

Volume calculator

There was no volume calculator prepared when the spill occurred.

Prepared for Devon Energy  
Production, LP

Prepared by Pima Environmental  
Services, LLC



Diamond PWU 22 #1H  
nAB1601139679

Remediation Closure Report

**September 20, 2024**

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

**Re: Site Assessment and Remediation Closure Report**  
**Diamond PWU 22 #1H**  
**API No. 30-015-38334**  
**GPS: Latitude 32.6519089 Longitude -104.0702057**  
**ULSTR - D - 22 - 19S - 29E 575 FNL 330 FWL Eddy County, NM**  
**NMOCD Ref. No. NAB1601139679**

Pima Environmental Services, LLC (Pima) has been contracted by Devon Energy Production Company, LP (Devon) to perform a site assessment and submit this remediation closure report for a crude oil release that occurred at the Diamond PWU 22 #1H (Diamond). The initial C-141 was submitted on January 6, 2015 (Appendix C). This incident was assigned Incident ID NAB1601139679 by the New Mexico Oil Conservation Division (NMOCD).

### **Site Characterization**

The Diamond is located approximately twelve (12) miles southwest of Loco Hills, NM. This spill site is in Unit D, Section 22, Township 19S, Range 29E, Latitude 32.6519089 Longitude -104.0702057, Eddy County, NM. Figure 1 references a Location Map.

Per the New Mexico Bureau of Geology and Mineral Resources, the geology is classified as Older alluvial deposits of upland plains and piedmont areas, and calcic soils and eolian cover sediments of High Plains region (Middle to lower Pleistocene). The soil in this area is made up of Kimbrough-Stegall loams, 0 to 3 percent slopes, eroded according to the United States Department of Agriculture Natural Resources Conservation Service soil survey (Appendix B). The drainage courses in this area are well-drained. There is a high potential for karst geology to be present around the Diamond (Figure 3). A Topographic Map can be referenced in Figure 2.

According to the New Mexico Office of the State Engineer, CP-01932-POD1 shows depth to groundwater in this area is greater than 55 feet below grade surface (bgs). This pod is located approximately 1 mile away from this release area. According to the United States Geological Survey, USGS 323900104052901 19S.29E.20.24111 RATLSNAKE shows depth to groundwater is 67 feet bgs, with the last recorded gauge being from 1983. The closest waterway is a Salt Pond, located approximately 5.46 miles to the southeast of this location. See Appendix A for referenced water surveys and water-related maps.

### **Release Information**

**nAB1601139679:** On December 23, 2015, the 2-phase separator dump valve was stuck resulting in a half barrel release of oil spray. The well was shut in to prevent further release and the dump valve was rebuilt. The release affected the southeast portion of the engineered pad, the affected area was approximately 10' by 20', into the pasture.

### **Previous Remediation Activities**

Previously this incident was addressed in a combined closure report with 2 other incidents (nAB1914250102, nAB1721657722), which was denied on December 15, 2022. This report can be found in OCD Online: Permitting, under the Application ID: 40011.

This report would like to address this incident, nAB1601139679, individually. A MicroBlaze treatment was performed by Hungry Horse in April of 2016. Samples were collected on June 6, 2016, that still showed contamination levels to be over the regulatory limits per Table 1 19.15.29.12 NMAC, the less than 50' depth to groundwater criteria. Closure at this time could not be approved. Further documentation of any follow-up to this incident could not be found. The last documented email correspondence was on July 7, 2016, and no other documentation for any aspect of this incident could be found since then. The previously denied Talon closure report from August 4, 2021, did not address this area with sampling.

On August 8, 2024, after Devon submitted a 48-hour notification, Pima Environmental mobilized personnel and equipment to the site to reassess the area around and south of the flare. A hand auger was used to collect samples from 4 different sample points within the release area and 4 sample points from around the edges of the release area. The previous report shows this area to be on and off the pad, but at some point, the pad had been extended, most likely due

to drilling the Diamond PWU 22 #005H. A total of 20 samples were collected from within the release area for vertical delineation. A total of 4 composite samples were collected from the edges of the release area for horizontal delineation. All samples were put on ice, jarred, then prepared for delivery to Envirotech Analytical Laboratories to be analyzed for all constituents listed in Table 1 19.15.29.12 NMAC. The results of this sampling event can be seen in the following data table. A corresponding Site Map of this area and sampling event can be referenced in Figure 4. Complete Laboratory Reports can be found in Appendix E.

