

Incident ID	NAPP2310456005
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

Printed Name: Connor Walker Title: Sr. Engineer

Signature:  Date: 6/6/2023

email: cwalker@mewbourne.com Telephone: 806-202-5281

OCD Only

Received by: Jocelyn Harimon Date: 06/06/2023

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

Closure Approved by: Robert Hamlet Date: 11/3/2023

Printed Name: Robert Hamlet Title: Environmental Specialist - Advanced



Pima Environmental Services
5614 N. Lovington Highway
Hobbs, NM 88240
575-964-7740

May 23, 2023

NMOCD District 2
 811 S. First Street
 Artesia, NM 88210

Re: Site Assessment, Remediation, and Closure Report
Derringer Federal SWD #1
API No. 30-015-30828
GPS: Latitude 32.568079 Longitude -104.115857
UL - N, 18, T20S, R29E
Eddy County, NM
NMOCD Ref. No. NAPP2310456005

Pima Environmental Services, LLC. (Pima) has been contracted by Mewbourne Oil Company, (Mewbourne) to perform a spill assessment, remediation activities, and submit this closure report for a crude oil release that occurred at the Derringer Federal SWD #1 (Derringer). The initial C-141 was submitted on April 12, 2023 (Appendix C). This incident was assigned Incident ID NAPP2310456005 by the New Mexico Oil Conservation Division (NMOCD).

Site Characterization

The Derringer is located approximately ten (10) miles Northeast of Carlsbad, NM. This spill site is in Unit N, Section 18, Township 20S, Range 29E, Latitude 32.568079 Longitude -104.115857, Eddy County, NM. Figure 1 references a Location Map.

Per the New Mexico Bureau of Geology and Mineral Resources, the geology is made up of Interlayered Piedmont alluvial deposits of higher gradient tributaries bordering major stream valleys, alluvial veneers of the piedmont slope, and alluvial fans. May locally include uppermost Pliocene deposits. The soil in this area is made up of Reeves-Gypsum land complex, 0 to 3 percent slopes according to the United States Department of Agriculture Natural Resources Conservation Service soil survey (Appendix B). The drainage class in this area is well drained. There is a high potential for karst geology to be present around the Derringer (Figure 3).

According to the New Mexico Office of the State Engineer, depth to the nearest groundwater in this area is 100 feet below grade surface (BGS). According to the United States Geological Survey (USGS), the nearest groundwater is 43 feet BGS. The closest waterway is Avalon Lake located approximately 8.58 miles to the southwest of this location. See Appendix A for referenced water surveys.

Table 1 NMAC and Closure Criteria 19.15.29

Depth to Groundwater (Appendix A)	Constituent & Limits				
	Chlorides	Total TPH	GRO+DRO	BTEX	Benzene
<50' High Karst	600 mg/kg	100 mg/kg		50 mg/kg	10 mg/kg
51-100'	10,000 mg/kg	2,500 mg/kg	1,000 mg/kg	50 mg/kg	10 mg/kg
>100'	20,000 mg/kg	2,500 mg/kg	1,000 mg/kg	50 mg/kg	10 mg/kg

Reference Figure 2 for a Topographic Map.

Derringer Federal SWD #1 | Mewbourne Oil Company

Release Information

NAPP2310456005: On April 3, 2023, tanks overflowed due to trucks overloading the tanks, causing crude oil to be released from the hatch of the top tank onto the pad and into containment. The released fluids were calculated to be approximately 32 barrels (bbls) of crude oil. Vacuum trucks were able to recover approximately 30 bbls of fluid from the lined SPCC containment ring. Once fluids were removed, the liner was visually inspected by Mewbourne field staff for any pinholes or punctures, and none were found. Approximately 2 bbls of fluid oversprayed onto the pad and were not able to be recovered.

Remediation Activities, Site Assessment, and Soil Sampling Results

On April 18, 2023, Pima mobilized personnel to the site to begin collecting soil samples from the spill area on the pad. The laboratory results of this sampling event can be found in the following data table. A Site Map can be found in Figure 4.

4-18-23 Soil Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50')								
MEWBOURNE OIL COMPANY - DERRINGER FED SWD 1								
Sample Date 4/18/23		NM Approved Laboratory Results						
Sample ID	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
S-1	1'	ND	ND	ND	ND	ND	0	720
	2'	ND	ND	ND	ND	ND	0	ND
S-2	1'	ND	ND	ND	145	21.9	166.9	480
	2'	ND	ND	ND	ND	ND	0	32
S-3	1'	ND	ND	ND	397	73.9	470.9	208
	2'	ND	ND	ND	ND	ND	0	32
S-4	1'	ND	ND	ND	76.9	10.9	87.8	4930
	2'	ND	ND	ND	ND	ND	0	32
S-5	1'	ND	ND	ND	451	91.9	542.9	2880
	2'	ND	ND	ND	ND	ND	0	16
SW 1	6"	ND	ND	ND	ND	ND	0	32
SW 2	6"	ND	ND	ND	ND	ND	0	16
SW 3	6"	ND	ND	ND	ND	ND	0	ND
SW 4	6"	ND	ND	ND	ND	ND	0	32
SW 5	6"	ND	ND	ND	ND	ND	0	32
BG 1	6"	ND	ND	ND	ND	ND	0	32

ND- Analyte Not Detected

On April 20, 2023, Pima Environmental Services mobilized personnel and equipment to begin immediate remediation activities. They began excavating the area to a depth of 2' BGS. The contaminated soil was hauled to an approved, lined disposal facility and clean backfill material was brought in.

On April 23, 2023, after sending a 48-hour notification (Appendix C), Pima returned to the site to collect confirmation samples of the excavation. The results of this sampling event can be found in the following table. A Confirmation Sample Map can be found in Figure 5.

4-23-23 Confirmation Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50')								
MEWBOURNE OIL COMPANY - DERRINGER FED SWD 1								
Sample Date 4/23/23		NM Approved Laboratory Results						
Sample ID	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
CS 1	2'	ND	ND	ND	ND	ND	0	32
CS 2	2'	ND	ND	ND	ND	ND	0	ND
CS 3	2'	ND	ND	ND	ND	ND	0	16
CS 4	2'	ND	ND	ND	ND	ND	0	ND
CS 5	2'	ND	ND	ND	ND	ND	0	ND
CS 6	2'	ND	ND	ND	ND	ND	0	ND
CS 7	2'	ND	ND	ND	ND	ND	0	ND
CSW 1	2'	ND	ND	ND	ND	ND	0	16
CSW 2	2'	ND	ND	ND	ND	ND	0	32
CSW 3	2'	ND	ND	ND	ND	ND	0	ND
CSW 4	2'	ND	ND	ND	ND	ND	0	ND
CSW 5	2'	ND	ND	ND	ND	ND	0	ND
CSW 6	2'	ND	ND	ND	ND	ND	0	ND
CSW 7	2'	ND	ND	ND	ND	ND	0	ND
CSW 8	2'	ND	ND	ND	ND	ND	0	ND
CSW 9	2'	ND	ND	ND	ND	ND	0	ND
CSW 10	2'	ND	ND	ND	ND	ND	0	ND

ND- Analyte Not Detected

Derringer Federal SWD #1 | [Mewbourne Oil Company](#)

Complete laboratory reports can be found in Appendix E.

Based on the sample results, the bottoms and sidewalls were below NMOCD Closure Criteria 19.15.29 NMAC. The contaminated material was removed then transported to an NMOCD approved disposal site. The excavation was then backfilled with clean like material, machine compacted and returned to its previous state. See Appendix D for Photographic Documentation.

Site Assessment and Liner Inspection

On April 30, 2023, after sending the 48-hour Notification (Appendix C) via email, Pima Environmental conducted a liner inspection at this location. We concluded that this liner and containment maintained its integrity and was able to retain the fluids. The Liner Inspection Form and photographic documentation can be found in Appendix D.

Closure Request

After careful review, Pima requests that this incident, NAPP2310456005, be closed. Devon has complied with the applicable closure requirements set forth in rule 19.15.19.12 NMAC.

Should you have any questions or need additional information, please feel free to contact Gio Gomez at 806-782-1151 or gio@pimaoil.com.

Respectfully,



Gio Gomez
Project Manager
Pima Environmental Services, LLC

Attachments

Figures:

- 1- Location Map
- 2- Topographic Map
- 3- Karst Map
- 4- Site Maps
- 5- Confirmation Sample Map

Appendices:

- Appendix A – Referenced Water Surveys
- Appendix B – Soil Survey and Geological Data
- Appendix C – C-141 Form and 48 Hour Notifications
- Appendix D – Photographic Documentation
- Appendix E – Laboratory Reports



Pima Environmental Services

Figures:

