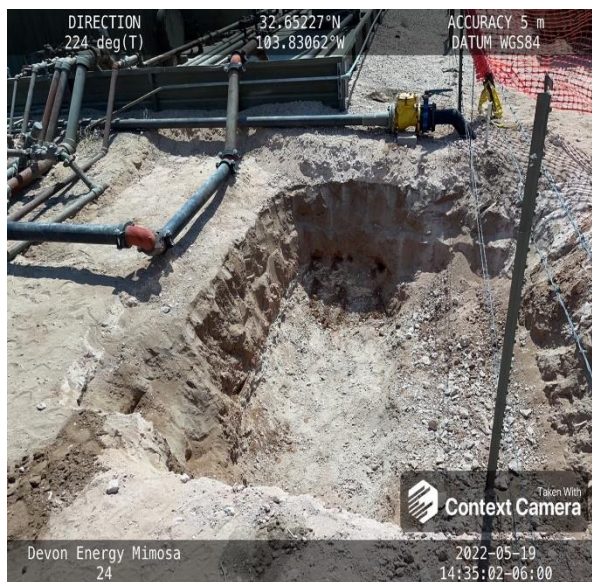
**Photograph No.3 Description:**

View of lined secondary containment.

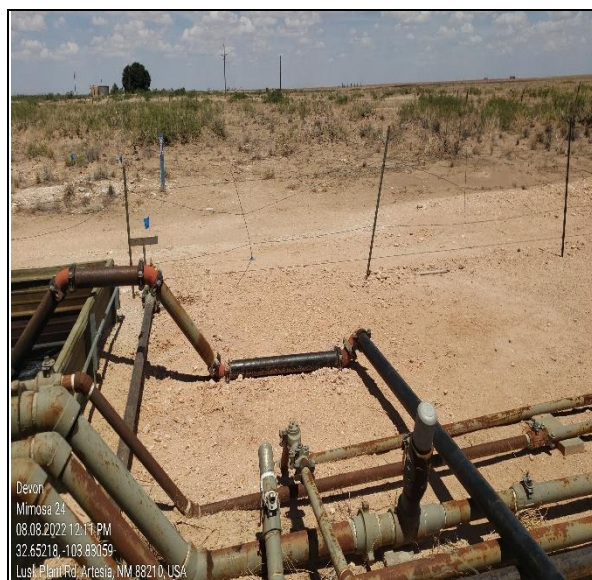
**Photograph No.4 Description:**

View of release area with surface scrape completed.

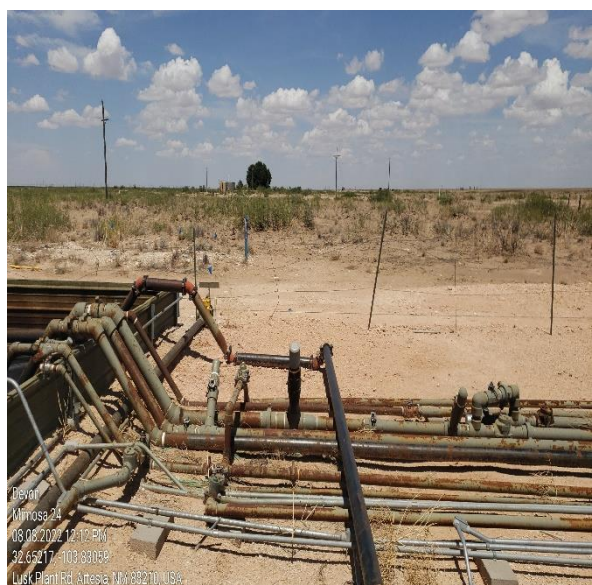


**Photograph No.5 Description:**

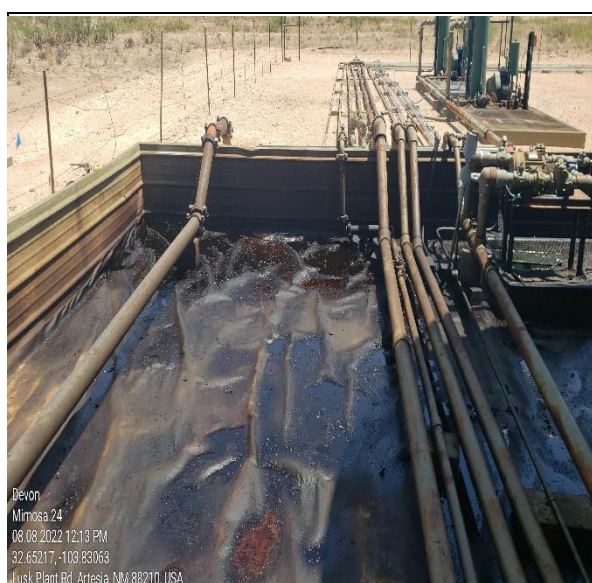
Excavation area

**Photograph No.6 Description:**

View of backfilled excavation.

**Photograph No.7 Description:**

View of backfilled excavation.

**Photograph No.8 Description:**

View of corner liner repair.



## **Appendix V**

### Laboratory Analytical Data



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

---

March 29, 2022

REBECCA PONS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: MIMOSA 24 FED COM

Enclosed are the results of analyses for samples received by the laboratory on 03/25/22 8:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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



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

**Analytical Results For:**

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

Received: 03/25/2022  
 Reported: 03/29/2022  
 Project Name: MIMOSA 24 FED COM  
 Project Number: 700794.370.01  
 Project Location: EDDY CO NM

Sampling Date: 03/24/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: S - 1 0-1" (H221177-01)**

BTEX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2022	ND	1.79	89.3	2.00	2.77	
Toluene*	<0.050	0.050	03/28/2022	ND	2.00	100	2.00	3.08	
Ethylbenzene*	<0.050	0.050	03/28/2022	ND	2.11	106	2.00	2.54	
Total Xylenes*	<0.150	0.150	03/28/2022	ND	6.57	109	6.00	2.55	
Total BTEX	<0.300	0.300	03/28/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	03/28/2022	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	03/28/2022	ND	186	92.9	200	2.12	
DRO >C10-C28*	<10.0	10.0	03/28/2022	ND	178	88.9	200	3.95	
EXT DRO >C28-C36	<10.0	10.0	03/28/2022	ND					

Surrogate: 1-Chlorooctane 103 % 66.9-136

Surrogate: 1-Chlorooctadecane 109 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 03/25/2022  
 Reported: 03/29/2022  
 Project Name: MIMOSA 24 FED COM  
 Project Number: 700794.370.01  
 Project Location: EDDY CO NM

Sampling Date: 03/24/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: S - 2 0-6" (H221177-02)**

BTEx 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2022	ND	1.79	89.3	2.00	2.77	
Toluene*	<0.050	0.050	03/28/2022	ND	2.00	100	2.00	3.08	
Ethylbenzene*	<0.050	0.050	03/28/2022	ND	2.11	106	2.00	2.54	
Total Xylenes*	<0.150	0.150	03/28/2022	ND	6.57	109	6.00	2.55	
Total BTEX	<0.300	0.300	03/28/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	03/28/2022	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	03/28/2022	ND	186	92.9	200	2.12	
DRO >C10-C28*	<10.0	10.0	03/28/2022	ND	178	88.9	200	3.95	
EXT DRO >C28-C36	<10.0	10.0	03/28/2022	ND					

Surrogate: 1-Chlorooctane 102 % 66.9-136

Surrogate: 1-Chlorooctadecane 108 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 03/25/2022  
 Reported: 03/29/2022  
 Project Name: MIMOSA 24 FED COM  
 Project Number: 700794.370.01  
 Project Location: EDDY CO NM

Sampling Date: 03/24/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: S - 3 0-6" (H221177-03)**

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/28/2022	ND	1.79	89.3	2.00	2.77		
Toluene*	<0.050	0.050	03/28/2022	ND	2.00	100	2.00	3.08		
Ethylbenzene*	<0.050	0.050	03/28/2022	ND	2.11	106	2.00	2.54		
Total Xylenes*	<0.150	0.150	03/28/2022	ND	6.57	109	6.00	2.55		
Total BTEx	<0.300	0.300	03/28/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/28/2022	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	03/28/2022	ND	196	97.9	200	1.33	
DRO >C10-C28*	<10.0	10.0	03/28/2022	ND	225	113	200	3.99	
EXT DRO >C28-C36	<10.0	10.0	03/28/2022	ND					

Surrogate: 1-Chlorooctane 85.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 83.2 % 59.5-142

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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  
 REBECCA PONS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received: 03/25/2022  
 Reported: 03/29/2022  
 Project Name: MIMOSA 24 FED COM  
 Project Number: 700794.370.01  
 Project Location: EDDY CO NM

Sampling Date: 03/24/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: S - 4 0-6" (H221177-04)**

BTEx 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2022	ND	1.79	89.3	2.00	2.77	
Toluene*	<0.050	0.050	03/28/2022	ND	2.00	100	2.00	3.08	
Ethylbenzene*	<0.050	0.050	03/28/2022	ND	2.11	106	2.00	2.54	
Total Xylenes*	<0.150	0.150	03/28/2022	ND	6.57	109	6.00	2.55	
Total BTEX	<0.300	0.300	03/28/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	03/28/2022	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	03/28/2022	ND	196	97.9	200	1.33	
DRO >C10-C28*	<10.0	10.0	03/28/2022	ND	225	113	200	3.99	
EXT DRO >C28-C36	<10.0	10.0	03/28/2022	ND					