#### 8/8/2024 Soil Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50')								
DEVON ENERGY - Diamond PWU 22 1H - nAB1601139679								
Date: 8/8/24		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
F1-Surface	6"	ND	ND	ND	ND	ND	0	ND
F1-1'	1'	ND	ND	ND	ND	ND	0	26.9
F1-2'	2'	ND	ND	ND	ND	ND	0	ND
F1-3'	3'	ND	ND	ND	ND	ND	0	ND
F1-4'	4'	ND	ND	ND	ND	ND	0	ND
F2-Surface	6"	ND	ND	ND	ND	ND	0	ND
F2-1'	1'	ND	ND	ND	ND	ND	0	26
F2-2'	2'	ND	ND	ND	ND	ND	0	20.3
F2-3'	3'	ND	ND	ND	ND	ND	0	ND
F2-4'	4'	ND	ND	ND	ND	ND	0	ND
F3-Surface	6"	ND	ND	ND	ND	ND	0	ND
F3-1'	1'	ND	ND	ND	ND	ND	0	24.9
F3-2'	2'	ND	ND	ND	ND	ND	0	ND
F3-3'	3'	ND	ND	ND	ND	ND	0	ND
F3-4'	4'	ND	ND	ND	ND	ND	0	ND
F4-Surface	6"	ND	ND	ND	ND	ND	0	ND
F4-1'	1'	ND	ND	ND	ND	ND	0	24.5
F4-2'	2'	ND	ND	ND	ND	ND	0	ND
F4-3'	3'	ND	ND	ND	ND	ND	0	ND
F4-4'	4'	ND	ND	ND	ND	ND	0	ND
FSW1-Comp	0-4'	ND	ND	ND	ND	ND	0	ND
FSW2-Comp	0-4'	ND	ND	ND	ND	ND	0	ND
FSW3-Comp	0-4'	ND	ND	ND	ND	ND	0	ND
FSW4-Comp	0-4'	ND	ND	ND	ND	ND	0	ND

#### Countermeasures due to Remediation Closure Report Denied

"The OCD has rejected the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAB1601139679, for the following reasons:

- Remediation closure report denied due to C-141 containing conflicting information with the attached report.
- The remediation plan section of the report includes the answer that "(Ex-situ) Excavation and off-side disposal" was utilized and that R360 ARTESIA LLC LANDFARM [fEEM0112340644] was the OCD approved facility that will be used for off-site disposal. The report, and the work plan that was conditionally approved in 2016, indicates that the release was treated with MicroBlaze. The report does not indicate that soil was excavated.
- Additionally, the soil contamination sampling section of the remediation plan has analytical results that are not consistent with laboratory analytical results included in the approved remediation plan, attached closure report, or any of the previously rejected submittals.
- There are also multiple inconsistencies in the site characterization section of the C-141 that must be corrected prior to approval.
- Correct all applicable areas of the C-141 and resubmit the report by 10/13/2024.

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 377297. Please review and make the required correction(s) prior to resubmitting. If you have any questions why this application was rejected or believe it was rejected in error, please contact me prior to submitting an additional C-141."



Hungry Horse, LLC wrote a work plan for this release on January 30, 2016, which addressed the crude oil-stained soil on and off the pad. The map reference page in this report stated and showed the impacted area to be approximately 20' x 40'." The pictures in this plan report were dated April 1, 2016, which means the MicroBlaze treatment took place on or after this date. This work plan was approved with conditions by the NMOCD on February 19, 2016. The Hungry Horse Plan and NMOCD Correspondence – 2016 can be found in Appendix F.

The incorrect applicable areas of the C-141 will be corrected with the submittal of this new remediation closure report.

The previously submitted closure report by Pima Environmental confirmed that the MicroBlaze-treated area now contains contaminants that are well under the regulatory limits as per the less than 50-foot depth to groundwater section of Table 1 19.15.29.12 NMAC.

### **Closure Request**

Due to analytical levels falling below NMOCD closure criteria, Devon requests that this incident, NAB1601139679, be closed. Devon has complied with the applicable closure requirements set forth in rule 19.15.19.12 NMAC and understands that reclamation of this pad area once it is no longer needed for production or subsequent drilling operations will require an approved reclamation plan addressing a minimum of four feet of non-waste containing earthen material.

Should you have any questions or need additional information, please feel free to contact:  
Devon Energy Production – Dale Woodall at 575-748-0167 or [dale.woodall@dyn.com](mailto:dale.woodall@dyn.com).  
Pima Environmental – Tom Bynum at 580-748-1613 or [tom@pimaoil.com](mailto:tom@pimaoil.com).