1-Location Map

2-Topographic Map

3-Karst Map

4-Site Map

5-Confirmation Sample Map

Derringer Federal SWD #1

Mewbourne Oil Company
API: 30-015-30828
Eddy County, NM
Location Map

Legend

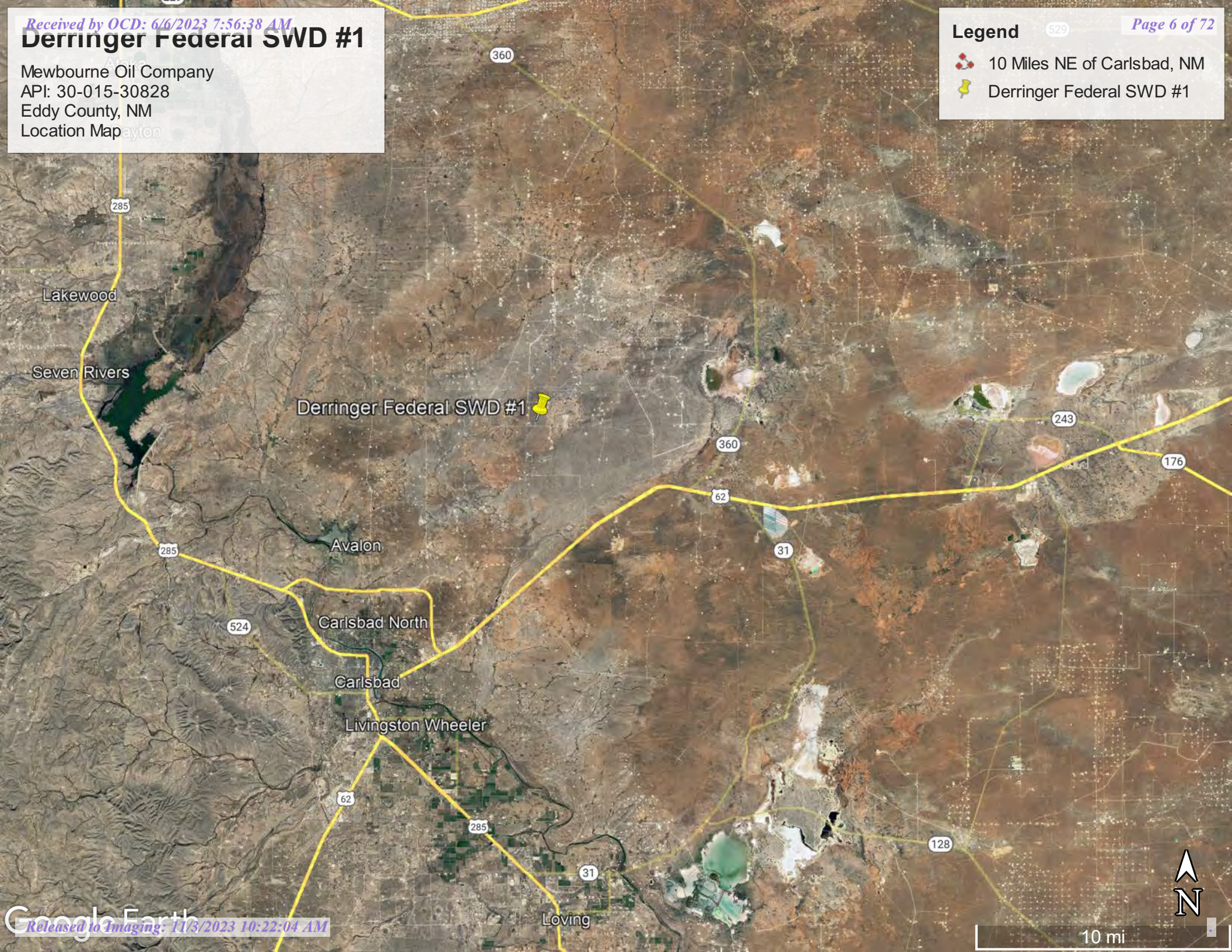
529



10 Miles NE of Carlsbad, NM




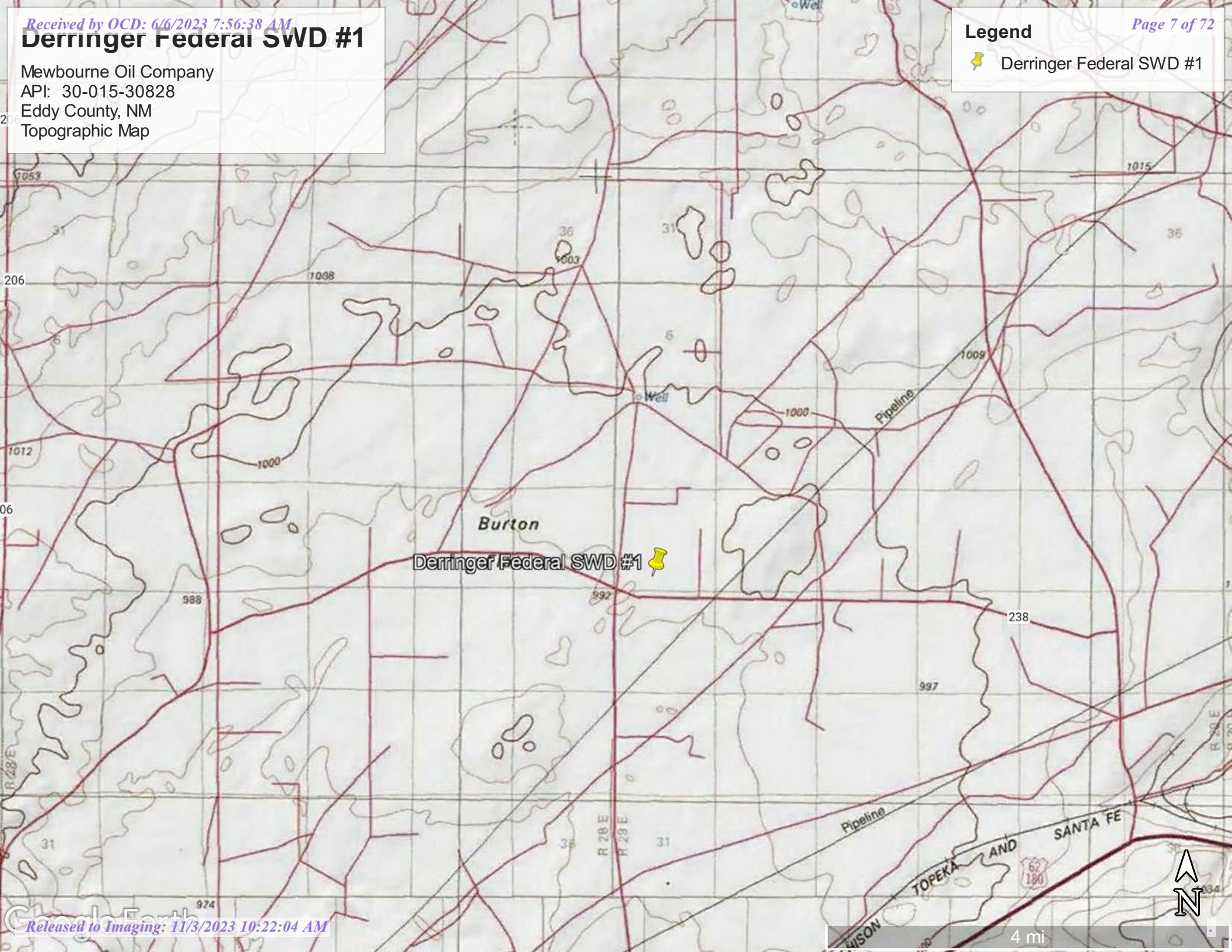
Derringer Federal SWD #1



10 mi

Legend





 Derringer Federal SWD #1

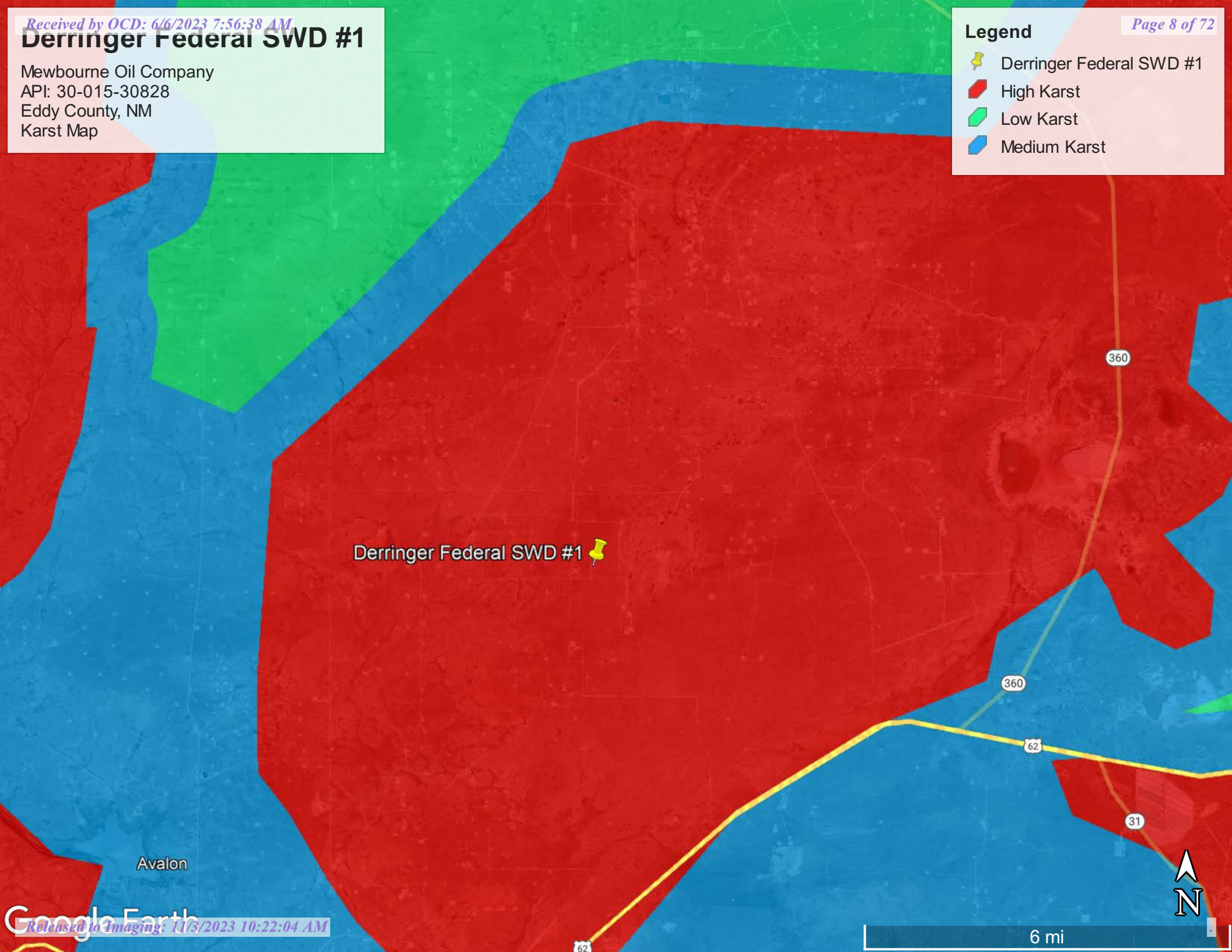



Derringer Federal SWD #1

Mewbourne Oil Company
API: 30-015-30828
Eddy County, NM
Karst Map

Legend

-  Derringer Federal SWD #1
-  High Karst
-  Low Karst
-  Medium Karst



Derringer Federal SWD #1 

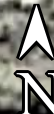
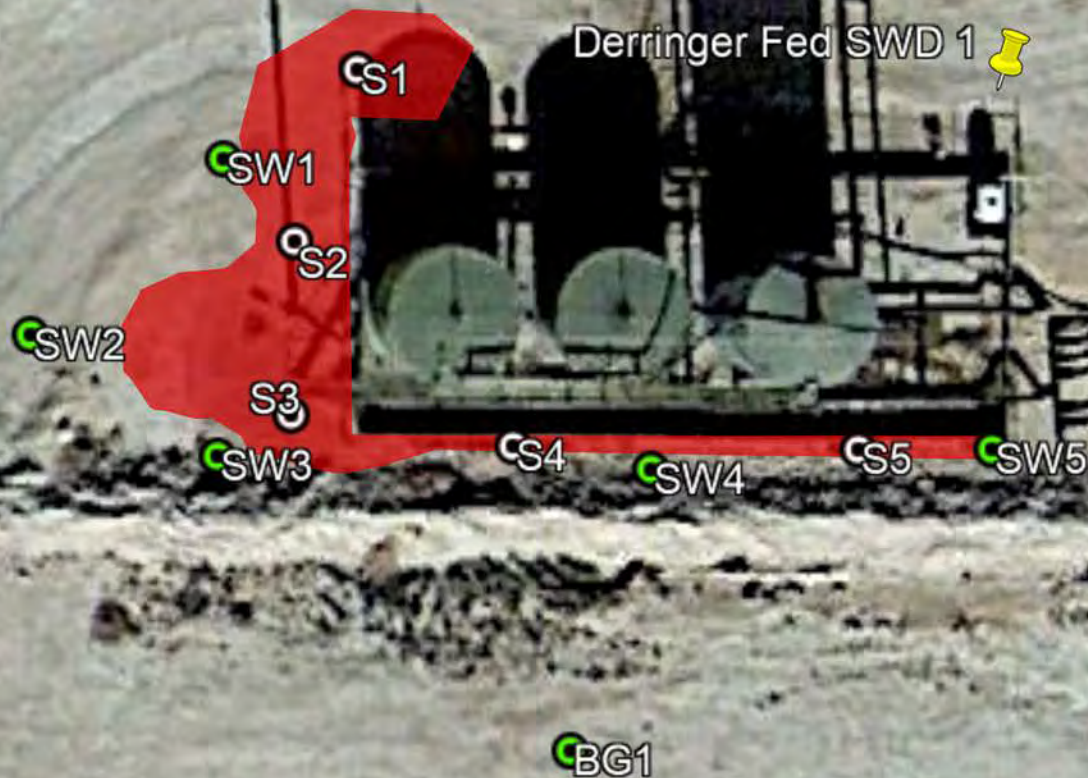
Avalon

Derringer Fed SWD #1

Mewbourne Oil Company
API: 30-015-30828
Eddy County, NM
Site Map
32.56788,-104.11610

Legend

- Background/Sidewalls
- 📌 Derringer Fed SWD 1
- ⊙ Samples




80 ft

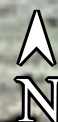
Derringer Fed SWD #1

Mewbourne Oil Company
API: 30-015-30828
Eddy, County, NM
Site Map Liner

Legend

 Derringer Fed SWD 1

Derringer Fed SWD 1





70 ft

Derringer Federal SWD 1

Mewbourne Oil Company
API: 30-015-30828
Eddy County, NM
Confirmation Sample Map

Legend

-  Derringer Fed SWD 1
-  Confirmation Samples



Derringer Fed SWD 1



100 ft



Pima Environmental Services

Appendix A

Water Surveys:

OSE

USGS

Surface Water 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	Distance	DepthWell	DepthWater	Water Column
CP 01201 POD1		CP	ED	2	2	1	18	20S	29E	582983	3605121	1371	140	100	40
C 03265 POD1		CUB	ED	1	1	3	20	20S	29E	584052	3602648*	1526	89	52	37
CP 01866 POD1		CP	ED	2	3	3	20	20S	29E	584324	3602154	2076	52	44	8
CP 00936 POD1		CP	ED	3	4	2	30	20S	29E	583661	3601238*	2598	70	52	18
CP 00525		CP	ED	3	2	1	14	20S	28E	579656	3604847*	3514	171	140	31
CP 00833 POD1		CP	LE		1	2	16	20S	29E	586548	3604978*	3758	100		
CP 00926 POD1		CP	LE	2	1	4	01	20S	28E	581793	3607405	3848	300		