Surrogate: 1-Chlorooctane 83.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 81.2 % 59.5-142

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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  
 REBECCA PONS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received: 03/25/2022  
 Reported: 03/29/2022  
 Project Name: MIMOSA 24 FED COM  
 Project Number: 700794.370.01  
 Project Location: EDDY CO NM

Sampling Date: 03/24/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: S - 5 0-1" (H221177-05)**

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/28/2022	ND	1.79	89.3	2.00	2.77		
Toluene*	<0.050	0.050	03/28/2022	ND	2.00	100	2.00	3.08		
Ethylbenzene*	<0.050	0.050	03/28/2022	ND	2.11	106	2.00	2.54		
Total Xylenes*	<0.150	0.150	03/28/2022	ND	6.57	109	6.00	2.55		
Total BTEx	<0.300	0.300	03/28/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	880	16.0	03/28/2022	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	03/28/2022	ND	196	97.9	200	1.33	
DRO >C10-C28*	<10.0	10.0	03/28/2022	ND	225	113	200	3.99	
EXT DRO >C28-C36	<10.0	10.0	03/28/2022	ND					

Surrogate: 1-Chlorooctane 86.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 83.9 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



---

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---

### Notes and Definitions

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

---

Cardinal Laboratories

\*=Accredited Analyte

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

---

Celey D. Keene, Lab Director/Quality Manager





## Environment Testing America

### ANALYTICAL REPORT

Eurofins Midland  
1211 W. Florida Ave  
Midland, TX 79701  
Tel: (432)704-5440

Laboratory Job ID: 880-15020-1

Laboratory Sample Delivery Group: Eddy Co. NM  
Client Project/Site: Mimosa 24 Fed

**For:**

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

Attn: Kayla Taylor

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:  
5/25/2022 11:55:35 AM

Jessica Kramer, Project Manager  
(432)704-5440

[Jessica.Kramer@et.eurofinsus.com](mailto:Jessica.Kramer@et.eurofinsus.com)

#### LINKS

Review your project  
results through



Have a Question?



Visit us at:

[www.eurofinsus.com/Env](http://www.eurofinsus.com/Env)

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



Client: Talon/LPE  
Project/Site: Mimosa 24 Fed

Laboratory Job ID: 880-15020-1  
SDG: Eddy Co. NM

# Table of Contents

Cover Page . . . . .	1
Table of Contents . . . . .	2
Definitions/Glossary . . . . .	3
Case Narrative . . . . .	4
Client Sample Results . . . . .	5
Surrogate Summary . . . . .	9
QC Sample Results . . . . .	10
QC Association Summary . . . . .	14
Lab Chronicle . . . . .	16
Certification Summary . . . . .	18
Method Summary . . . . .	19
Sample Summary . . . . .	20
Chain of Custody . . . . .	21
Receipt Checklists . . . . .	22

1

2

3

4

5

6

7

8

9

10

11

12

13

14

## Definitions/Glossary

Client: Talon/LPE  
Project/Site: Mimosa 24 Fed

Job ID: 880-15020-1  
SDG: Eddy Co. NM

## Qualifiers

## GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

## GC Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
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, high biased.
U	Indicates the analyte was analyzed for but not detected.

## HPLC/IC

Qualifier	Qualifier Description
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.
α	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)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count



## Case Narrative

Client: Talon/LPE  
Project/Site: Mimosa 24 Fed

Job ID: 880-15020-1  
SDG: Eddy Co. NM

**Job ID: 880-15020-1****Laboratory: Eurofins Midland****Narrative****Job Narrative  
880-15020-1****Receipt**

The samples were received on 5/20/2022 2:54 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 1.2°C

**GC VOA**

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 method blank for preparation batch 880-25983 and analytical batch 880-25940 contained Over C10-C28 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 laboratory control sample (LCS) associated with preparation batch 880-25983 and analytical batch 880-25940 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: WSW-1 (880-15020-3) and S-5 A 4' (880-15020-5). Evidence of matrix interferences is not obvious.

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.

## Client Sample Results

Client: Talon/LPE  
Project/Site: Mimosa 24 Fed

Job ID: 880-15020-1  
SDG: Eddy Co. NM

Client Sample ID: NSW-1

Lab Sample ID: 880-15020-1

Date Collected: 05/19/22 11:00

Matrix: Solid

Date Received: 05/20/22 14:54

Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000382	U	0.00198	0.000382	mg/Kg		05/21/22 14:33	05/21/22 18:53	1
Toluene	<0.000452	U	0.00198	0.000452	mg/Kg		05/21/22 14:33	05/21/22 18:53	1
Ethylbenzene	<0.000561	U	0.00198	0.000561	mg/Kg		05/21/22 14:33	05/21/22 18:53	1
m-Xylene & p-Xylene	<0.00100	U	0.00397	0.00100	mg/Kg		05/21/22 14:33	05/21/22 18:53	1
o-Xylene	<0.000341	U	0.00198	0.000341	mg/Kg		05/21/22 14:33	05/21/22 18:53	1
Xylenes, Total	<0.00100	U	0.00397	0.00100	mg/Kg		05/21/22 14:33	05/21/22 18:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	05/21/22 14:33	05/21/22 18:53	1
1,4-Difluorobenzene (Surr)	102		70 - 130	05/21/22 14:33	05/21/22 18:53	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00397	0.00100	mg/Kg			05/23/22 11:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	24.3	J	49.9	15.0	mg/Kg			05/23/22 09:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<15.0	U *	49.9	15.0	mg/Kg		05/20/22 16:00	05/21/22 04:00	1
Over C10-C28	24.3	J B	49.9	15.0	mg/Kg		05/20/22 16:00	05/21/22 04:00	1
Over C28-C36	<15.0	U	49.9	15.0	mg/Kg		05/20/22 16:00	05/21/22 04:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130	05/20/22 16:00	05/21/22 04:00	1
o-Terphenyl	124		70 - 130	05/20/22 16:00	05/21/22 04:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	46.0		4.98	0.855	mg/Kg			05/24/22 17:15	1

Client Sample ID: ESW-1

Lab Sample ID: 880-15020-2

Date Collected: 05/19/22 13:50

Matrix: Solid

Date Received: 05/20/22 14:54

Sample Depth: 4'

## Method: 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		05/21/22 14:33	05/21/22 19:13	1
Toluene	<0.000453	U	0.00199	0.000453	mg/Kg		05/21/22 14:33	05/21/22 19:13	1
Ethylbenzene	<0.000562	U	0.00199	0.000562	mg/Kg		05/21/22 14:33	05/21/22 19:13	1
m-Xylene & p-Xylene	<0.00100	U	0.00398	0.00100	mg/Kg		05/21/22 14:33	05/21/22 19:13	1
o-Xylene	<0.000342	U	0.00199	0.000342	mg/Kg		05/21/22 14:33	05/21/22 19:13	1
Xylenes, Total	<0.00100	U	0.00398	0.00100	mg/Kg		05/21/22 14:33	05/21/22 19:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	05/21/22 14:33	05/21/22 19:13	1
1,4-Difluorobenzene (Surr)	91		70 - 130	05/21/22 14:33	05/21/22 19:13	1

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## Client Sample Results

Client: Talon/LPE  
Project/Site: Mimosa 24 Fed

Job ID: 880-15020-1  
SDG: Eddy Co. NM

Client Sample ID: ESW-1

Lab Sample ID: 880-15020-2

Date Collected: 05/19/22 13:50

Matrix: Solid

Date Received: 05/20/22 14:54

Sample Depth: 4'

## Method: 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			05/23/22 11:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	26.4	J	50.0	15.0	mg/Kg			05/23/22 09:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<15.0	U *	50.0	15.0	mg/Kg		05/20/22 16:00	05/21/22 04:21	1
Over C10-C28	26.4	J B	50.0	15.0	mg/Kg		05/20/22 16:00	05/21/22 04:21	1
Over C28-C36	<15.0	U	50.0	15.0	mg/Kg		05/20/22 16:00	05/21/22 04:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130				05/20/22 16:00	05/21/22 04:21	1
o-Terphenyl	126		70 - 130				05/20/22 16:00	05/21/22 04:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	175		4.96	0.851	mg/Kg			05/24/22 17:24	1

Client Sample ID: WSW-1

Lab Sample ID: 880-15020-3

Date Collected: 05/19/22 14:05

Matrix: Solid

Date Received: 05/20/22 14:54

Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		05/21/22 14:33	05/21/22 19:34	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		05/21/22 14:33	05/21/22 19:34	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		05/21/22 14:33	05/21/22 19:34	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		05/21/22 14:33	05/21/22 19:34	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		05/21/22 14:33	05/21/22 19:34	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		05/21/22 14:33	05/21/22 19:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130				05/21/22 14:33	05/21/22 19:34	1
1,4-Difluorobenzene (Surr)	95		70 - 130				05/21/22 14:33	05/21/22 19:34	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00400	0.00101	mg/Kg			05/23/22 11:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	49.9	J	50.0	15.0	mg/Kg			05/23/22 09:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	21.2	J *	50.0	15.0	mg/Kg		05/20/22 16:00	05/21/22 04:43	1
Over C10-C28	28.7	J B	50.0	15.0	mg/Kg		05/20/22 16:00	05/21/22 04:43	1
Over C28-C36	<15.0	U	50.0	15.0	mg/Kg		05/20/22 16:00	05/21/22 04:43	1