### **Attachments**

Figures:

- 1- Location Map
- 2- Topographic Map
- 3- Karst Map
- 4- Site Map

Appendices:

- Appendix A – Referenced Water Surveys & Water-Related Maps
- Appendix B – Soil Survey & Geological Data
- Appendix C – Initial C-141 Form & 48-Hour Notification
- Appendix D – Photographic Documentation
- Appendix E – Laboratory Reports



**Figures:**

1 - Location Map

2 - Topographic Map

3 - Karst Map

4 - Site Map

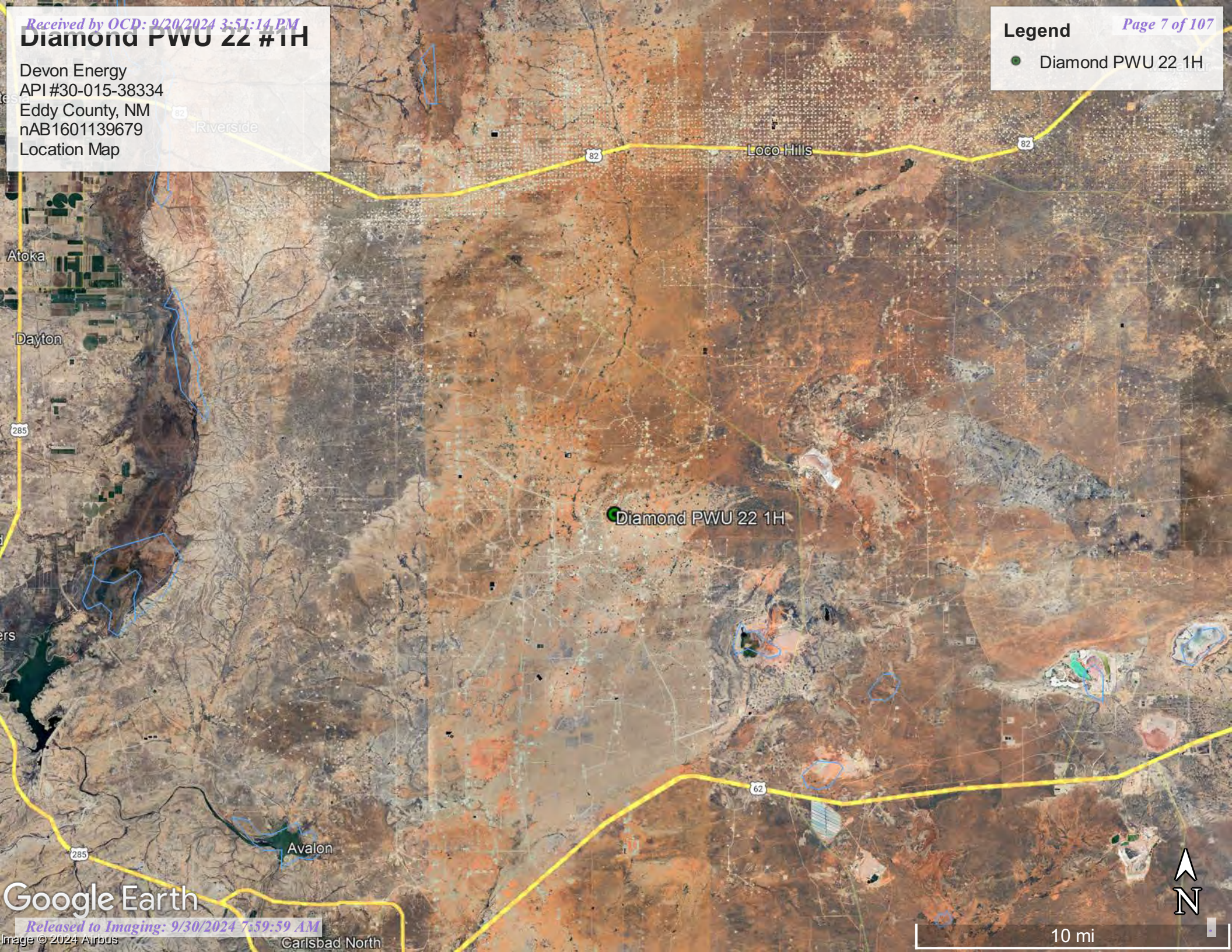


# Diamond PWU 22 #1H

Devon Energy  
API #30-015-38334  
Eddy County, NM  
nAB1601139679  
Location Map