CP 01862 POD1		CP	ED	2	2	2	15	20S	28E	579002	3605104	4216	150	70	80
CP 00743 POD1		CP	ED		2	4	05	20S	29E	585319	3607382*	4311	160		
CP 00752 POD1		CP	ED		1	3	15	20S	29E	587293	3604181	4319	2567		
C 03269 POD1		CUB	ED	3	4	1	36	20S	28E	581268	3599609*	4486	28	22	6
CP 00759		CP	ED		4	2	28	20S	29E	586984	3601360*	4649	205	90	115
CP 01589 POD1		CP	ED	1	2	1	35	20S	28E	579674	3600121	4919	109	70	39

Average Depth to Water: **71 feet**

Minimum Depth: **22 feet**

Maximum Depth: **140 feet**

Record Count: 13

UTMNAD83 Radius Search (in meters):

Easting (X): 582995.3

Northing (Y): 3603749.92

Radius: 5000

*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.

4/26/23 9:42 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER



[USGS Home](#)
[Contact USGS](#)
[Search USGS](#)

National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater

Geographic Area:

United States

GO

Click to hide News Bulletins

- Explore the *NEW* [USGS National Water Dashboard](#) interactive map to access real-time water data from over 13,500 stations nationwide.
- [Full News](#) 

Groundwater levels for the Nation

 Important: [Next Generation Monitoring Location Page](#)

Search Results -- 1 sites found

site_no list =

- 323332104061201

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

USGS 323332104061201 20S.29E.20.133

Available data for this site

Groundwater: Field measurements

GO

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°33'33.1", Longitude 104°06'16.9" NAD83

Land-surface elevation 3,246 feet above NAVD88

The depth of the well is 63 feet below land surface.

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Rustler Formation (312RSLR) local aquifer.

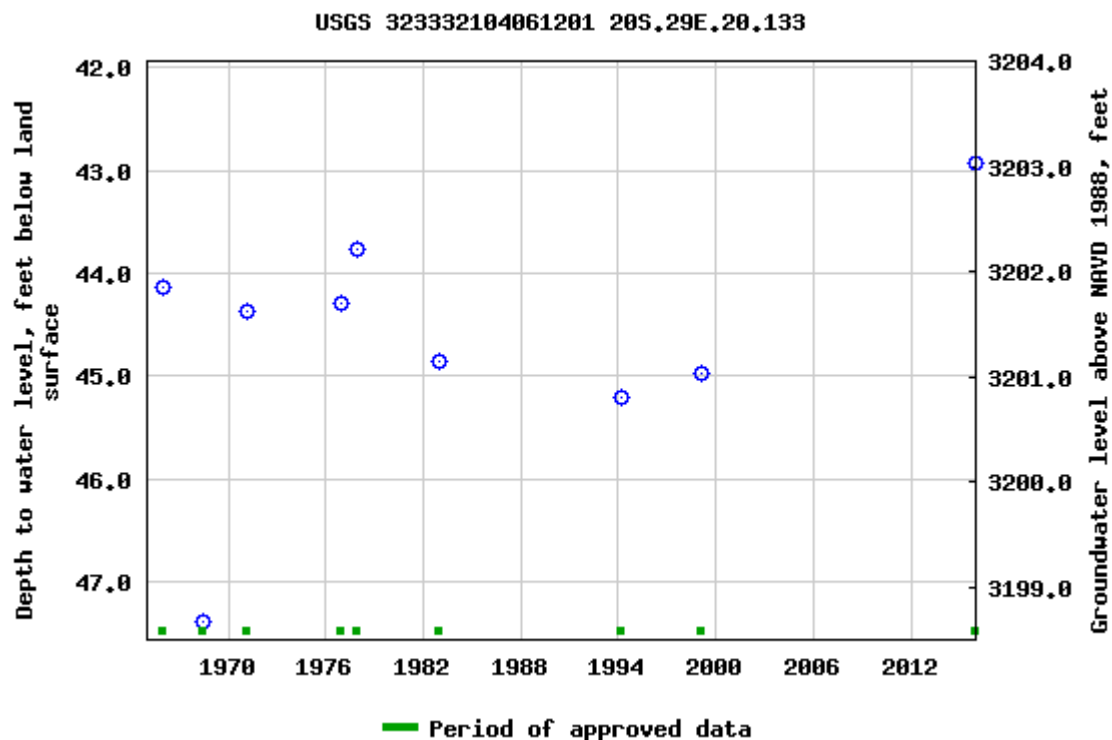
Output formats

[Table of data](#)

[Tab-separated data](#)

[Graph of data](#)

[Reselect period](#)



Breaks in the plot represent a gap of at least one year between field measurements.