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## Client Sample Results

Client: Talon/LPE  
Project/Site: Mimosa 24 Fed

Job ID: 880-15020-1  
SDG: Eddy Co. NM

## Client Sample ID: WSW-1

Lab Sample ID: 880-15020-3

Date Collected: 05/19/22 14:05

Matrix: Solid

Date Received: 05/20/22 14:54

Sample Depth: 4'

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	129		70 - 130	05/20/22 16:00	05/21/22 04:43	1
o-Terphenyl	137	S1+	70 - 130	05/20/22 16:00	05/21/22 04:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1000		5.01	0.860	mg/Kg			05/24/22 17:33	1

## Client Sample ID: SSW-1

Lab Sample ID: 880-15020-4

Date Collected: 05/19/22 13:55

Matrix: Solid

Date Received: 05/20/22 14:54

Sample Depth: 4'

## Method: 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		05/21/22 14:33	05/21/22 19:55	1
Toluene	<0.000459	U	0.00201	0.000459	mg/Kg		05/21/22 14:33	05/21/22 19:55	1
Ethylbenzene	<0.000568	U	0.00201	0.000568	mg/Kg		05/21/22 14:33	05/21/22 19:55	1
m-Xylene & p-Xylene	<0.00102	U	0.00402	0.00102	mg/Kg		05/21/22 14:33	05/21/22 19:55	1
o-Xylene	<0.000346	U	0.00201	0.000346	mg/Kg		05/21/22 14:33	05/21/22 19:55	1
Xylenes, Total	<0.00102	U	0.00402	0.00102	mg/Kg		05/21/22 14:33	05/21/22 19:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	05/21/22 14:33	05/21/22 19:55	1
1,4-Difluorobenzene (Surr)	87		70 - 130	05/21/22 14:33	05/21/22 19:55	1

## Method: 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			05/23/22 11:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	48.0	J	49.9	15.0	mg/Kg			05/23/22 09:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	26.3	J *	49.9	15.0	mg/Kg		05/20/22 16:00	05/21/22 05:04	1
Over C10-C28	21.7	J B	49.9	15.0	mg/Kg		05/20/22 16:00	05/21/22 05:04	1
Over C28-C36	<15.0	U	49.9	15.0	mg/Kg		05/20/22 16:00	05/21/22 05:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 130	05/20/22 16:00	05/21/22 05:04	1
o-Terphenyl	125		70 - 130	05/20/22 16:00	05/21/22 05:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1080		4.98	0.855	mg/Kg			05/24/22 17:42	1

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## Client Sample Results

Client: Talon/LPE  
Project/Site: Mimosa 24 Fed

Job ID: 880-15020-1  
SDG: Eddy Co. NM

Client Sample ID: S-5 A 4'

Lab Sample ID: 880-15020-5

Date Collected: 05/19/22 13:45

Matrix: Solid

Date Received: 05/20/22 14:54

Sample Depth: 4'

## Method: 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		05/21/22 14:33	05/21/22 20:15	1
Toluene	<0.000458	U	0.00201	0.000458	mg/Kg		05/21/22 14:33	05/21/22 20:15	1
Ethylbenzene	<0.000567	U	0.00201	0.000567	mg/Kg		05/21/22 14:33	05/21/22 20:15	1
m-Xylene & p-Xylene	<0.00101	U	0.00402	0.00101	mg/Kg		05/21/22 14:33	05/21/22 20:15	1
o-Xylene	<0.000345	U	0.00201	0.000345	mg/Kg		05/21/22 14:33	05/21/22 20:15	1
Xylenes, Total	<0.00101	U	0.00402	0.00101	mg/Kg		05/21/22 14:33	05/21/22 20:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	05/21/22 14:33	05/21/22 20:15	1
1,4-Difluorobenzene (Surr)	91		70 - 130	05/21/22 14:33	05/21/22 20:15	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00402	0.00101	mg/Kg			05/23/22 11:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	42.0	J	49.9	15.0	mg/Kg			05/23/22 09:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	17.4	J *	49.9	15.0	mg/Kg		05/20/22 16:00	05/21/22 05:24	1
Over C10-C28	24.6	J B	49.9	15.0	mg/Kg		05/20/22 16:00	05/21/22 05:24	1
Over C28-C36	<15.0	U	49.9	15.0	mg/Kg		05/20/22 16:00	05/21/22 05:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	125		70 - 130	05/20/22 16:00	05/21/22 05:24	1
o-Terphenyl	137	S1+	70 - 130	05/20/22 16:00	05/21/22 05:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	114		4.95	0.850	mg/Kg			05/24/22 17:52	1

Eurofins Midland



## Surrogate Summary

Client: Talon/LPE  
Project/Site: Mimosa 24 Fed

Job ID: 880-15020-1  
SDG: Eddy Co. 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)
880-15020-1	NSW-1	107	102
880-15020-2	ESW-1	122	91
880-15020-3	WSW-1	97	95
880-15020-4	SSW-1	118	87
880-15020-5	S-5 A 4'	120	91
890-2322-A-1-E MS	Matrix Spike	110	98
890-2322-A-1-F MSD	Matrix Spike Duplicate	110	99
LCS 880-26015/1-A	Lab Control Sample	104	99
LCSD 880-26015/2-A	Lab Control Sample Dup	117	102
MB 880-26015/5-A	Method Blank	104	95
<b>Surrogate Legend</b>			
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)
880-15020-1	NSW-1	114	124
880-15020-2	ESW-1	116	126
880-15020-3	WSW-1	129	137 S1+
880-15020-4	SSW-1	117	125
880-15020-5	S-5 A 4'	125	137 S1+
890-2320-A-1-B MS	Matrix Spike	115	106
890-2320-A-1-C MSD	Matrix Spike Duplicate	116	107
LCS 880-25983/2-A	Lab Control Sample	89	84
LCSD 880-25983/3-A	Lab Control Sample Dup	91	85
MB 880-25983/1-A	Method Blank	104	115
<b>Surrogate Legend</b>			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

## QC Sample Results

Client: Talon/LPE  
Project/Site: Mimosa 24 Fed

Job ID: 880-15020-1  
SDG: Eddy Co. NM

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

Lab Sample ID: MB 880-26015/5-A

Matrix: Solid

Analysis Batch: 26016

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 26015

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		05/21/22 14:33	05/21/22 17:29	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		05/21/22 14:33	05/21/22 17:29	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		05/21/22 14:33	05/21/22 17:29	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		05/21/22 14:33	05/21/22 17:29	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		05/21/22 14:33	05/21/22 17:29	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		05/21/22 14:33	05/21/22 17:29	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	05/21/22 14:33	05/21/22 17:29	1
1,4-Difluorobenzene (Surr)	95		70 - 130	05/21/22 14:33	05/21/22 17:29	1

Lab Sample ID: LCS 880-26015/1-A

Matrix: Solid

Analysis Batch: 26016

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 26015

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09750		mg/Kg		97	70 - 130
Toluene	0.100	0.1005		mg/Kg		101	70 - 130
Ethylbenzene	0.100	0.09087		mg/Kg		91	70 - 130
m-Xylene & p-Xylene	0.200	0.1914		mg/Kg		96	70 - 130
o-Xylene	0.100	0.09613		mg/Kg		96	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: LCSD 880-26015/2-A

Matrix: Solid

Analysis Batch: 26016

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 26015

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.1009		mg/Kg		101	70 - 130	3	35
Toluene	0.100	0.1080		mg/Kg		108	70 - 130	7	35
Ethylbenzene	0.100	0.1029		mg/Kg		103	70 - 130	12	35
m-Xylene & p-Xylene	0.200	0.2221		mg/Kg		111	70 - 130	15	35
o-Xylene	0.100	0.1117		mg/Kg		112	70 - 130	15	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	117		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: 890-2322-A-1-E MS

Matrix: Solid

Analysis Batch: 26016

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 26015

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.000629	J	0.101	0.08874		mg/Kg		88	70 - 130
Toluene	0.00608		0.101	0.09547		mg/Kg		89	70 - 130

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## QC Sample Results

Client: Talon/LPE  
Project/Site: Mimosa 24 Fed

Job ID: 880-15020-1  
SDG: Eddy Co. NM

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

Lab Sample ID: 890-2322-A-1-E MS

Matrix: Solid

Analysis Batch: 26016

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 26015

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.000571	U	0.101	0.08919		mg/Kg		89	70 - 130
m-Xylene & p-Xylene	0.00117	J	0.201	0.1907		mg/Kg		94	70 - 130
o-Xylene	0.000541	J	0.101	0.09732		mg/Kg		96	70 - 130
Surrogate	MS %Recovery	MS Qualifier	MS Limits						
4-Bromofluorobenzene (Surr)	110		70 - 130						
1,4-Difluorobenzene (Surr)	98		70 - 130						