## Legend

● Diamond PWU 22 1H



Google Earth



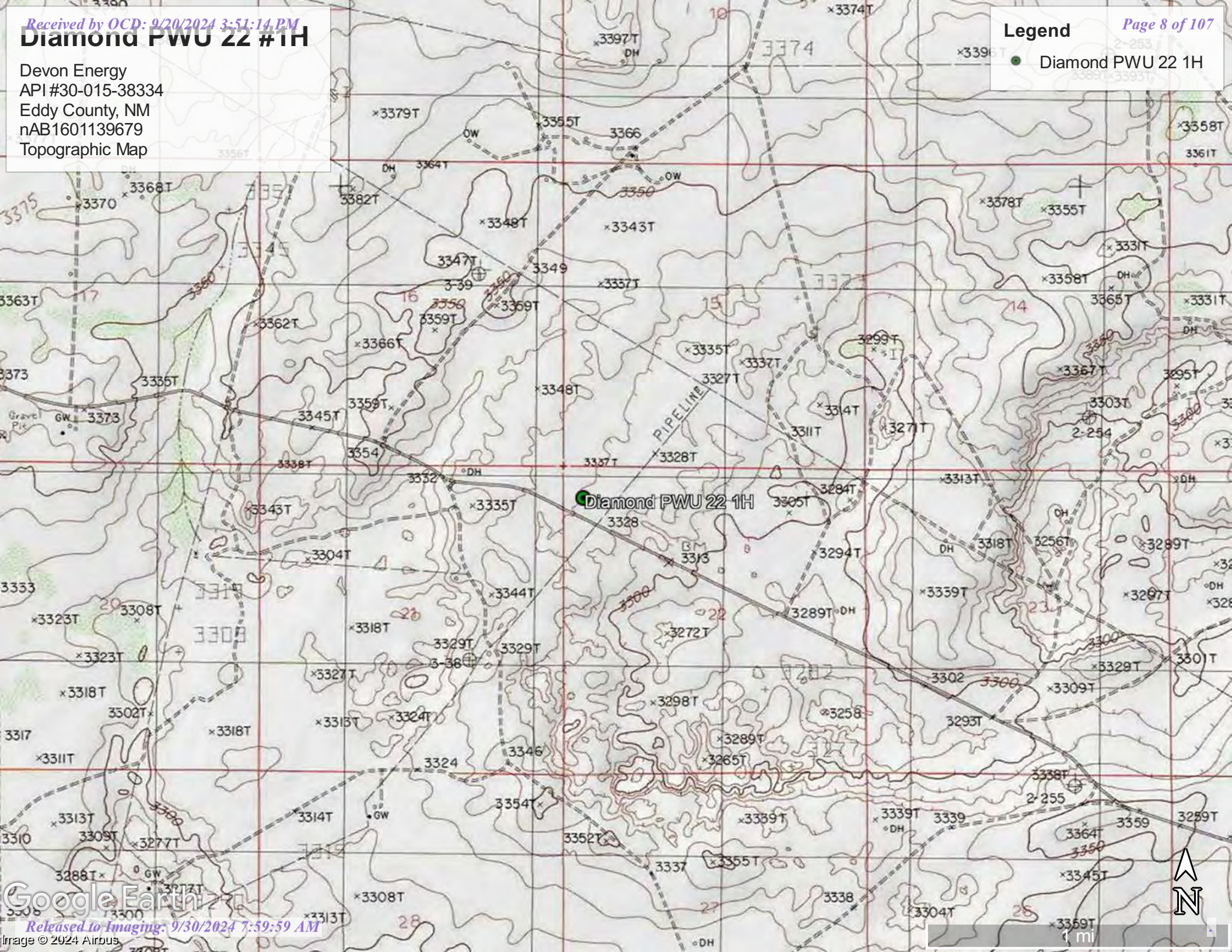
# Diamond PWU 22 #1H

Devon Energy  
API #30-015-38334  
Eddy County, NM  
nAB1601139679  
Topographic Map

Page 8 of 107

Legend

Diamond PWU 22 1H





# Diamond PWU 22 #1H

Devon Energy  
API #30-015-38334  
Eddy County, NM  
nAB1601139679  
Karst Map

Legend

High Karst

Low Karst

Medium Karst

Diamond PWU 22 1H









# Diamond PWU 22 #1H

Devon Energy  
API #30-015-38334  
Eddy County, NM  
nAB1601139679  
Site Map

## Legend

-  Flare area - 800 sqft
-  Horizontal delineation samples
-  Vertical delineation samples

Diamond PWU 22 1H

 32.651955, -104.069833

FSW1  
F1  
F2 FSW2  
F3  
F4  
FSW3  
FSW4







## **Appendix A**

Water Surveys

Water-Related Maps



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 smallest to largest) (meters) (In feet)

POD Number	Code	Sub basin	County	Q64	Q16	Q4	Sec	Tws	Range	X	Y	Map	Distance	Well Depth	Depth Water	Water Column
<a href="#">CP 01932 POD1</a>		CP	ED	SW	NW	NW	27	19S	29E	587173.7	3611427.8		1652	55		
<a href="#">CP 01962 POD1</a>		CP	ED	NE	NE	SE	28	19S	29E	587024.8	3610641.8		2444	53		

Average Depth to Water: 0 feet

Minimum Depth: 0 feet

Maximum Depth: 0 feet

Record Count: 2

Basin/County Search:  
County: ED

UTM Filters (in meters):  
Easting: 587199.46  
Northing: 3613079.77  
Radius: 03000

\* 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.



# WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

[www.ose.state.nm.us](http://www.ose.state.nm.us)

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD-1		WELL TAG ID NO. n/a		OSE FILE NO(S). CP-1932			
	WELL OWNER NAME(S) Devon Energy				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS 6488 7 Rivers Hwy				CITY Artesia	STATE NM	ZIP 88210	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 38	SECONDS 13.22 N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE SW NW NW Sec. 27 T19S, R29E, NMPM								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1249		NAME OF LICENSED DRILLER Jackie D. Atkins			NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc.		
	DRILLING STARTED 12/15/2022	DRILLING ENDED 12/15/2022	DEPTH OF COMPLETED WELL (FT) Soil Boring	BORE HOLE DEPTH (FT) ±55	DEPTH WATER FIRST ENCOUNTERED (FT) n/a			
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) n/a	DATE STATIC MEASURED 12/21/2022		
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Hollow Stem Auger					CHECK HERE IF PITLESS ADAPTER IS INSTALLED <input type="checkbox"/>		
	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	55	6.5"	Soil Boring	--	--	--	--
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						

USE UNTIL DEC 28 2022 PM 2:21

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 01/28/2022)

FILE NO.	CD-1932	POD NO.	1	TRN NO.	738670
LOCATION	19S-29E-27 311	WELL TAG ID NO.	NA	PAGE 1 OF 2	

	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)	
	FROM	TO					
<b>4. HYDROGEOLOGIC LOG OF WELL</b>	0	4	4	Sand, medium/fine grained, poorly graded,with Caliche, Tan	Y    ✓ N		
	4	30	26	Caliche, consolidated, powdery, white	Y    ✓ N		
	30	45	15	Sand, fine grained, poorly graded,with Caliche, Tan	Y    ✓ N		
	45	55	10	Sand, fine grained, poorly graded,with clay stringers, Tan/Brown	Y    ✓ N		
					Y    N		
					Y    N		
					Y    N		
					Y    N		
					Y    N		
					Y    N		
					Y    N		
					Y    N		
					Y    N		
					Y    N		
					Y    N		
					Y    N		
					Y    N		
					Y    N		
	METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER – SPECIFY:					TOTAL ESTIMATED WELL YIELD (gpm):                  0.00	
	<b>5. TEST; RIG SUPERVISION</b>	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.				
MISCELLANEOUS INFORMATION: Removed temporary well material from soil boring, backfilled with drill cutting from total depth to 10 feet below ground surface, then placed hydrated bentonite from 10 feet to ground surface. See attached plugging record.							
PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Shane Eldridge, Cameron Pruitt							
<b>6. SIGNATURE</b>	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:						
	SIGNATURE OF DRILLER / PRINT SIGNEE NAME			DATE			

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 01/28/2022)	
FILE NO.	CP-1932	POD NO.	1
LOCATION	195-296-27 311	TRN NO.	738670
		WELL TAG ID NO.	NY
			PAGE 2 OF 2



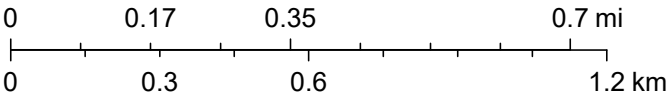
# OSE POD Location Map



8/6/2024, 9:43:08 AM

1:18,056

- GIS WATERS PODs
- Active
  - Pending
  -
- OSE District Boundary
- New Mexico State Trust Lands
- Both Estates
- NHD Flowlines
- Stream River



Esri, HERE, iPC, Esri, HERE, Garmin, iPC, Maxar





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## 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.

Groundwater levels for the Nation

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

### Search Results -- 1 sites found

site\_no list =

- 323900104052901

Minimum number of levels = 1

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

### USGS 323900104052901 19S.29E.20.24111 RATLSNAKE

Available data for this site

Groundwater: Field measurements

GO

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°39'00", Longitude 104°05'29" NAD27

Land-surface elevation 3,306 feet above NAVD88

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

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

#### Output formats

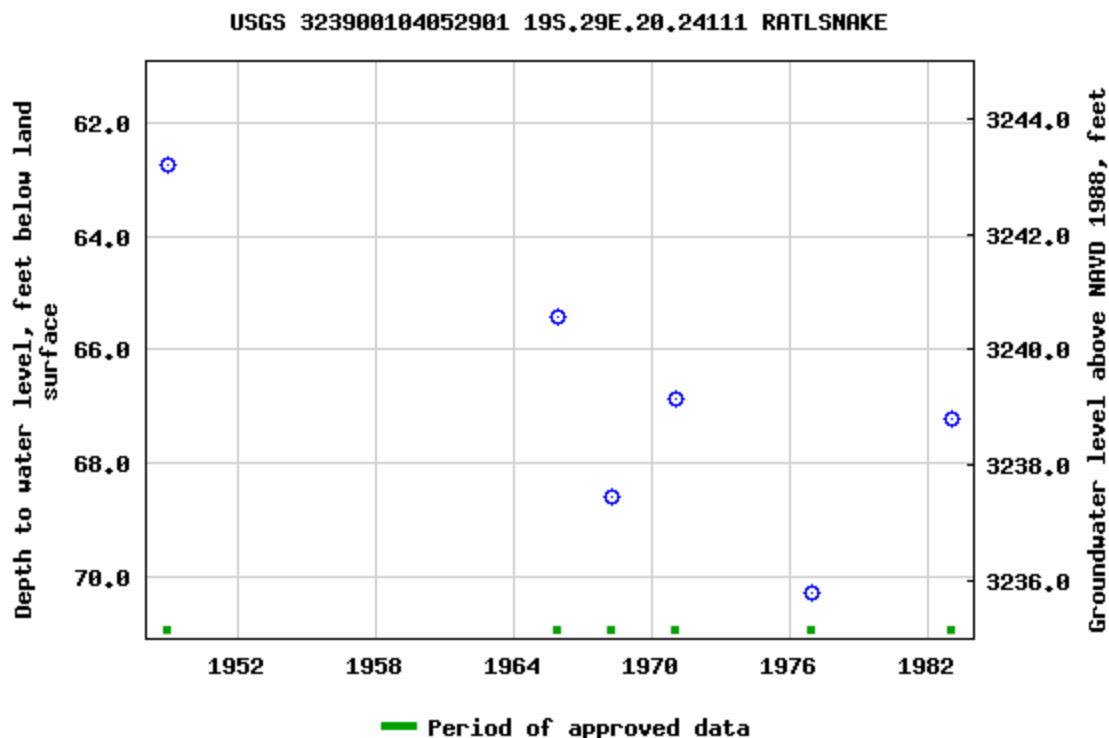
[Table of data](#)