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Title: Groundwater for USA: Water Levels

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



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

Page Last Modified: 2023-04-26 11:38:58 EDT

0.57 0.49 nadww01

Derringer Federal SWD #1


Mewbourne Oil Company


API:

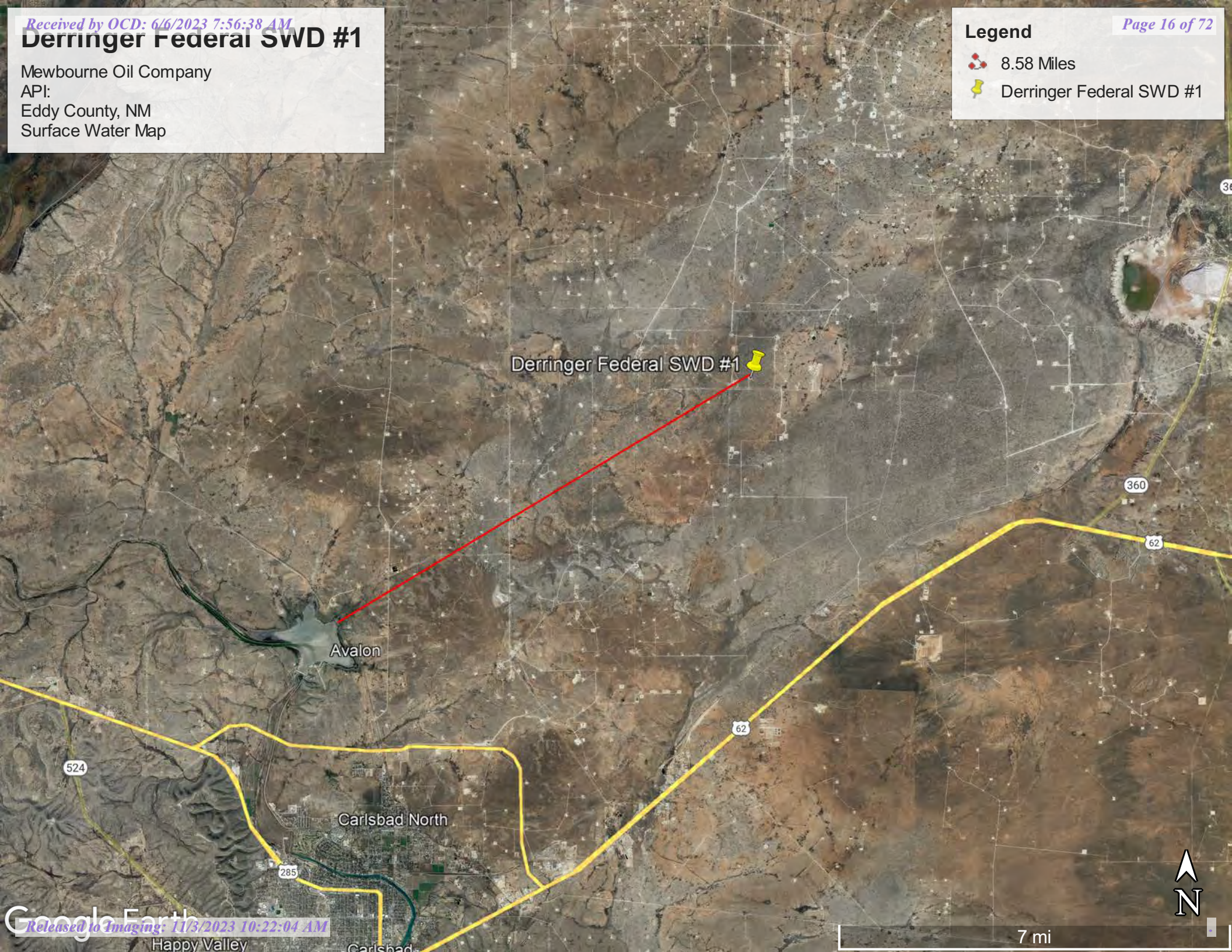
Eddy County, NM

Surface Water Map

Legend

 8.58 Miles

 Derringer Federal SWD #1





Pima Environmental Services

Appendix B

Soil Survey & Geological Data

FEMA Flood Map

Wetlands Map

Map Unit Description: Reeves-Gypsum land complex, 0 to 3 percent slopes---Eddy Area, New Mexico

Eddy Area, New Mexico

RG—Reeves-Gypsum land complex, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 1w5f
Elevation: 1,250 to 5,000 feet
Mean annual precipitation: 10 to 25 inches
Mean annual air temperature: 57 to 70 degrees F
Frost-free period: 190 to 235 days
Farmland classification: Not prime farmland

Map Unit Composition

Reeves and similar soils: 55 percent
Gypsum land: 30 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Reeves

Setting

Landform: Ridges, plains, hills
Landform position (two-dimensional): Shoulder, backslope, footslope, toeslope
Landform position (three-dimensional): Side slope, head slope, nose slope, crest
Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Residuum weathered from gypsum

Typical profile

H1 - 0 to 8 inches: loam
H2 - 8 to 32 inches: clay loam
H3 - 32 to 60 inches: gypsiferous material

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 25 percent
Gypsum, maximum content: 80 percent
Maximum salinity: Very slightly saline to moderately saline (2.0 to 8.0 mmhos/cm)
Sodium adsorption ratio, maximum: 4.0
Available water supply, 0 to 60 inches: Low (about 4.3 inches)

Map Unit Description: Reeves-Gypsum land complex, 0 to 3 percent slopes---Eddy Area, New Mexico

Interpretive groups

Land capability classification (irrigated): 3s

Land capability classification (nonirrigated): 7s

Hydrologic Soil Group: B

Ecological site: R070BC007NM - Loamy

Hydric soil rating: No

Description of Gypsum Land**Setting**

Landform: Ridges, plains, hills

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

Landform position (three-dimensional): Side slope, head slope, nose slope, crest

Down-slope shape: Convex

Across-slope shape: Linear

Parent material: Residuum weathered from gypsum

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 8s

Hydric soil rating: No

Minor Components**Largo**

Percent of map unit: 5 percent

Ecological site: R070BC007NM - Loamy

Hydric soil rating: No

Reagan

Percent of map unit: 5 percent

Ecological site: R070BC007NM - Loamy

Hydric soil rating: No

Cottonwood

Percent of map unit: 5 percent

Ecological site: R070BC033NM - Salty Bottomland

Hydric soil rating: No

Data Source Information

Soil Survey Area: Eddy Area, New Mexico

Survey Area Data: Version 18, Sep 8, 2022

National Flood Hazard Layer FIRMette



104°7'16"W 32°34'20"N



Legend

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

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



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

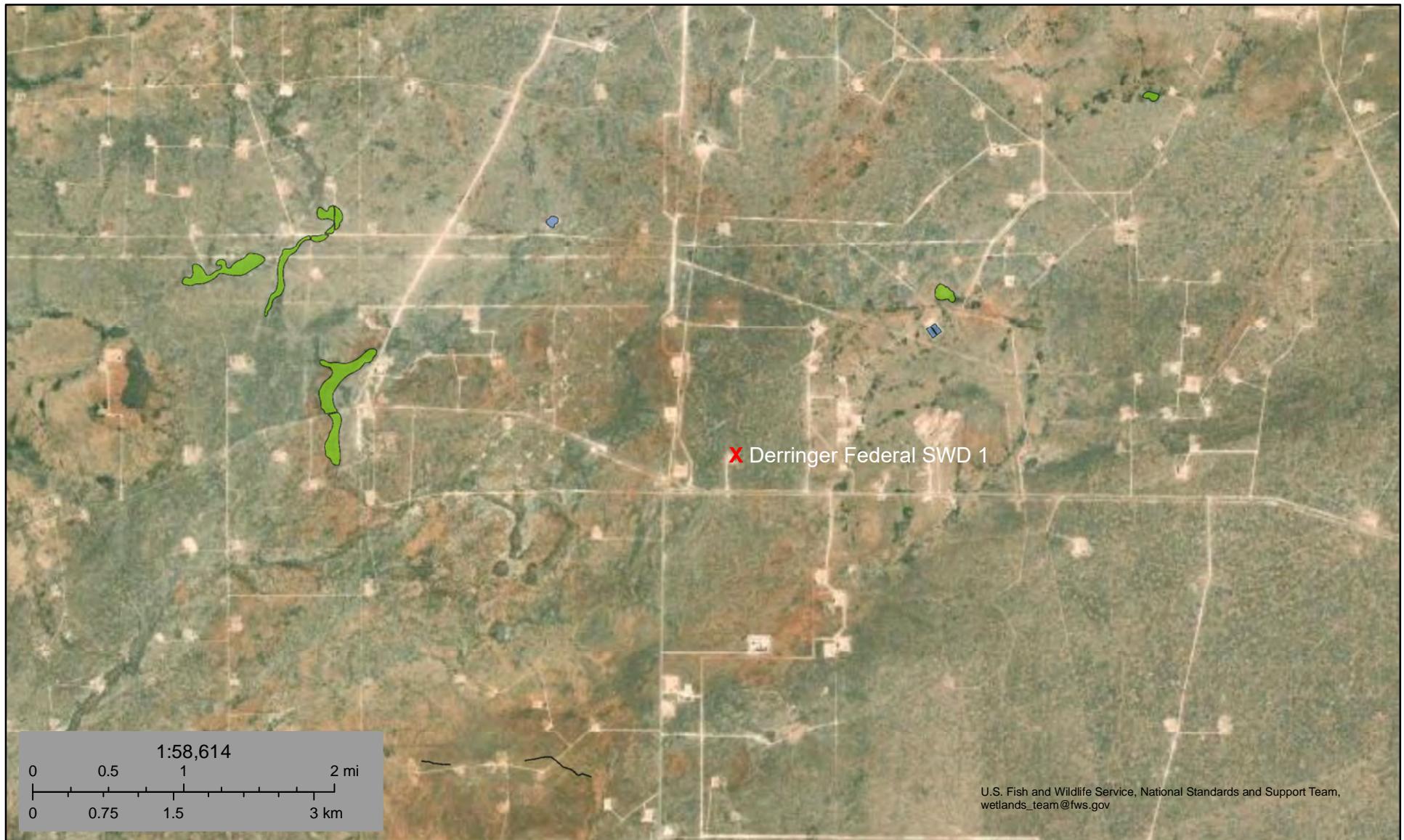
This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 4/26/2023 at 11:43 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.



Wetlands Map



April 26, 2023

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond

- Lake
- Other
- Riverine

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



Pima Environmental Services

Appendix C

C-141 Form

48-Hour Notification

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	NAPP2310456005
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	Mewbourne Oil Company	OGRID	14744
Contact Name	Connor Walker	Contact Telephone	806-202-5281
Contact email	cwalker@mewbourne.com	Incident # (assigned by OCD)	nAPP2310456005
Contact mailing address	4801 Business Park Blvd, Hobbs, NM 88240		

Location of Release Source

Latitude 32.568079 _____ Longitude -104.115857 _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Derringer Federal SWD #1	Site Type Battery
Date Release Discovered 4/03/2023	API# (if applicable) 30-015-30828

Unit Letter	Section	Township	Range	County
N	18	20S	29E	Eddy

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

Nature and Volume of Release

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


<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 32	Volume Recovered (bbls) 0
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Release Tank overflowed.		