Lab Sample ID: 890-2322-A-1-F MSD

Matrix: Solid

Analysis Batch: 26016

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 26015

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.000629	J	0.100	0.08709		mg/Kg		86	70 - 130	2	35
Toluene	0.00608		0.100	0.09498		mg/Kg		89	70 - 130	1	35
Ethylbenzene	<0.000571	U	0.100	0.08905		mg/Kg		89	70 - 130	0	35
m-Xylene & p-Xylene	0.00117	J	0.200	0.1905		mg/Kg		94	70 - 130	0	35
o-Xylene	0.000541	J	0.100	0.09699		mg/Kg		96	70 - 130	0	35
Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits								
4-Bromofluorobenzene (Surr)	110		70 - 130								
1,4-Difluorobenzene (Surr)	99		70 - 130								

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

Lab Sample ID: MB 880-25983/1-A

Matrix: Solid

Analysis Batch: 25940

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25983

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<15.0	U	50.0	15.0	mg/Kg		05/20/22 14:10	05/20/22 22:11	1
Over C10-C28	20.88	J	50.0	15.0	mg/Kg		05/20/22 14:10	05/20/22 22:11	1
Over C28-C36	<15.0	U	50.0	15.0	mg/Kg		05/20/22 14:10	05/20/22 22:11	1
Surrogate	MB %Recovery	MB Qualifier	MB Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130				05/20/22 14:10	05/20/22 22:11	1
o-Terphenyl	115		70 - 130				05/20/22 14:10	05/20/22 22:11	1

Lab Sample ID: LCS 880-25983/2-A

Matrix: Solid

Analysis Batch: 25940

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25983

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
C6-C10	1000	614.8	*-	mg/Kg		61	70 - 130
Over C10-C28	1000	822.1		mg/Kg		82	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	LCS Limits				
1-Chlorooctane	89		70 - 130				

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## QC Sample Results

Client: Talon/LPE  
Project/Site: Mimosa 24 Fed

Job ID: 880-15020-1  
SDG: Eddy Co. NM

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

Lab Sample ID: LCS 880-25983/2-A  
Matrix: Solid  
Analysis Batch: 25940

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 25983

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
<i>o</i> -Terphenyl	84		70 - 130

Lab Sample ID: LCSD 880-25983/3-A  
Matrix: Solid  
Analysis Batch: 25940

Client Sample ID: Lab Control Sample Dup  
Prep Type: Total/NA  
Prep Batch: 25983

			Spike	LCSD	LCSD				%Rec		RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
C6-C10			1000	709.2		mg/Kg		71	70 - 130	14	20	
Over C10-C28			1000	963.6		mg/Kg		96	70 - 130	16	20	
	LCSD	LCSD										
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane	91		70 - 130									
<i>o</i> -Terphenyl	85		70 - 130									

Lab Sample ID: 890-2320-A-1-B MS  
Matrix: Solid  
Analysis Batch: 25940

Client Sample ID: Matrix Spike  
Prep Type: Total/NA  
Prep Batch: 25983

	Sample	Sample	Spike	MS	MS				%Rec			
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
C6-C10	16.7	J *	1000	988.9		mg/Kg		97	70 - 130			
Over C10-C28	32.8	J B	1000	1124		mg/Kg		109	70 - 130			
	MS	MS										
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane	115		70 - 130									
<i>o</i> -Terphenyl	106		70 - 130									

Lab Sample ID: 890-2320-A-1-C MSD  
Matrix: Solid  
Analysis Batch: 25940

Client Sample ID: Matrix Spike Duplicate  
Prep Type: Total/NA  
Prep Batch: 25983

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
C6-C10	16.7	J *	999	824.8		mg/Kg		81	70 - 130	18	20	
Over C10-C28	32.8	J B	999	1141		mg/Kg		111	70 - 130	2	20	
	MSD	MSD										
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane	116		70 - 130									
<i>o</i> -Terphenyl	107		70 - 130									

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-25907/1-A  
Matrix: Solid  
Analysis Batch: 26071

Client Sample ID: Method Blank  
Prep Type: Soluble

	MB	MB										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac			
Chloride	<0.858	U	5.00	0.858	mg/Kg			05/24/22 13:24	1			

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## QC Sample Results

Client: Talon/LPE  
Project/Site: Mimosa 24 Fed

Job ID: 880-15020-1  
SDG: Eddy Co. NM

## Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-25907/2-A

Matrix: Solid

Analysis Batch: 26071

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	256.5		mg/Kg		103	90 - 110

Lab Sample ID: LCSD 880-25907/3-A

Matrix: Solid

Analysis Batch: 26071

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	250.1		mg/Kg		100	90 - 110	3	20

Lab Sample ID: 890-2319-A-1-B MS

Matrix: Solid

Analysis Batch: 26071

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	128		250	384.6		mg/Kg		103	90 - 110

Lab Sample ID: 890-2319-A-1-C MSD

Matrix: Solid

Analysis Batch: 26071

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	128		250	391.2		mg/Kg		105	90 - 110	2	20

## QC Association Summary

Client: Talon/LPE  
Project/Site: Mimosa 24 Fed

Job ID: 880-15020-1  
SDG: Eddy Co. NM

## GC VOA

## Prep Batch: 26015

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15020-1	NSW-1	Total/NA	Solid	5035	
880-15020-2	ESW-1	Total/NA	Solid	5035	
880-15020-3	WSW-1	Total/NA	Solid	5035	
880-15020-4	SSW-1	Total/NA	Solid	5035	
880-15020-5	S-5 A 4'	Total/NA	Solid	5035	
MB 880-26015/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-26015/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-26015/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2322-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
890-2322-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

## Analysis Batch: 26016

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15020-1	NSW-1	Total/NA	Solid	8021B	26015
880-15020-2	ESW-1	Total/NA	Solid	8021B	26015
880-15020-3	WSW-1	Total/NA	Solid	8021B	26015
880-15020-4	SSW-1	Total/NA	Solid	8021B	26015
880-15020-5	S-5 A 4'	Total/NA	Solid	8021B	26015
MB 880-26015/5-A	Method Blank	Total/NA	Solid	8021B	26015
LCS 880-26015/1-A	Lab Control Sample	Total/NA	Solid	8021B	26015
LCSD 880-26015/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	26015
890-2322-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	26015
890-2322-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	26015

## Analysis Batch: 26089

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15020-1	NSW-1	Total/NA	Solid	Total BTEX	
880-15020-2	ESW-1	Total/NA	Solid	Total BTEX	
880-15020-3	WSW-1	Total/NA	Solid	Total BTEX	
880-15020-4	SSW-1	Total/NA	Solid	Total BTEX	
880-15020-5	S-5 A 4'	Total/NA	Solid	Total BTEX	

## GC Semi VOA

## Analysis Batch: 25940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15020-1	NSW-1	Total/NA	Solid	8015B NM	25983
880-15020-2	ESW-1	Total/NA	Solid	8015B NM	25983
880-15020-3	WSW-1	Total/NA	Solid	8015B NM	25983
880-15020-4	SSW-1	Total/NA	Solid	8015B NM	25983
880-15020-5	S-5 A 4'	Total/NA	Solid	8015B NM	25983
MB 880-25983/1-A	Method Blank	Total/NA	Solid	8015B NM	25983
LCS 880-25983/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	25983
LCSD 880-25983/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	25983
890-2320-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	25983
890-2320-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	25983

## Prep Batch: 25983

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15020-1	NSW-1	Total/NA	Solid	8015NM Prep	
880-15020-2	ESW-1	Total/NA	Solid	8015NM Prep	

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## QC Association Summary

Client: Talon/LPE  
Project/Site: Mimosa 24 Fed

Job ID: 880-15020-1  
SDG: Eddy Co. NM

## GC Semi VOA (Continued)

## Prep Batch: 25983 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15020-3	WSW-1	Total/NA	Solid	8015NM Prep	
880-15020-4	SSW-1	Total/NA	Solid	8015NM Prep	
880-15020-5	S-5 A 4'	Total/NA	Solid	8015NM Prep	
MB 880-25983/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-25983/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-25983/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2320-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-2320-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

## Analysis Batch: 26040

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15020-1	NSW-1	Total/NA	Solid	8015 NM	
880-15020-2	ESW-1	Total/NA	Solid	8015 NM	
880-15020-3	WSW-1	Total/NA	Solid	8015 NM	
880-15020-4	SSW-1	Total/NA	Solid	8015 NM	
880-15020-5	S-5 A 4'	Total/NA	Solid	8015 NM	

## HPLC/IC

## Leach Batch: 25907

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15020-1	NSW-1	Soluble	Solid	DI Leach	
880-15020-2	ESW-1	Soluble	Solid	DI Leach	
880-15020-3	WSW-1	Soluble	Solid	DI Leach	
880-15020-4	SSW-1	Soluble	Solid	DI Leach	
880-15020-5	S-5 A 4'	Soluble	Solid	DI Leach	
MB 880-25907/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-25907/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-25907/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2319-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-2319-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