[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: 2024-08-06 10:47:28 EDT

0.53 0.46 nadww02



## National Water Information System: Mapper





# Diamond PWU 22 #1H

Devon Energy  
API #30-015-38334  
Eddy County, NM  
nAB1601139679  
Surface Water Map

Legend

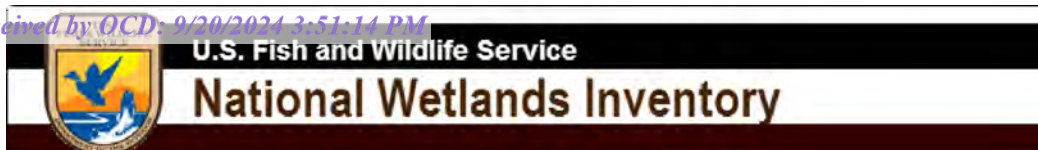
- 5.46 Miles
- Salt Pond

Diamond PWU 22 1H

Salt Pond







## Wetlands Map



August 6, 2024

**Wetlands**

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

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

- Lake
- Other
- Riverine

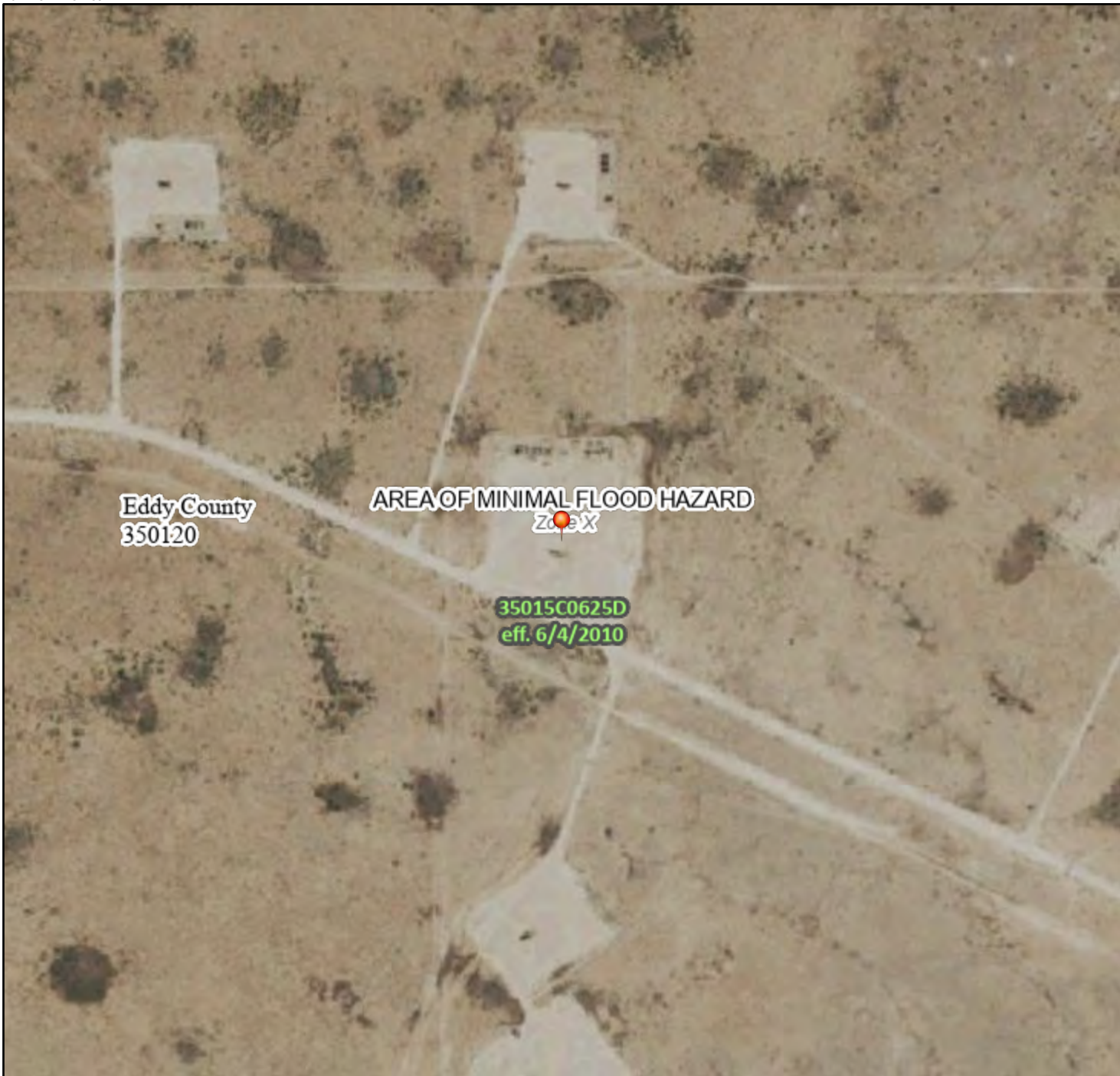
This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.