Incident ID	NAPP2310456005
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? The release was greater than 25 bbls.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Notice was given by Connor Walker to ocd.enviro@state.nm.us on 04/04/23 @ 4:03 PM MDT via email.	

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why: 	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Connor Walker</u>	Title: <u>Sr. Engineer</u>
Signature: 	Date: <u>4/12/2023</u>
email: <u>cwalker@mewbourne.com</u>	Telephone: <u>806-202-5281</u>
<u>OCD Only</u>	
Received by: <u>Jocelyn Harimon</u>	Date: <u>04/17/2023</u>

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 208027

CONDITIONS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 208027
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	4/17/2023

Incident ID	NAPP2310456005
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	<u><50</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

Characterization Report Checklist: *Each of the following items must be included in the report.*

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☒ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

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

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	NAPP2310456005
District RP	
Facility ID	
Application ID	

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: Conner Walker Title: Sr. Engineer

Signature: _____ Date: _____

email: cwalker@mewbourne.com Telephone: 806-202-5281**OCD Only**Received by: Jocelyn Harimon Date: 06/06/2023

Incident ID	NAPP2310456005
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

Printed Name: Connor Walker Title: Sr. Engineer

Signature:  Date: 6/6/2023

email: cwalker@mewbourne.com Telephone: 806-202-5281

OCD Only

Received by: Jocelyn Harimon Date: 06/06/2023

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____



Gio PimaOil <gio@pimaoil.com>

Confirmation of Derringer Sampling NAPP2310456005

1 message

Gio PimaOil <gio@pimaoil.com>

Wed, Apr 19, 2023 at 10:55 AM

To: ocdonline@state.nm.us, Tom Pima Oil <tom@pimaoil.com>

Good Morning,

Pima Environmental would like to notify you that we will begin collecting confirmation samples at the Derringer Fed SWD 1 for incident NAPP2310456005. Pima personnel are scheduled to be on site for this sampling event at approximately 8:00 a.m. on Friday, April 21, 2023. If you have any questions, please let me know. Thank you.

--

Gio Gomez

Project Manager

cell-806-782-1151

Office- 575-964-7740

Pima Environmental Services, LLC.



Gio PimaOil <gio@pimaoil.com>

Liner Inspection Derringer Fed SWD 1

1 message

Gio PimaOil <gio@pimaoil.com>

Fri, Apr 28, 2023 at 10:14 AM

To: ocdonline@state.nm.us, Tom Pima Oil <tom@pimaoil.com>

*Good Morning,
Pima Environmental would like to notify you that we will be conducting a liner Inspection at the Derringer Fed SWD 1 for the incident NAPP2310456005. Pima personnel are scheduled to be on site for this Inspection event at approximately 11:00 a.m. On Sunday, April 30, 2023. If you have any questions or concerns, please let me know. Thank you*

--
Gio Gomez
Project Manager
cell-806-782-1151
Office- 575-964-7740
Pima Environmental Services, LLC.



Pima Environmental Services

Appendix D

Photographic Documentation



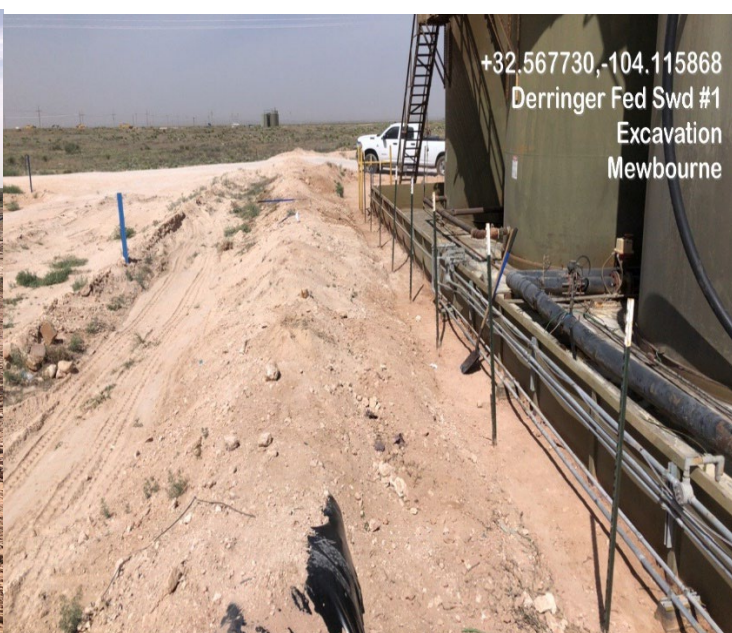
SITE PHOTOGRAPHS
MEWBOURNE OIL COMPANY
DERRINGER FEDERAL SWD 1

Site Assessment





Excavation





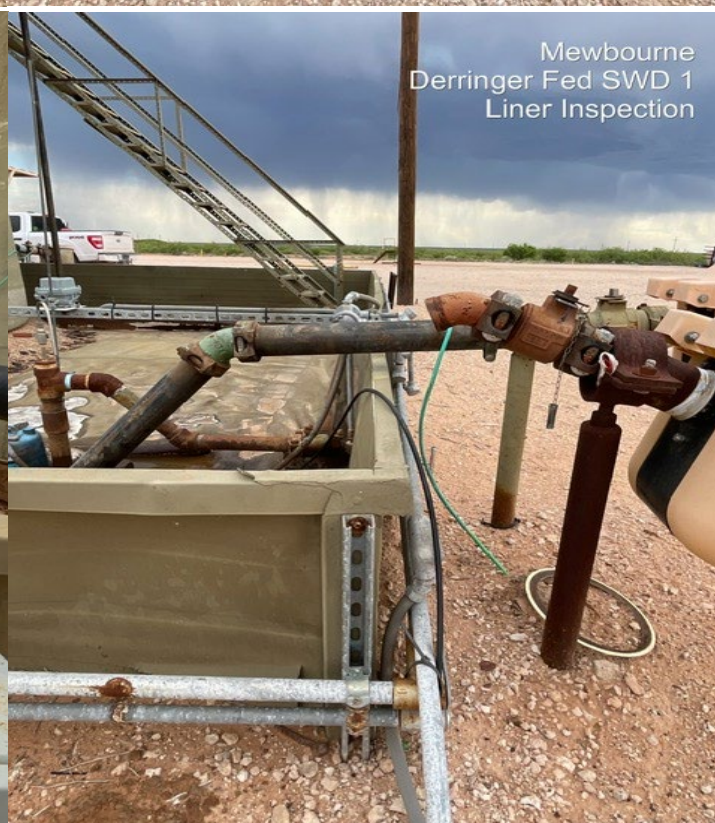
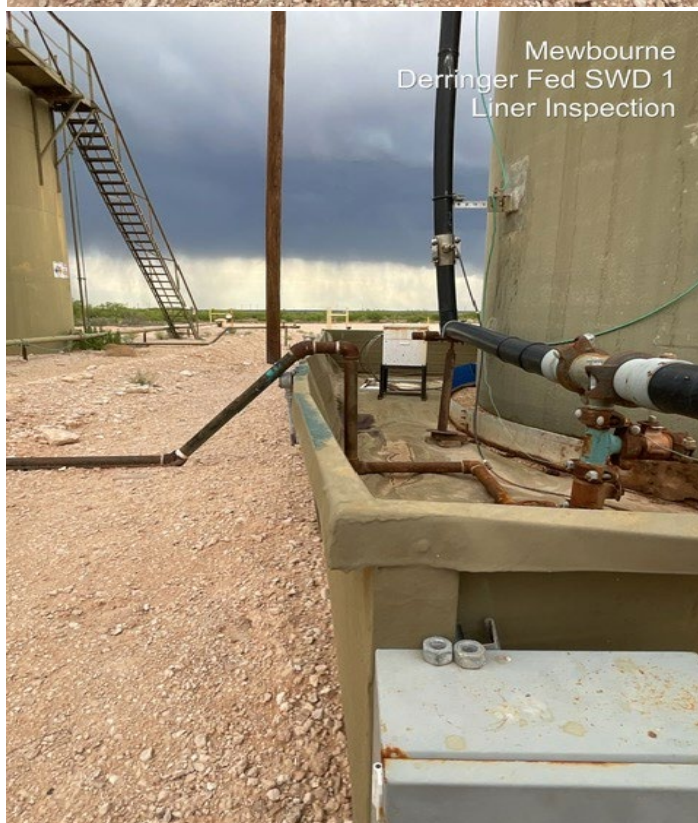
Post Excavation





Liner Inspection







Pima Environmental Services

Appendix E

Laboratory Reports



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

April 26, 2023

TOM BYNUM

PIMA ENVIROMENTAL

1601 N TURNER STE. 500

HOBBS, NM 88240

RE: DERRINGER FED SWD 1

Enclosed are the results of analyses for samples received by the laboratory on 04/20/23 14:47.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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:

PIMA ENVIROMENTAL
TOM BYNUM
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 04/20/2023
Reported: 04/26/2023
Project Name: DERRINGER FED SWD 1
Project Number: 12-241
Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 04/18/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S 1 - 1' (H231936-01)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/25/2023	ND	1.73	86.7	2.00	4.50	
Toluene*	<0.050	0.050	04/25/2023	ND	1.88	94.0	2.00	4.51	
Ethylbenzene*	<0.050	0.050	04/25/2023	ND	1.99	99.4	2.00	4.65	
Total Xylenes*	<0.150	0.150	04/25/2023	ND	6.17	103	6.00	3.95	
Total BTEX	<0.300	0.300	04/25/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	720	16.0	04/24/2023	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/25/2023	ND	194	96.8	200	0.577	
DRO >C10-C28*	<10.0	10.0	04/25/2023	ND	208	104	200	0.886	
EXT DRO >C28-C36	<10.0	10.0	04/25/2023	ND					