## Analysis Batch: 26071

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15020-1	NSW-1	Soluble	Solid	300.0	25907
880-15020-2	ESW-1	Soluble	Solid	300.0	25907
880-15020-3	WSW-1	Soluble	Solid	300.0	25907
880-15020-4	SSW-1	Soluble	Solid	300.0	25907
880-15020-5	S-5 A 4'	Soluble	Solid	300.0	25907
MB 880-25907/1-A	Method Blank	Soluble	Solid	300.0	25907
LCS 880-25907/2-A	Lab Control Sample	Soluble	Solid	300.0	25907
LCSD 880-25907/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	25907
890-2319-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	25907
890-2319-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	25907

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## Lab Chronicle

Client: Talon/LPE  
Project/Site: Mimosa 24 Fed

Job ID: 880-15020-1  
SDG: Eddy Co. NM

Client Sample ID: NSW-1

Lab Sample ID: 880-15020-1

Date Collected: 05/19/22 11:00

Matrix: Solid

Date Received: 05/20/22 14:54

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	26015	05/21/22 14:33	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26016	05/21/22 18:53	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26089	05/23/22 11:13	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26040	05/23/22 09:14	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	25983	05/20/22 16:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25940	05/21/22 04:00	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	25907	05/20/22 16:00	CH	XEN MID
Soluble	Analysis	300.0		1			26071	05/24/22 17:15	CH	XEN MID

Client Sample ID: ESW-1

Lab Sample ID: 880-15020-2

Date Collected: 05/19/22 13:50

Matrix: Solid

Date Received: 05/20/22 14:54

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	26015	05/21/22 14:33	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26016	05/21/22 19:13	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26089	05/23/22 11:13	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26040	05/23/22 09:14	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	25983	05/20/22 16:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25940	05/21/22 04:21	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	25907	05/20/22 16:00	CH	XEN MID
Soluble	Analysis	300.0		1			26071	05/24/22 17:24	CH	XEN MID

Client Sample ID: WSW-1

Lab Sample ID: 880-15020-3

Date Collected: 05/19/22 14:05

Matrix: Solid

Date Received: 05/20/22 14:54

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	26015	05/21/22 14:33	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26016	05/21/22 19:34	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26089	05/23/22 11:13	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26040	05/23/22 09:14	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	25983	05/20/22 16:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25940	05/21/22 04:43	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	25907	05/20/22 16:00	CH	XEN MID
Soluble	Analysis	300.0		1			26071	05/24/22 17:33	CH	XEN MID

Client Sample ID: SSW-1

Lab Sample ID: 880-15020-4

Date Collected: 05/19/22 13:55

Matrix: Solid

Date Received: 05/20/22 14:54

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	26015	05/21/22 14:33	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26016	05/21/22 19:55	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26089	05/23/22 11:13	SM	XEN MID

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## Lab Chronicle

Client: Talon/LPE  
Project/Site: Mimosa 24 Fed

Job ID: 880-15020-1  
SDG: Eddy Co. NM

Client Sample ID: SSW-1

Lab Sample ID: 880-15020-4

Date Collected: 05/19/22 13:55

Matrix: Solid

Date Received: 05/20/22 14:54

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			26040	05/23/22 09:14	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	25983	05/20/22 16:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25940	05/21/22 05:04	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	25907	05/20/22 16:00	CH	XEN MID
Soluble	Analysis	300.0		1			26071	05/24/22 17:42	CH	XEN MID

Client Sample ID: S-5 A 4'

Lab Sample ID: 880-15020-5

Date Collected: 05/19/22 13:45

Matrix: Solid

Date Received: 05/20/22 14:54

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	26015	05/21/22 14:33	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26016	05/21/22 20:15	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26089	05/23/22 11:13	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26040	05/23/22 09:14	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	25983	05/20/22 16:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25940	05/21/22 05:24	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	25907	05/20/22 16:00	CH	XEN MID
Soluble	Analysis	300.0		1			26071	05/24/22 17:52	CH	XEN MID

## Laboratory References:

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

Accreditation/Certification Summary

Client: Talon/LPE  
Project/Site: Mimosa 24 Fed

Job ID: 880-15020-1  
SDG: Eddy Co. 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	T104704400-21-22	06-30-22

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

## Method Summary

Client: Talon/LPE  
Project/Site: Mimosa 24 Fed

Job ID: 880-15020-1  
SDG: Eddy Co. NM

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

### Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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:

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

Sample Summary

Client: Talon/LPE  
Project/Site: Mimosa 24 Fed

Job ID: 880-15020-1  
SDG: Eddy Co. NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-15020-1	NSW-1	Solid	05/19/22 11:00	05/20/22 14:54	4'
880-15020-2	ESW-1	Solid	05/19/22 13:50	05/20/22 14:54	4'
880-15020-3	WSW-1	Solid	05/19/22 14:05	05/20/22 14:54	4'
880-15020-4	SSW-1	Solid	05/19/22 13:55	05/20/22 14:54	4'
880-15020-5	S-5 A 4'	Solid	05/19/22 13:45	05/20/22 14:54	4'

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- 11
- 12
- 13
- 14





## Environment Testing

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



880-15020 Chain of Custody

Page \_\_\_\_\_ of \_\_\_\_\_  
www.xenco.com

Project Manager	K. Taylor		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	432-210-5443	Email		

Work Order Comments				
Program:	UST/PST <input type="checkbox"/>	PPP <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]

Total 200.7 / 6010	200.8 / 6020:	8RCRA 13PPM	Texas 11	Al 5b	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		TCPL / SPLP 6010	8RCRA	5b	As	Ba	Be	B	Cd	Cr	Co	Cu	Pb	Mn	Mo	Ni	Se	Ag	Ti	U											
<p>Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xeno, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xeno 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 Xeno. A minimum charge of \$85.00 will be applied to each sample submitted to Eurofins Xeno, but not analyzed. These terms will be enforced unless previously negotiated.</p>																															
<p>Signature: _____</p>																															

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
1. <i>[Signature]</i>	<i>[Signature]</i>	5/20/22	2.		
3.		14:54	4.		
5.			6.		

## Login Sample Receipt Checklist

Client: Talon/LPE

Job Number: 880-15020-1

SDG Number: Eddy Co. NM

Login Number: 15020

List Number: 1

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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	



## Environment Testing America

### ANALYTICAL REPORT

Eurofins Midland  
1211 W. Florida Ave  
Midland, TX 79701  
Tel: (432)704-5440

Laboratory Job ID: 880-15889-1

Laboratory Sample Delivery Group: Lea Co, NM  
Client Project/Site: Devon Mimosa 24

**For:**

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

Attn: Kayla Taylor

Authorized for release by:

6/22/2022 3:51:49 PM

Jessica Kramer, Project Manager  
(432)704-5440

[Jessica.Kramer@et.eurofinsus.com](mailto:Jessica.Kramer@et.eurofinsus.com)

#### LINKS

Review your project  
results through



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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Talon/LPE  
Project/Site: Devon Mimosa 24

Laboratory Job ID: 880-15889-1  
SDG: Lea Co, NM

# Table of Contents

Cover Page . . . . .	1
Table of Contents . . . . .	2
Definitions/Glossary . . . . .	3
Case Narrative . . . . .	4
Client Sample Results . . . . .	5
Surrogate Summary . . . . .	7
QC Sample Results . . . . .	8
QC Association Summary . . . . .	12
Lab Chronicle . . . . .	14
Certification Summary . . . . .	15
Method Summary . . . . .	16
Sample Summary . . . . .	17
Chain of Custody . . . . .	18
Receipt Checklists . . . . .	19

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



## Definitions/Glossary

Client: Talon/LPE  
Project/Site: Devon Mimosa 24

Job ID: 880-15889-1  
SDG: Lea Co, NM

## Qualifiers

## GC VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

## GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD 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.
U	Indicates the analyte was analyzed for but not detected.

## HPLC/IC

Qualifier	Qualifier Description
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.
α	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)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

## Case Narrative

Client: Talon/LPE  
Project/Site: Devon Mimosa 24

Job ID: 880-15889-1  
SDG: Lea Co, NM

**Job ID: 880-15889-1**

**Laboratory: Eurofins Midland**

### Narrative

#### Job Narrative 880-15889-1

#### Receipt

The samples were received on 6/14/2022 4:30 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 4.9°C

#### GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: S-6 (880-15889-1). 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 RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-27556 and analytical batch 880-27563 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.