# National Flood Hazard Layer FIRMette



104°4'31"W 32°39'21"N



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

1:6,000

104°3'54"W 32°38'51"N

Released to Imaging: 9/30/2024 9:39:59 AM

Basemap Imagery Source: USGS National Map 2023

## Legend

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

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



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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 8/6/2024 at 10:51 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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



## **Appendix B**

Soil Survey

Soil Map

Geologic Unit Map



Map Unit Description: Kimbrough-Stegall loams, 0 to 3 percent slopes---Eddy Area, New Mexico

---

## Eddy Area, New Mexico

### KT—Kimbrough-Stegall loams, 0 to 3 percent slopes

#### Map Unit Setting

*National map unit symbol:* 1w4t

*Elevation:* 2,750 to 5,000 feet

*Mean annual precipitation:* 8 to 16 inches

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

*Frost-free period:* 180 to 230 days

*Farmland classification:* Not prime farmland

#### Map Unit Composition

*Kimbrough and similar soils:* 70 percent

*Stegall and similar soils:* 25 percent

*Minor components:* 5 percent

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

#### Description of Kimbrough

##### Setting

*Landform:* Plains, alluvial fans

*Landform position (three-dimensional):* Talf, rise

*Down-slope shape:* Convex, linear

*Across-slope shape:* Linear

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

##### Typical profile

*H1 - 0 to 3 inches:* loam

*H2 - 3 to 9 inches:* loam

*H3 - 9 to 60 inches:* indurated

##### Properties and qualities

*Slope:* 0 to 3 percent

*Depth to restrictive feature:* 8 to 20 inches to petrocalcic

*Drainage class:* Well drained

*Runoff class:* Very 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:* 15 percent

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

*Sodium adsorption ratio, maximum:* 1.0

*Available water supply, 0 to 60 inches:* Very low (about 1.3 inches)

##### Interpretive groups

*Land capability classification (irrigated):* None specified

*Land capability classification (nonirrigated):* 7s

Map Unit Description: Kimbrough-Stegall loams, 0 to 3 percent slopes---Eddy Area, New Mexico

---

*Hydrologic Soil Group:* D  
*Ecological site:* R070BC025NM - Shallow  
*Hydric soil rating:* No

### Description of Stegall

#### Setting

*Landform:* Plains, alluvial fans  
*Landform position (three-dimensional):* Rise  
*Down-slope shape:* Convex, linear  
*Across-slope shape:* Linear  
*Parent material:* Mixed alluvium and/or eolian sands

#### Typical profile

*H1 - 0 to 5 inches:* loam  
*H2 - 5 to 28 inches:* clay loam  
*H3 - 28 to 32 inches:* indurated  
*H4 - 32 to 60 inches:* variable

#### Properties and qualities

*Slope:* 0 to 3 percent  
*Depth to restrictive feature:* 20 to 40 inches to petrocalcic  
*Drainage class:* Well drained  
*Runoff class:* Medium  
*Capacity of the most limiting layer to transmit water (Ksat):* Low to moderately high (0.01 to 0.60 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum content:* 90 percent  
*Maximum salinity:* Nonsaline to slightly saline (0.0 to 4.0 mmhos/cm)  
*Sodium adsorption ratio, maximum:* 1.0  
*Available water supply, 0 to 60 inches:* Low (about 4.8 inches)

#### Interpretive groups

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

### Minor Components

#### Simona

*Percent of map unit:* 5 percent  
*Ecological site:* R070BD002NM - Shallow Sandy  
*Hydric soil rating:* No