Surrogate: 1-Chlorooctane 84.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PIMA ENVIROMENTAL
TOM BYNUM
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 04/20/2023
Reported: 04/26/2023
Project Name: DERRINGER FED SWD 1
Project Number: 12-241
Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 04/18/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S 1 - 2' (H231936-02)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/25/2023	ND	1.73	86.7	2.00	4.50	
Toluene*	<0.050	0.050	04/25/2023	ND	1.88	94.0	2.00	4.51	
Ethylbenzene*	<0.050	0.050	04/25/2023	ND	1.99	99.4	2.00	4.65	
Total Xylenes*	<0.150	0.150	04/25/2023	ND	6.17	103	6.00	3.95	
Total BTEx	<0.300	0.300	04/25/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/24/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/25/2023	ND	194	96.8	200	0.577	
DRO >C10-C28*	<10.0	10.0	04/25/2023	ND	208	104	200	0.886	
EXT DRO >C28-C36	<10.0	10.0	04/25/2023	ND					

Surrogate: 1-Chlorooctane 85.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PIMA ENVIROMENTAL
TOM BYNUM
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 04/20/2023
Reported: 04/26/2023
Project Name: DERRINGER FED SWD 1
Project Number: 12-241
Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 04/18/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S 2 - 1' (H231936-03)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/26/2023	ND	1.73	86.7	2.00	4.50	
Toluene*	<0.050	0.050	04/26/2023	ND	1.88	94.0	2.00	4.51	
Ethylbenzene*	<0.050	0.050	04/26/2023	ND	1.99	99.4	2.00	4.65	
Total Xylenes*	<0.150	0.150	04/26/2023	ND	6.17	103	6.00	3.95	
Total BTX	<0.300	0.300	04/26/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	04/24/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/25/2023	ND	194	96.8	200	0.577	
DRO >C10-C28*	145	10.0	04/25/2023	ND	208	104	200	0.886	
EXT DRO >C28-C36	21.9	10.0	04/25/2023	ND					

Surrogate: 1-Chlorooctane 86.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PIMA ENVIROMENTAL
TOM BYNUM
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 04/20/2023
Reported: 04/26/2023
Project Name: DERRINGER FED SWD 1
Project Number: 12-241
Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 04/18/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S 2 - 2' (H231936-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/26/2023	ND	1.73	86.7	2.00	4.50		
Toluene*	<0.050	0.050	04/26/2023	ND	1.88	94.0	2.00	4.51		
Ethylbenzene*	<0.050	0.050	04/26/2023	ND	1.99	99.4	2.00	4.65		
Total Xylenes*	<0.150	0.150	04/26/2023	ND	6.17	103	6.00	3.95		
Total BTEx	<0.300	0.300	04/26/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/24/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/25/2023	ND	194	96.8	200	0.577	
DRO >C10-C28*	<10.0	10.0	04/25/2023	ND	208	104	200	0.886	
EXT DRO >C28-C36	<10.0	10.0	04/25/2023	ND					

Surrogate: 1-Chlorooctane 83.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PIMA ENVIROMENTAL
TOM BYNUM
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 04/20/2023
Reported: 04/26/2023
Project Name: DERRINGER FED SWD 1
Project Number: 12-241
Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 04/18/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S 3 - 1' (H231936-05)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/26/2023	ND	1.73	86.7	2.00	4.50	
Toluene*	<0.050	0.050	04/26/2023	ND	1.88	94.0	2.00	4.51	
Ethylbenzene*	<0.050	0.050	04/26/2023	ND	1.99	99.4	2.00	4.65	
Total Xylenes*	<0.150	0.150	04/26/2023	ND	6.17	103	6.00	3.95	
Total BTX	<0.300	0.300	04/26/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	04/24/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/25/2023	ND	194	96.8	200	0.577	
DRO >C10-C28*	397	10.0	04/25/2023	ND	208	104	200	0.886	
EXT DRO >C28-C36	73.9	10.0	04/25/2023	ND					

Surrogate: 1-Chlorooctane 84.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PIMA ENVIROMENTAL
TOM BYNUM
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 04/20/2023
Reported: 04/26/2023
Project Name: DERRINGER FED SWD 1
Project Number: 12-241
Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 04/18/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S 3 - 2' (H231936-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/26/2023	ND	1.73	86.7	2.00	4.50		
Toluene*	<0.050	0.050	04/26/2023	ND	1.88	94.0	2.00	4.51		
Ethylbenzene*	<0.050	0.050	04/26/2023	ND	1.99	99.4	2.00	4.65		
Total Xylenes*	<0.150	0.150	04/26/2023	ND	6.17	103	6.00	3.95		
Total BTEx	<0.300	0.300	04/26/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/24/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/25/2023	ND	194	96.8	200	0.577	
DRO >C10-C28*	<10.0	10.0	04/25/2023	ND	208	104	200	0.886	
EXT DRO >C28-C36	<10.0	10.0	04/25/2023	ND					

Surrogate: 1-Chlorooctane 84.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PIMA ENVIROMENTAL
TOM BYNUM
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 04/20/2023
Reported: 04/26/2023
Project Name: DERRINGER FED SWD 1
Project Number: 12-241
Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 04/18/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S 4 - 1' (H231936-07)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/26/2023	ND	1.73	86.7	2.00	4.50		
Toluene*	<0.050	0.050	04/26/2023	ND	1.88	94.0	2.00	4.51		
Ethylbenzene*	<0.050	0.050	04/26/2023	ND	1.99	99.4	2.00	4.65		
Total Xylenes*	<0.150	0.150	04/26/2023	ND	6.17	103	6.00	3.95		
Total BTX	<0.300	0.300	04/26/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4930	16.0	04/24/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/25/2023	ND	194	96.8	200	0.577	
DRO >C10-C28*	76.9	10.0	04/25/2023	ND	208	104	200	0.886	
EXT DRO >C28-C36	10.9	10.0	04/25/2023	ND					

Surrogate: 1-Chlorooctane 84.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PIMA ENVIROMENTAL
TOM BYNUM
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 04/20/2023
Reported: 04/26/2023
Project Name: DERRINGER FED SWD 1
Project Number: 12-241
Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 04/18/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S 4 - 2' (H231936-08)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/26/2023	ND	1.73	86.7	2.00	4.50	
Toluene*	<0.050	0.050	04/26/2023	ND	1.88	94.0	2.00	4.51	
Ethylbenzene*	<0.050	0.050	04/26/2023	ND	1.99	99.4	2.00	4.65	
Total Xylenes*	<0.150	0.150	04/26/2023	ND	6.17	103	6.00	3.95	
Total BTX	<0.300	0.300	04/26/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/24/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/25/2023	ND	219	109	200	2.20	
DRO >C10-C28*	<10.0	10.0	04/25/2023	ND	199	99.6	200	0.191	
EXT DRO >C28-C36	<10.0	10.0	04/25/2023	ND					

Surrogate: 1-Chlorooctane 94.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PIMA ENVIROMENTAL
TOM BYNUM
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 04/20/2023
Reported: 04/26/2023
Project Name: DERRINGER FED SWD 1
Project Number: 12-241
Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 04/18/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S 5 - 1' (H231936-09)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/26/2023	ND	1.73	86.7	2.00	4.50	
Toluene*	<0.050	0.050	04/26/2023	ND	1.88	94.0	2.00	4.51	
Ethylbenzene*	<0.050	0.050	04/26/2023	ND	1.99	99.4	2.00	4.65	
Total Xylenes*	<0.150	0.150	04/26/2023	ND	6.17	103	6.00	3.95	
Total BTX	<0.300	0.300	04/26/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2880	16.0	04/24/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/25/2023	ND	219	109	200	2.20	
DRO >C10-C28*	451	10.0	04/25/2023	ND	199	99.6	200	0.191	
EXT DRO >C28-C36	91.9	10.0	04/25/2023	ND					

Surrogate: 1-Chlorooctane 91.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PIMA ENVIROMENTAL
TOM BYNUM
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 04/20/2023
Reported: 04/26/2023
Project Name: DERRINGER FED SWD 1
Project Number: 12-241
Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 04/18/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S 5 - 2' (H231936-10)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/26/2023	ND	1.73	86.7	2.00	4.50	
Toluene*	<0.050	0.050	04/26/2023	ND	1.88	94.0	2.00	4.51	
Ethylbenzene*	<0.050	0.050	04/26/2023	ND	1.99	99.4	2.00	4.65	
Total Xylenes*	<0.150	0.150	04/26/2023	ND	6.17	103	6.00	3.95	
Total BTX	<0.300	0.300	04/26/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	04/24/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/25/2023	ND	219	109	200	2.20	
DRO >C10-C28*	<10.0	10.0	04/25/2023	ND	199	99.6	200	0.191	
EXT DRO >C28-C36	<10.0	10.0	04/25/2023	ND					

Surrogate: 1-Chlorooctane 90.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 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 cursive script, appearing to read "Celey D. Keene", written in black ink.