## Client Sample Results

Client: Talon/LPE  
Project/Site: Devon Mimosa 24

Job ID: 880-15889-1  
SDG: Lea Co, NM

Client Sample ID: S-6

Lab Sample ID: 880-15889-1

Date Collected: 06/13/22 13:00

Matrix: Solid

Date Received: 06/14/22 16:30

Sample Depth: 0-1'

## Method: 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		06/17/22 09:57	06/18/22 19:26	1
Toluene	<0.000458	U	0.00201	0.000458	mg/Kg		06/17/22 09:57	06/18/22 19:26	1
Ethylbenzene	<0.000567	U	0.00201	0.000567	mg/Kg		06/17/22 09:57	06/18/22 19:26	1
m-Xylene & p-Xylene	<0.00101	U	0.00402	0.00101	mg/Kg		06/17/22 09:57	06/18/22 19:26	1
o-Xylene	<0.000345	U	0.00201	0.000345	mg/Kg		06/17/22 09:57	06/18/22 19:26	1
Xylenes, Total	<0.00101	U	0.00402	0.00101	mg/Kg		06/17/22 09:57	06/18/22 19:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130	06/17/22 09:57	06/18/22 19:26	1
1,4-Difluorobenzene (Surr)	103		70 - 130	06/17/22 09:57	06/18/22 19:26	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00402	0.00101	mg/Kg			06/20/22 14:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	36.9	J	49.9	15.0	mg/Kg			06/16/22 09:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	15.2	J *1	49.9	15.0	mg/Kg		06/15/22 08:52	06/15/22 13:19	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.9	15.0	mg/Kg		06/15/22 08:52	06/15/22 13:19	1
Oil Range Organics (Over C28-C36)	21.7	J	49.9	15.0	mg/Kg		06/15/22 08:52	06/15/22 13:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				06/15/22 08:52	06/15/22 13:19	1
o-Terphenyl	110		70 - 130				06/15/22 08:52	06/15/22 13:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	106		4.98	0.855	mg/Kg			06/21/22 19:25	1

Client Sample ID: S-7

Lab Sample ID: 880-15889-2

Date Collected: 06/13/22 13:02

Matrix: Solid

Date Received: 06/14/22 16:30

Sample Depth: 0-1'

## Method: 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		06/17/22 09:57	06/18/22 19:53	1
Toluene	<0.000457	U	0.00200	0.000457	mg/Kg		06/17/22 09:57	06/18/22 19:53	1
Ethylbenzene	<0.000566	U	0.00200	0.000566	mg/Kg		06/17/22 09:57	06/18/22 19:53	1
m-Xylene & p-Xylene	<0.00101	U	0.00401	0.00101	mg/Kg		06/17/22 09:57	06/18/22 19:53	1
o-Xylene	<0.000345	U	0.00200	0.000345	mg/Kg		06/17/22 09:57	06/18/22 19:53	1
Xylenes, Total	<0.00101	U	0.00401	0.00101	mg/Kg		06/17/22 09:57	06/18/22 19:53	1

Eurofins Midland

## Client Sample Results

Client: Talon/LPE  
Project/Site: Devon Mimosa 24

Job ID: 880-15889-1  
SDG: Lea Co, NM

Client Sample ID: S-7

Lab Sample ID: 880-15889-2

Date Collected: 06/13/22 13:02

Matrix: Solid

Date Received: 06/14/22 16:30

Sample Depth: 0-1'

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				06/17/22 09:57	06/18/22 19:53	1
1,4-Difluorobenzene (Surr)	93		70 - 130				06/17/22 09:57	06/18/22 19:53	1
<b>Method: Total BTEX - Total BTEX Calculation</b>									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00401	0.00101	mg/Kg	-		06/20/22 14:56	1
<b>Method: 8015 NM - Diesel Range Organics (DRO) (GC)</b>									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	38.8	J	50.0	15.0	mg/Kg	-		06/16/22 09:49	1
<b>Method: 8015B NM - Diesel Range Organics (DRO) (GC)</b>									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	15.3	J *1	50.0	15.0	mg/Kg	-	06/15/22 08:52	06/15/22 13:40	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg	-	06/15/22 08:52	06/15/22 13:40	1
Oil Range Organics (Over C28-C36)	23.5	J	50.0	15.0	mg/Kg	-	06/15/22 08:52	06/15/22 13:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				06/15/22 08:52	06/15/22 13:40	1
o-Terphenyl	110		70 - 130				06/15/22 08:52	06/15/22 13:40	1
<b>Method: 300.0 - Anions, Ion Chromatography - Soluble</b>									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	106		4.95	0.850	mg/Kg	-		06/21/22 19:34	1

## Surrogate Summary

Client: Talon/LPE  
Project/Site: Devon Mimosa 24

Job ID: 880-15889-1  
SDG: Lea Co, 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)
880-15834-A-1-D MS	Matrix Spike	102	101
880-15834-A-1-E MSD	Matrix Spike Duplicate	111	107
880-15889-1	S-6	131 S1+	103
880-15889-2	S-7	104	93
LCS 880-27794/1-A	Lab Control Sample	116	105
LCSD 880-27794/2-A	Lab Control Sample Dup	108	98
MB 880-27794/5-A	Method Blank	90	90
MB 880-27819/5-A	Method Blank	86	89
<b>Surrogate Legend</b>			
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)
880-15888-A-1-B MS	Matrix Spike	88	91
880-15888-A-1-C MSD	Matrix Spike Duplicate	89	92
880-15889-1	S-6	95	110
880-15889-2	S-7	94	110
LCS 880-27556/2-A	Lab Control Sample	103	113
LCSD 880-27556/3-A	Lab Control Sample Dup	93	106
MB 880-27556/1-A	Method Blank	99	114
<b>Surrogate Legend</b>			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			



## QC Sample Results

Client: Talon/LPE  
Project/Site: Devon Mimosa 24

Job ID: 880-15889-1  
SDG: Lea Co, NM

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

Lab Sample ID: MB 880-27794/5-A

Matrix: Solid

Analysis Batch: 27741

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 27794

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		06/17/22 09:57	06/18/22 15:03	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		06/17/22 09:57	06/18/22 15:03	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		06/17/22 09:57	06/18/22 15:03	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		06/17/22 09:57	06/18/22 15:03	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		06/17/22 09:57	06/18/22 15:03	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		06/17/22 09:57	06/18/22 15:03	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	06/17/22 09:57	06/18/22 15:03	1
1,4-Difluorobenzene (Surr)	90		70 - 130	06/17/22 09:57	06/18/22 15:03	1

Lab Sample ID: LCS 880-27794/1-A

Matrix: Solid

Analysis Batch: 27741

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 27794

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1045		mg/Kg		105	70 - 130
Toluene	0.100	0.09413		mg/Kg		94	70 - 130
Ethylbenzene	0.100	0.09899		mg/Kg		99	70 - 130
m-Xylene & p-Xylene	0.200	0.1945		mg/Kg		97	70 - 130
o-Xylene	0.100	0.09911		mg/Kg		99	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	116		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: LCSD 880-27794/2-A

Matrix: Solid

Analysis Batch: 27741

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 27794

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08561		mg/Kg		86	70 - 130	20	35
Toluene	0.100	0.08698		mg/Kg		87	70 - 130	8	35
Ethylbenzene	0.100	0.09292		mg/Kg		93	70 - 130	6	35
m-Xylene & p-Xylene	0.200	0.1847		mg/Kg		92	70 - 130	5	35
o-Xylene	0.100	0.09227		mg/Kg		92	70 - 130	7	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 880-15834-A-1-D MS

Matrix: Solid

Analysis Batch: 27741

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 27794

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.000386	U	0.0996	0.08785		mg/Kg		88	70 - 130
Toluene	<0.000457	U	0.0996	0.07880		mg/Kg		79	70 - 130

Eurofins Midland

## QC Sample Results

Client: Talon/LPE  
Project/Site: Devon Mimosa 24

Job ID: 880-15889-1  
SDG: Lea Co, NM

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

Lab Sample ID: 880-15834-A-1-D MS

Matrix: Solid

Analysis Batch: 27741

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 27794

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.000566	U	0.0996	0.08633		mg/Kg		87	70 - 130
m-Xylene & p-Xylene	<0.00101	U	0.199	0.1695		mg/Kg		85	70 - 130
o-Xylene	<0.000345	U	0.0996	0.08294		mg/Kg		83	70 - 130

Surrogate	MS %Recovery	MS Qualifier	MS Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 880-15834-A-1-E MSD

Matrix: Solid

Analysis Batch: 27741

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 27794

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.000386	U	0.0994	0.08979		mg/Kg		90	70 - 130	2	35
Toluene	<0.000457	U	0.0994	0.07876		mg/Kg		79	70 - 130	0	35
Ethylbenzene	<0.000566	U	0.0994	0.07983		mg/Kg		80	70 - 130	8	35
m-Xylene & p-Xylene	<0.00101	U	0.199	0.1594		mg/Kg		80	70 - 130	6	35
o-Xylene	<0.000345	U	0.0994	0.07957		mg/Kg		80	70 - 130	4	35

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: MB 880-27819/5-A

Matrix: Solid

Analysis Batch: 27741

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 27819

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0000770	U	0.000400	0.0000770	mg/Kg		06/17/22 13:00	06/18/22 01:15	1
Toluene	<0.0000912	U	0.000400	0.0000912	mg/Kg		06/17/22 13:00	06/18/22 01:15	1
Ethylbenzene	<0.000113	U	0.000400	0.000113	mg/Kg		06/17/22 13:00	06/18/22 01:15	1
m-Xylene & p-Xylene	<0.000202	U	0.000800	0.000202	mg/Kg		06/17/22 13:00	06/18/22 01:15	1
o-Xylene	<0.0000688	U	0.000400	0.0000688	mg/Kg		06/17/22 13:00	06/18/22 01:15	1
Xylenes, Total	<0.000202	U	0.000800	0.000202	mg/Kg		06/17/22 13:00	06/18/22 01:15	1

Surrogate	MB %Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130	06/17/22 13:00	06/18/22 01:15	1
1,4-Difluorobenzene (Surr)	89		70 - 130	06/17/22 13:00	06/18/22 01:15	1

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

Lab Sample ID: MB 880-27556/1-A

Matrix: Solid

Analysis Batch: 27563

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 27556

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		06/15/22 08:52	06/15/22 11:07	1

Eurofins Midland

## QC Sample Results

Client: Talon/LPE  
Project/Site: Devon Mimosa 24

Job ID: 880-15889-1  
SDG: Lea Co, NM

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

Lab Sample ID: MB 880-27556/1-A

Matrix: Solid

Analysis Batch: 27563

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 27556

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		06/15/22 08:52	06/15/22 11:07	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		06/15/22 08:52	06/15/22 11:07	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				06/15/22 08:52	06/15/22 11:07	1
o-Terphenyl	114		70 - 130				06/15/22 08:52	06/15/22 11:07	1

Lab Sample ID: LCS 880-27556/2-A

Matrix: Solid

Analysis Batch: 27563

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 27556

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1104		mg/Kg		110	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1083		mg/Kg		108	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	103		70 - 130				
o-Terphenyl	113		70 - 130				

Lab Sample ID: LCSD 880-27556/3-A

Matrix: Solid

Analysis Batch: 27563

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 27556

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	837.3	*1	mg/Kg		84	70 - 130	27	20
Diesel Range Organics (Over C10-C28)	1000	1017		mg/Kg		102	70 - 130	6	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	93		70 - 130						
o-Terphenyl	106		70 - 130						

Lab Sample ID: 880-15888-A-1-B MS

Matrix: Solid

Analysis Batch: 27563

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 27556

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	20.8	J *1	998	838.6		mg/Kg		82	70 - 130
Diesel Range Organics (Over C10-C28)	<15.0	U	998	808.9		mg/Kg		81	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	88		70 - 130						
o-Terphenyl	91		70 - 130						

Eurofins Midland

## QC Sample Results

Client: Talon/LPE  
Project/Site: Devon Mimosa 24

Job ID: 880-15889-1  
SDG: Lea Co, NM

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

Lab Sample ID: 880-15888-A-1-C MSD

Matrix: Solid

Analysis Batch: 27563

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 27556

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	20.8	J *1	999	842.4		mg/Kg		82	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<15.0	U	999	851.7		mg/Kg		85	70 - 130	5	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	89		70 - 130								
o-Terphenyl	92		70 - 130								

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-27806/1-A

Matrix: Solid

Analysis Batch: 28041

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.858	U	5.00	0.858	mg/Kg			06/21/22 13:25	1

Lab Sample ID: LCS 880-27806/2-A

Matrix: Solid

Analysis Batch: 28041

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	250	254.4		mg/Kg		102	90 - 110		

Lab Sample ID: LCSD 880-27806/3-A

Matrix: Solid

Analysis Batch: 28041

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	254.9		mg/Kg		102	90 - 110	0	20

Lab Sample ID: 880-15840-A-1-C MS

Matrix: Solid

Analysis Batch: 28041

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	161		250	402.3		mg/Kg		97	90 - 110		

Lab Sample ID: 880-15840-A-1-D MSD

Matrix: Solid

Analysis Batch: 28041

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	161		250	399.7		mg/Kg		96	90 - 110	1	20

Eurofins Midland

## QC Association Summary

Client: Talon/LPE  
Project/Site: Devon Mimosa 24

Job ID: 880-15889-1  
SDG: Lea Co, NM

## GC VOA

## Analysis Batch: 27741

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15889-1	S-6	Total/NA	Solid	8021B	27794
880-15889-2	S-7	Total/NA	Solid	8021B	27794
MB 880-27794/5-A	Method Blank	Total/NA	Solid	8021B	27794
MB 880-27819/5-A	Method Blank	Total/NA	Solid	8021B	27819
LCS 880-27794/1-A	Lab Control Sample	Total/NA	Solid	8021B	27794
LCSD 880-27794/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	27794
880-15834-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	27794
880-15834-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	27794

## Prep Batch: 27794

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15889-1	S-6	Total/NA	Solid	5035	
880-15889-2	S-7	Total/NA	Solid	5035	
MB 880-27794/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-27794/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-27794/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-15834-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
880-15834-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

## Prep Batch: 27819

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-27819/5-A	Method Blank	Total/NA	Solid	5035	

## Analysis Batch: 27958

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15889-1	S-6	Total/NA	Solid	Total BTEX	
880-15889-2	S-7	Total/NA	Solid	Total BTEX	

## GC Semi VOA

## Prep Batch: 27556

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15889-1	S-6	Total/NA	Solid	8015NM Prep	
880-15889-2	S-7	Total/NA	Solid	8015NM Prep	
MB 880-27556/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-27556/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-27556/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-15888-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-15888-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

## Analysis Batch: 27563

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15889-1	S-6	Total/NA	Solid	8015B NM	27556
880-15889-2	S-7	Total/NA	Solid	8015B NM	27556
MB 880-27556/1-A	Method Blank	Total/NA	Solid	8015B NM	27556
LCS 880-27556/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	27556
LCSD 880-27556/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	27556
880-15888-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	27556
880-15888-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	27556

Eurofins Midland



## QC Association Summary

Client: Talon/LPE  
Project/Site: Devon Mimosa 24

Job ID: 880-15889-1  
SDG: Lea Co, NM

## GC Semi VOA

## Analysis Batch: 27669

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15889-1	S-6	Total/NA	Solid	8015 NM	
880-15889-2	S-7	Total/NA	Solid	8015 NM	

## HPLC/IC

## Leach Batch: 27806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15889-1	S-6	Soluble	Solid	DI Leach	
880-15889-2	S-7	Soluble	Solid	DI Leach	
MB 880-27806/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-27806/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-27806/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-15840-A-1-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-15840-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

## Analysis Batch: 28041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15889-1	S-6	Soluble	Solid	300.0	27806
880-15889-2	S-7	Soluble	Solid	300.0	27806
MB 880-27806/1-A	Method Blank	Soluble	Solid	300.0	27806
LCS 880-27806/2-A	Lab Control Sample	Soluble	Solid	300.0	27806
LCSD 880-27806/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	27806
880-15840-A-1-C MS	Matrix Spike	Soluble	Solid	300.0	27806
880-15840-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	27806

## Lab Chronicle

Client: Talon/LPE  
Project/Site: Devon Mimosa 24

Job ID: 880-15889-1  
SDG: Lea Co, NM

Client Sample ID: S-6

Lab Sample ID: 880-15889-1

Date Collected: 06/13/22 13:00

Matrix: Solid

Date Received: 06/14/22 16:30

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	27794	06/17/22 09:57	MR	XEN MID
Total/NA	Analysis	8021B		1			27741	06/18/22 19:26	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27958	06/20/22 14:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			27669	06/16/22 09:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	27556	06/15/22 08:52	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27563	06/15/22 13:19	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	27806	06/17/22 11:40	SC	XEN MID
Soluble	Analysis	300.0		1			28041	06/21/22 19:25	CH	XEN MID

Client Sample ID: S-7

Lab Sample ID: 880-15889-2

Date Collected: 06/13/22 13:02

Matrix: Solid

Date Received: 06/14/22 16:30

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	27794	06/17/22 09:57	MR	XEN MID
Total/NA	Analysis	8021B		1			27741	06/18/22 19:53	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27958	06/20/22 14:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			27669	06/16/22 09:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27556	06/15/22 08:52	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27563	06/15/22 13:40	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	27806	06/17/22 11:40	SC	XEN MID
Soluble	Analysis	300.0		1			28041	06/21/22 19:34	CH	XEN MID

## Laboratory References:

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

Accreditation/Certification Summary

Client: Talon/LPE  
Project/Site: Devon Mimosa 24

Job ID: 880-15889-1  
SDG: Lea Co, 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	T104704400-21-22	06-30-22

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: Devon Mimosa 24

Job ID: 880-15889-1  
SDG: Lea Co, NM

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

## Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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:

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

Sample Summary

Client: Talon/LPE  
Project/Site: Devon Mimosa 24

Job ID: 880-15889-1  
SDG: Lea Co, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-15889-1	S-6	Solid	06/13/22 13:00	06/14/22 16:30	0-1'
880-15889-2	S-7	Solid	06/13/22 13:02	06/14/22 16:30	0-1'

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





## Environment Testing

Houston, TX (281) 240-4200, Dallas TX (214) 902-0300  
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3332  
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: 1588

www.xenco.com Page 1 of 1

Project Manager	Kayla Taylor	Bill to: (if different)	
Company Name	Talton LPE	Company Name:	
Address:	408 W. Texas	Address	
City, State Zip	Artesia, NM	City, State Zip	
Phone	473-216-5443	Email	KTaylor@taltonlpe.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: <input type="text"/>	