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

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Relinquished By: <i>[Signature]</i> Date: <i>4-20-23</i> Time: <i>1447</i>		Received By: <i>[Signature]</i> Date: _____ Time: _____		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: _____ All Results are emailed. Please provide Email address: _____	
Relinquished By: _____ Date: _____ Time: _____		Received By: _____ Date: _____ Time: _____		REMARKS: _____ _____ _____	
Delivered By: (Circle One) Sampler - UPS - Bus - Other: _____		Observed Temp. °C <i>-14.0</i> Corrected Temp. °C <i>-14.6</i>		Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> <input type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No	
		CHECKED BY: (Initials) <i>[Signature]</i>		Turnaround Time: _____ Standard <i>Rush</i> <input checked="" type="checkbox"/> Thermometer ID #113 Correction Factor -0.5°C	
				Bacteria (only) Sample Condition Cool Intact Observed Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No Corrected Temp. °C	

FORM-006 R 3.2 10/07/21

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



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

April 26, 2023

TOM BYNUM

PIMA ENVIROMENTAL

1601 N TURNER STE. 500

HOBBS, NM 88240

RE: DERRINGER FED SWD 1

Enclosed are the results of analyses for samples received by the laboratory on 04/25/23 8:03.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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:

PIMA ENVIROMENTAL
TOM BYNUM
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 04/25/2023
Reported: 04/26/2023
Project Name: DERRINGER FED SWD 1
Project Number: 12-241
Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 04/21/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: CS - 1 (H231995-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/25/2023	ND	1.85	92.7	2.00	1.15	
Toluene*	<0.050	0.050	04/25/2023	ND	1.97	98.5	2.00	1.61	
Ethylbenzene*	<0.050	0.050	04/25/2023	ND	2.06	103	2.00	2.11	
Total Xylenes*	<0.150	0.150	04/25/2023	ND	6.29	105	6.00	3.06	
Total BTX	<0.300	0.300	04/25/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/25/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/25/2023	ND	219	109	200	2.20	
DRO >C10-C28*	<10.0	10.0	04/25/2023	ND	199	99.6	200	0.191	
EXT DRO >C28-C36	<10.0	10.0	04/25/2023	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PIMA ENVIROMENTAL
TOM BYNUM
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 04/25/2023
Reported: 04/26/2023
Project Name: DERRINGER FED SWD 1
Project Number: 12-241
Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 04/21/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: CS - 2 (H231995-02)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/25/2023	ND	1.85	92.7	2.00	1.15		
Toluene*	<0.050	0.050	04/25/2023	ND	1.97	98.5	2.00	1.61		
Ethylbenzene*	<0.050	0.050	04/25/2023	ND	2.06	103	2.00	2.11		
Total Xylenes*	<0.150	0.150	04/25/2023	ND	6.29	105	6.00	3.06		
Total BTX	<0.300	0.300	04/25/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/25/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/25/2023	ND	219	109	200	2.20	
DRO >C10-C28*	<10.0	10.0	04/25/2023	ND	199	99.6	200	0.191	
EXT DRO >C28-C36	<10.0	10.0	04/25/2023	ND					

Surrogate: 1-Chlorooctane 95.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PIMA ENVIROMENTAL
TOM BYNUM
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 04/25/2023
Reported: 04/26/2023
Project Name: DERRINGER FED SWD 1
Project Number: 12-241
Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 04/21/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: CS - 3 (H231995-03)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/25/2023	ND	1.85	92.7	2.00	1.15		
Toluene*	<0.050	0.050	04/25/2023	ND	1.97	98.5	2.00	1.61		
Ethylbenzene*	<0.050	0.050	04/25/2023	ND	2.06	103	2.00	2.11		
Total Xylenes*	<0.150	0.150	04/25/2023	ND	6.29	105	6.00	3.06		
Total BTX	<0.300	0.300	04/25/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	04/25/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/25/2023	ND	219	109	200	2.20	
DRO >C10-C28*	<10.0	10.0	04/25/2023	ND	199	99.6	200	0.191	
EXT DRO >C28-C36	<10.0	10.0	04/25/2023	ND					

Surrogate: 1-Chlorooctane 97.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PIMA ENVIROMENTAL
TOM BYNUM
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 04/25/2023
Reported: 04/26/2023
Project Name: DERRINGER FED SWD 1
Project Number: 12-241
Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 04/21/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: CS - 4 (H231995-04)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/25/2023	ND	1.85	92.7	2.00	1.15		
Toluene*	<0.050	0.050	04/25/2023	ND	1.97	98.5	2.00	1.61		
Ethylbenzene*	<0.050	0.050	04/25/2023	ND	2.06	103	2.00	2.11		
Total Xylenes*	<0.150	0.150	04/25/2023	ND	6.29	105	6.00	3.06		
Total BTEX	<0.300	0.300	04/25/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/25/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/25/2023	ND	219	109	200	2.20	
DRO >C10-C28*	<10.0	10.0	04/25/2023	ND	199	99.6	200	0.191	
EXT DRO >C28-C36	<10.0	10.0	04/25/2023	ND					

Surrogate: 1-Chlorooctane 98.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PIMA ENVIROMENTAL
TOM BYNUM
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 04/25/2023
Reported: 04/26/2023
Project Name: DERRINGER FED SWD 1
Project Number: 12-241
Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 04/21/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: CS - 5 (H231995-05)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/25/2023	ND	1.85	92.7	2.00	1.15		
Toluene*	<0.050	0.050	04/25/2023	ND	1.97	98.5	2.00	1.61		
Ethylbenzene*	<0.050	0.050	04/25/2023	ND	2.06	103	2.00	2.11		
Total Xylenes*	<0.150	0.150	04/25/2023	ND	6.29	105	6.00	3.06		
Total BTX	<0.300	0.300	04/25/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/25/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/25/2023	ND	219	109	200	2.20	
DRO >C10-C28*	<10.0	10.0	04/25/2023	ND	199	99.6	200	0.191	
EXT DRO >C28-C36	<10.0	10.0	04/25/2023	ND					

Surrogate: 1-Chlorooctane 99.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PIMA ENVIROMENTAL
TOM BYNUM
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 04/25/2023
Reported: 04/26/2023
Project Name: DERRINGER FED SWD 1
Project Number: 12-241
Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 04/21/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: CS - 6 (H231995-06)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/25/2023	ND	1.85	92.7	2.00	1.15		
Toluene*	<0.050	0.050	04/25/2023	ND	1.97	98.5	2.00	1.61		
Ethylbenzene*	<0.050	0.050	04/25/2023	ND	2.06	103	2.00	2.11		
Total Xylenes*	<0.150	0.150	04/25/2023	ND	6.29	105	6.00	3.06		
Total BTX	<0.300	0.300	04/25/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/25/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/25/2023	ND	219	109	200	2.20	
DRO >C10-C28*	<10.0	10.0	04/25/2023	ND	199	99.6	200	0.191	
EXT DRO >C28-C36	<10.0	10.0	04/25/2023	ND					

Surrogate: 1-Chlorooctane 95.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Analytical Results For:

PIMA ENVIROMENTAL
TOM BYNUM
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 04/25/2023
Reported: 04/26/2023
Project Name: DERRINGER FED SWD 1
Project Number: 12-241
Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 04/21/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: CS - 7 (H231995-07)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/25/2023	ND	1.85	92.7	2.00	1.15		
Toluene*	<0.050	0.050	04/25/2023	ND	1.97	98.5	2.00	1.61		
Ethylbenzene*	<0.050	0.050	04/25/2023	ND	2.06	103	2.00	2.11		
Total Xylenes*	<0.150	0.150	04/25/2023	ND	6.29	105	6.00	3.06		
Total BTEx	<0.300	0.300	04/25/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/25/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/25/2023	ND	219	109	200	2.20	
DRO >C10-C28*	<10.0	10.0	04/25/2023	ND	199	99.6	200	0.191	
EXT DRO >C28-C36	<10.0	10.0	04/25/2023	ND					

Surrogate: 1-Chlorooctane 92.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PIMA ENVIROMENTAL
TOM BYNUM
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 04/25/2023
Reported: 04/26/2023
Project Name: DERRINGER FED SWD 1
Project Number: 12-241
Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 04/21/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: CSW - 1 (H231995-08)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/25/2023	ND	1.85	92.7	2.00	1.15	
Toluene*	<0.050	0.050	04/25/2023	ND	1.97	98.5	2.00	1.61	
Ethylbenzene*	<0.050	0.050	04/25/2023	ND	2.06	103	2.00	2.11	
Total Xylenes*	<0.150	0.150	04/25/2023	ND	6.29	105	6.00	3.06	
Total BTEX	<0.300	0.300	04/25/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	04/25/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/25/2023	ND	219	109	200	2.20	
DRO >C10-C28*	<10.0	10.0	04/25/2023	ND	199	99.6	200	0.191	
EXT DRO >C28-C36	<10.0	10.0	04/25/2023	ND					

Surrogate: 1-Chlorooctane 97.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PIMA ENVIROMENTAL
TOM BYNUM
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 04/25/2023
Reported: 04/26/2023
Project Name: DERRINGER FED SWD 1
Project Number: 12-241
Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 04/21/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: CSW - 2 (H231995-09)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/25/2023	ND	1.85	92.7	2.00	1.15		
Toluene*	<0.050	0.050	04/25/2023	ND	1.97	98.5	2.00	1.61		
Ethylbenzene*	<0.050	0.050	04/25/2023	ND	2.06	103	2.00	2.11		
Total Xylenes*	<0.150	0.150	04/25/2023	ND	6.29	105	6.00	3.06		
Total BTX	<0.300	0.300	04/25/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/25/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/25/2023	ND	219	109	200	2.20	
DRO >C10-C28*	<10.0	10.0	04/25/2023	ND	199	99.6	200	0.191	
EXT DRO >C28-C36	<10.0	10.0	04/25/2023	ND					

Surrogate: 1-Chlorooctane 93.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PIMA ENVIROMENTAL
TOM BYNUM
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 04/25/2023
Reported: 04/26/2023
Project Name: DERRINGER FED SWD 1
Project Number: 12-241
Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 04/21/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: CSW - 3 (H231995-10)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/25/2023	ND	1.85	92.7	2.00	1.15		
Toluene*	<0.050	0.050	04/25/2023	ND	1.97	98.5	2.00	1.61		
Ethylbenzene*	<0.050	0.050	04/25/2023	ND	2.06	103	2.00	2.11		
Total Xylenes*	<0.150	0.150	04/25/2023	ND	6.29	105	6.00	3.06		
Total BTX	<0.300	0.300	04/25/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/25/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/25/2023	ND	219	109	200	2.20	
DRO >C10-C28*	<10.0	10.0	04/25/2023	ND	199	99.6	200	0.191	
EXT DRO >C28-C36	<10.0	10.0	04/25/2023	ND					