<b>Project Name:</b>						Duran Mimosca 2L						<b>Turn Around</b>	
<b>Project Number:</b>						700794-888-370-01						<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush	
<b>Project Location:</b>						F&M Co. NM						<b>Due Date</b>	
<b>Sampler's Name:</b>						K. Taylor						TAT starts the day received by the lab, if received by 4:30pm	
<b>P.O. #</b>													
<b>SAMPLE RECEIPT</b>													
<b>Samples Received Intact:</b>						Temp Blank:		Yes <input type="radio"/> No <input checked="" type="radio"/>		Wet Ice:		Yes <input type="radio"/> No <input checked="" type="radio"/>	
<b>Cooler Custody Seals:</b>						Yes <input type="radio"/> No <input checked="" type="radio"/>		Thermometer ID:		Correction Factor:		-1.2	
<b>Sample Custody Seals:</b>						Yes <input type="radio"/> No <input checked="" type="radio"/>		Temperature Reading:		Corrected Temperature:		9.9	
<b>Total Containers:</b>													
Parameters												<b>Pres. Code</b>	
IT 8015M TEX oricles 300.0													
ANALYSIS REQUEST													<b>Preservative Codes</b>
													None NO
													D1 Water H <sub>2</sub> O
													Cool Cool
													HCL HC
													H <sub>2</sub> SO <sub>4</sub> H <sub>2</sub>
													H <sub>3</sub> PO <sub>4</sub> HP
													NaHSO <sub>4</sub> NABIS
													Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> NaSO <sub>3</sub>
													Zn Acetate+NaOH Zn
													NaOH+Ascorbic Acid SAPC

[illegible]

880-15889 Chain of Custody



Total 2007 / 6010	2008 / 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 Tl Sn U V Zr
TCPL / SPLP 6010	8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U	Hg 1631 / 2451 / 7470 / 7471

Notices: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xeno, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xeno 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 Xeno. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xeno, 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
<i>[Signature]</i>	<i>[Signature]</i>	6/18/22			
		6:30			

## Login Sample Receipt Checklist

Client: Talon/LPE

Job Number: 880-15889-1

SDG Number: Lea Co, NM

Login Number: 15889

List Number: 1

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
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.	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	



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

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March 09, 2023

KAYLA TAYLOR

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: MIMISA 24 FED 1H

Enclosed are the results of analyses for samples received by the laboratory on 03/01/23 11:14.

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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first letters of the first and last names being capitalized and prominent.

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: MIMISA 24 FED 1H  
Project Number: 700794.370.01  
Project Manager: KAYLA TAYLOR  
Fax To: (575) 745-8905Reported:  
09-Mar-23 14:41

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SWS - 1 (D)	H230953-01	Soil	23-Feb-23 11:05	01-Mar-23 11:14
WSW - 1 (D)	H230953-02	Soil	23-Feb-23 11:15	01-Mar-23 11:14

03/09/23 - Client changed the sample IDs (see COC). This is the revised report and will replace the one sent on 03/06/23.

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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: MIMISA 24 FED 1H  
Project Number: 700794.370.01  
Project Manager: KAYLA TAYLOR  
Fax To: (575) 745-8905

Reported:  
09-Mar-23 14:41

**SWS - 1 (D)**  
**H230953-01 (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	3030224	AC	02-Mar-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3030203	JH	03-Mar-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3030203	JH	03-Mar-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3030203	JH	03-Mar-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3030203	JH	03-Mar-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3030203	JH	03-Mar-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134 3030203 JH 03-Mar-23 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3030205	MS	02-Mar-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3030205	MS	02-Mar-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3030205	MS	02-Mar-23	8015B	

Surrogate: 1-Chlorooctane 113 % 48.2-134 3030205 MS 02-Mar-23 8015B

Surrogate: 1-Chlorooctadecane 119 % 49.1-148 3030205 MS 02-Mar-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: MIMISA 24 FED 1H  
Project Number: 700794.370.01  
Project Manager: KAYLA TAYLOR  
Fax To: (575) 745-8905

Reported:  
09-Mar-23 14:41

**WSW - 1 (D)**  
**H230953-02 (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>528</b>		16.0	mg/kg	4	3030224	AC	02-Mar-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3030203	JH	03-Mar-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3030203	JH	03-Mar-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3030203	JH	03-Mar-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3030203	JH	03-Mar-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3030203	JH	03-Mar-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			101 %	71.5-134		3030203	JH	03-Mar-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3030205	MS	02-Mar-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3030205	MS	02-Mar-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3030205	MS	02-Mar-23	8015B	

Surrogate: 1-Chlorooctane			104 %	48.2-134		3030205	MS	02-Mar-23	8015B	
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Surrogate: 1-Chlorooctadecane			112 %	49.1-148		3030205	MS	02-Mar-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: MIMISA 24 FED 1H  
Project Number: 700794.370.01  
Project Manager: KAYLA TAYLOR  
Fax To: (575) 745-8905

Reported:  
09-Mar-23 14:41

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 3030224 - 1:4 DI Water</b>									
<b>Blank (3030224-BLK1)</b>					Prepared & Analyzed: 02-Mar-23				
Chloride	ND	16.0	mg/kg						
<b>LCS (3030224-BS1)</b>					Prepared & Analyzed: 02-Mar-23				
Chloride	416	16.0	mg/kg	400		104 80-120			
<b>LCS Dup (3030224-BSD1)</b>					Prepared & Analyzed: 02-Mar-23				
Chloride	432	16.0	mg/kg	400		108 80-120	3.77	20	

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**Analytical Results For:**

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

Project: MIMISA 24 FED 1H  
Project Number: 700794.370.01  
Project Manager: KAYLA TAYLOR  
Fax To: (575) 745-8905

Reported:  
09-Mar-23 14:41

**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 3030203 - Volatiles****Blank (3030203-BLK1)**

Prepared &amp; Analyzed: 02-Mar-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)	0.0503		mg/kg	0.0500		101	71.5-134			

**LCS (3030203-BS1)**

Prepared &amp; Analyzed: 02-Mar-23

Benzene	2.10	0.050	mg/kg	2.00		105	81.4-118			
Toluene	2.08	0.050	mg/kg	2.00		104	88.7-121			
Ethylbenzene	2.03	0.050	mg/kg	2.00		101	86.1-120			
m,p-Xylene	4.17	0.100	mg/kg	4.00		104	88.2-124			
o-Xylene	2.03	0.050	mg/kg	2.00		101	84.9-118			
Total Xylenes	6.20	0.150	mg/kg	6.00		103	87.3-122			
Surrogate: 4-Bromofluorobenzene (PID)	0.0489		mg/kg	0.0500		97.7	71.5-134			

**LCS Dup (3030203-BSD1)**

Prepared &amp; Analyzed: 02-Mar-23

Benzene	2.10	0.050	mg/kg	2.00		105	81.4-118	0.101	15.8	
Toluene	2.08	0.050	mg/kg	2.00		104	88.7-121	0.128	15.9	
Ethylbenzene	2.03	0.050	mg/kg	2.00		101	86.1-120	0.133	16	
m,p-Xylene	4.13	0.100	mg/kg	4.00		103	88.2-124	1.03	16.2	
o-Xylene	2.01	0.050	mg/kg	2.00		101	84.9-118	0.915	16.7	
Total Xylenes	6.14	0.150	mg/kg	6.00		102	87.3-122	0.989	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0481		mg/kg	0.0500		96.3	71.5-134			

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**Analytical Results For:**

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

Project: MIMISA 24 FED 1H  
Project Number: 700794.370.01  
Project Manager: KAYLA TAYLOR  
Fax To: (575) 745-8905

Reported:  
09-Mar-23 14:41

**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 3030205 - General Prep - Organics****Blank (3030205-BLK1)**

Prepared &amp; Analyzed: 02-Mar-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	51.5		mg/kg	50.0		103	48.2-134			
Surrogate: 1-Chlorooctadecane	55.5		mg/kg	50.0		111	49.1-148			

**LCS (3030205-BS1)**

Prepared &amp; Analyzed: 02-Mar-23

GRO C6-C10	217	10.0	mg/kg	200		109	78.5-124			
DRO >C10-C28	215	10.0	mg/kg	200		107	72.5-126			
Total TPH C6-C28	432	10.0	mg/kg	400		108	77.6-123			
Surrogate: 1-Chlorooctane	57.8		mg/kg	50.0		116	48.2-134			
Surrogate: 1-Chlorooctadecane	62.6		mg/kg	50.0		125	49.1-148			

**LCS Dup (3030205-BSD1)**

Prepared &amp; Analyzed: 02-Mar-23

GRO C6-C10	225	10.0	mg/kg	200		112	78.5-124	3.19	17.7	
DRO >C10-C28	227	10.0	mg/kg	200		113	72.5-126	5.35	21	
Total TPH C6-C28	451	10.0	mg/kg	400		113	77.6-123	4.27	18.5	
Surrogate: 1-Chlorooctane	58.4		mg/kg	50.0		117	48.2-134			
Surrogate: 1-Chlorooctadecane	64.3		mg/kg	50.0		129	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", written over a horizontal line.

---

Celey D. Keene, Lab Director/Quality Manager





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

[illegible]

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+ Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

**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**

CONDITIONS  
  
Action 226640

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 226640
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	Devon's deferral requests deferral of final remediation for Incident Number NAPP2200659729 until the site is reconstructed, and/or the well pad is abandoned. Talon and Devon do not believe deferment will result in imminent risk to human health, the environment, or groundwater. The areas requested for deferral are the impacted soil, which include sidewall sample areas (SSW-1 and WSW-1). The areas have been delineated and documented in the report. At this time, OCD approves this request. The Deferral Request and C-141 will be accepted for record and marked accordingly. The release will remain open in OCD database files and reflect an open environmental issue.	11/14/2023