Surrogate: 1-Chlorooctane 97.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PIMA ENVIROMENTAL
TOM BYNUM
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 04/25/2023
Reported: 04/26/2023
Project Name: DERRINGER FED SWD 1
Project Number: 12-241
Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 04/21/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: CSW - 4 (H231995-11)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/25/2023	ND	1.85	92.7	2.00	1.15		
Toluene*	<0.050	0.050	04/25/2023	ND	1.97	98.5	2.00	1.61		
Ethylbenzene*	<0.050	0.050	04/25/2023	ND	2.06	103	2.00	2.11		
Total Xylenes*	<0.150	0.150	04/25/2023	ND	6.29	105	6.00	3.06		
Total BTEx	<0.300	0.300	04/25/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/25/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/25/2023	ND	219	109	200	2.20	
DRO >C10-C28*	<10.0	10.0	04/25/2023	ND	199	99.6	200	0.191	
EXT DRO >C28-C36	<10.0	10.0	04/25/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PIMA ENVIROMENTAL
TOM BYNUM
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 04/25/2023
Reported: 04/26/2023
Project Name: DERRINGER FED SWD 1
Project Number: 12-241
Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 04/21/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: CSW - 5 (H231995-12)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/25/2023	ND	1.85	92.7	2.00	1.15		
Toluene*	<0.050	0.050	04/25/2023	ND	1.97	98.5	2.00	1.61		
Ethylbenzene*	<0.050	0.050	04/25/2023	ND	2.06	103	2.00	2.11		
Total Xylenes*	<0.150	0.150	04/25/2023	ND	6.29	105	6.00	3.06		
Total BTEx	<0.300	0.300	04/25/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/25/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/25/2023	ND	219	109	200	2.20	
DRO >C10-C28*	<10.0	10.0	04/25/2023	ND	199	99.6	200	0.191	
EXT DRO >C28-C36	<10.0	10.0	04/25/2023	ND					

Surrogate: 1-Chlorooctane 95.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PIMA ENVIROMENTAL
TOM BYNUM
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 04/25/2023
Reported: 04/26/2023
Project Name: DERRINGER FED SWD 1
Project Number: 12-241
Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 04/21/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: CSW - 6 (H231995-13)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/25/2023	ND	1.85	92.7	2.00	1.15		
Toluene*	<0.050	0.050	04/25/2023	ND	1.97	98.5	2.00	1.61		
Ethylbenzene*	<0.050	0.050	04/25/2023	ND	2.06	103	2.00	2.11		
Total Xylenes*	<0.150	0.150	04/25/2023	ND	6.29	105	6.00	3.06		
Total BTEX	<0.300	0.300	04/25/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/25/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/25/2023	ND	219	109	200	2.20	
DRO >C10-C28*	<10.0	10.0	04/25/2023	ND	199	99.6	200	0.191	
EXT DRO >C28-C36	<10.0	10.0	04/25/2023	ND					

Surrogate: 1-Chlorooctane 93.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PIMA ENVIROMENTAL
TOM BYNUM
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 04/25/2023
Reported: 04/26/2023
Project Name: DERRINGER FED SWD 1
Project Number: 12-241
Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 04/21/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: CSW - 7 (H231995-14)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/25/2023	ND	1.85	92.7	2.00	1.15		
Toluene*	<0.050	0.050	04/25/2023	ND	1.97	98.5	2.00	1.61		
Ethylbenzene*	<0.050	0.050	04/25/2023	ND	2.06	103	2.00	2.11		
Total Xylenes*	<0.150	0.150	04/25/2023	ND	6.29	105	6.00	3.06		
Total BTEx	<0.300	0.300	04/25/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/25/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/25/2023	ND	219	109	200	2.20	
DRO >C10-C28*	<10.0	10.0	04/25/2023	ND	199	99.6	200	0.191	
EXT DRO >C28-C36	<10.0	10.0	04/25/2023	ND					

Surrogate: 1-Chlorooctane 94.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PIMA ENVIROMENTAL
TOM BYNUM
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 04/25/2023
Reported: 04/26/2023
Project Name: DERRINGER FED SWD 1
Project Number: 12-241
Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 04/21/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: CSW - 8 (H231995-15)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/25/2023	ND	1.85	92.7	2.00	1.15		
Toluene*	<0.050	0.050	04/25/2023	ND	1.97	98.5	2.00	1.61		
Ethylbenzene*	<0.050	0.050	04/25/2023	ND	2.06	103	2.00	2.11		
Total Xylenes*	<0.150	0.150	04/25/2023	ND	6.29	105	6.00	3.06		
Total BTX	<0.300	0.300	04/25/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/25/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/25/2023	ND	219	109	200	2.20	
DRO >C10-C28*	<10.0	10.0	04/25/2023	ND	199	99.6	200	0.191	
EXT DRO >C28-C36	<10.0	10.0	04/25/2023	ND					

Surrogate: 1-Chlorooctane 90.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PIMA ENVIROMENTAL
TOM BYNUM
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 04/25/2023
Reported: 04/26/2023
Project Name: DERRINGER FED SWD 1
Project Number: 12-241
Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 04/21/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: CSW - 9 (H231995-16)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/25/2023	ND	1.85	92.7	2.00	1.15		
Toluene*	<0.050	0.050	04/25/2023	ND	1.97	98.5	2.00	1.61		
Ethylbenzene*	<0.050	0.050	04/25/2023	ND	2.06	103	2.00	2.11		
Total Xylenes*	<0.150	0.150	04/25/2023	ND	6.29	105	6.00	3.06		
Total BTX	<0.300	0.300	04/25/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/25/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/25/2023	ND	219	109	200	2.20	
DRO >C10-C28*	<10.0	10.0	04/25/2023	ND	199	99.6	200	0.191	
EXT DRO >C28-C36	<10.0	10.0	04/25/2023	ND					

Surrogate: 1-Chlorooctane 95.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

PIMA ENVIROMENTAL
TOM BYNUM
1601 N TURNER STE. 500
HOBBS NM, 88240
Fax To:

Received: 04/25/2023
Reported: 04/26/2023
Project Name: DERRINGER FED SWD 1
Project Number: 12-241
Project Location: MEWBOURNE - EDDY CO NM

Sampling Date: 04/21/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: CSW - 10 (H231995-17)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/25/2023	ND	1.85	92.7	2.00	1.15		
Toluene*	<0.050	0.050	04/25/2023	ND	1.97	98.5	2.00	1.61		
Ethylbenzene*	<0.050	0.050	04/25/2023	ND	2.06	103	2.00	2.11		
Total Xylenes*	<0.150	0.150	04/25/2023	ND	6.29	105	6.00	3.06		
Total BTEx	<0.300	0.300	04/25/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/25/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/25/2023	ND	219	109	200	2.20	
DRO >C10-C28*	<10.0	10.0	04/25/2023	ND	199	99.6	200	0.191	
EXT DRO >C28-C36	<10.0	10.0	04/25/2023	ND					

Surrogate: 1-Chlorooctane 94.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

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

Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Pima Environmental Services				BILL TO				ANALYSIS REQUEST																		
Project Manager: GIO Gomez				P.O. #:																						
Address: 5614 N. Lovington Hwy				Company: Mewbourne																						
City: Hobbs State: NM Zip: 88240				Attn:																						
Phone #: 575-964-7740 Fax #:				Address:																						
Project #: 12-241 Project Owner:				City:																						
Project Name:				State: Zip:																						
Project Location: Derringer Fed SWD 1				Phone #:																						
Sampler Name:				Fax #:																						
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING																		
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	<div style="display: flex; justify-content: space-between;"> <div>Chlorides</div> <div>TPH</div> <div>BTEX</div> </div>											
H231995													4/2/13	8:00												
1	CS-1													8:05												
2	CS-2													8:10												
3	CS-3													8:15												
4	CS-4													8:20												
5	CS-5													8:25												
6	CS-6													8:30												
7	CS-7													8:35												
8	CSW-6													8:40												
9	CSW-2													8:45												
10	CSW-3																									

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Relinquished By: Karime Adams		Date: 4/2/13	Received By: S. Rodriguez		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
Relinquished By:		Time: 0803	Received By:		All Results are emailed. Please provide Email address:	
Relinquished By:		Date: 4/2/13	Received By:		REMARKS:	
Relinquished By:		Time:	Received By:		REMARKS:	
Delivered By: (Circle One)	Observed Temp. °C -11.0	Sample Condition	CHECKED BY: (Initials) SR	Turnaround Time: Standard	Bacteria (only) Sample Condition	
Sampler - UPS - Bus - Other:	Corrected Temp. °C -11.6	Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Rush	Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
				Thermometer ID #113	Observed Temp. °C	
				Correction Factor -0.5°C	Corrected Temp. °C	

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Pima Environmental Services				BILL TO				ANALYSIS REQUEST																			
Project Manager: Gio Gomez				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chlorides</div> <div>TPH</div> <div>BTEX</div> </div>																			
Address: 5614 N. Lovington Hwy				Company: Mewbourne																							
City: Hobbs State: NM Zip: 88240				Attn:																							
Phone #: 575-964-7740 Fax #:				Address:																							
Project #: 12-241 Project Owner:				City:																							
Project Name:				State: Zip:																							
Project Location: Perringer Fed SWD1				Phone #:																							
Sampler Name:				Fax #:																							
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING																			
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME													
H231995																											
11	CSW-4	X								X			4/2/13	9:50	X	X	X										
12	CSW-5													9:00													
13	CSW-6													9:05													
14	CSW-7													9:10													
15	CSW-8													9:15													
16	CSW-9													9:20													
17	CSW-10													9:25													

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

Relinquished By: Karime Adams		Date: 4/24/23	Received By: Spodriguey		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
Relinquished By:		Time: 0803	Received By:		All Results are emailed. Please provide Email address:	
		Date: 4/25/23			REMARKS:	
		Time:				
Delivered By: (Circle One)	Observed Temp. °C -11.0°C	Sample Condition	CHECKED BY: (Initials) SR	Turnaround Time: Standard	<input type="checkbox"/> Bacteria (only)	Sample Condition
Sampler - UPS - Bus - Other:	Corrected Temp. °C -11.0°C	Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Rush	<input checked="" type="checkbox"/> Cool Intact	Observed Temp. °C
		<input type="checkbox"/> Yes <input type="checkbox"/> No		Thermometer ID #113	<input type="checkbox"/> Yes <input type="checkbox"/> No	Corrected Temp. °C
				Correction Factor -0.5°C	<input type="checkbox"/> No <input type="checkbox"/> No	

FORM-006-R 3.2 10/07/21

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Phone:(575) 393-6161 Fax:(575) 393-0720
District II
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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 224259

CONDITIONS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 224259
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your closure report and final C-141 for Incident #NAPP2310456005 DERRINGER FEDERAL SWD #1, thank you. This closure is approved.	11/3/2023