## Data Source Information

Soil Survey Area: Eddy Area, New Mexico  
Survey Area Data: Version 19, Sep 7, 2023

Soil Map—Eddy Area, New Mexico



Natural Resources  
Conservation Service

Web Soil Survey  
National Cooperative Soil Survey

8/6/2024  
Page 1 of 3

## Soil Map—Eddy Area, New Mexico

## MAP LEGEND

## Area of Interest (AOI)

 Area of Interest (AOI)

## Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

## Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

## Water Features



Streams and Canals

## Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

## Background



Aerial Photography

## MAP INFORMATION

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

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

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

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

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

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

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

Soil Survey Area: Eddy Area, New Mexico

Survey Area Data: Version 19, Sep 7, 2023

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

Date(s) aerial images were photographed: Nov 12, 2022—Dec 2, 2022

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



Map Unit Legend




Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
KT	Kimbrough-Stegall loams, 0 to 3 percent slopes	7.9	100.0%
Totals for Area of Interest		7.9	100.0%

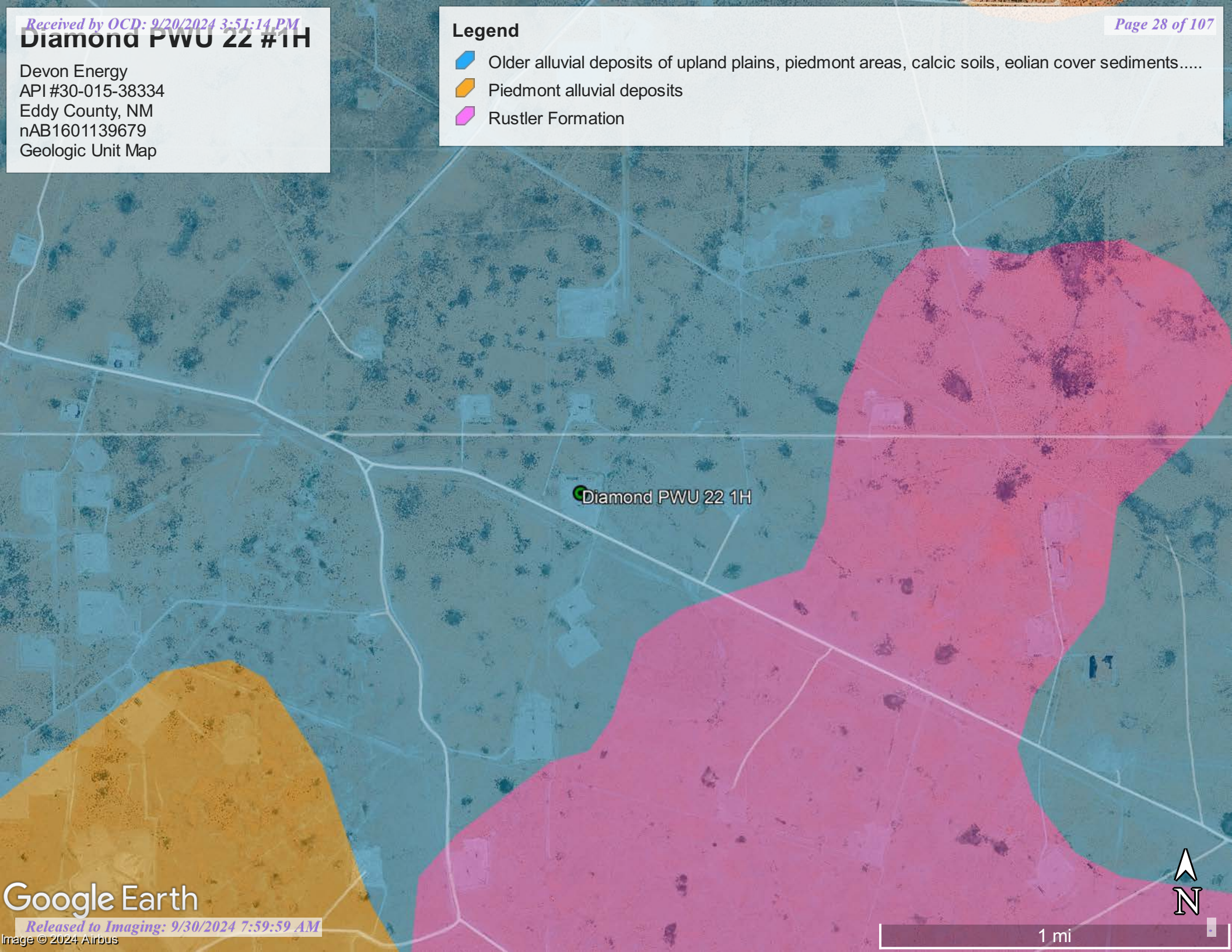


# Diamond PWU 22 #1H

Devon Energy  
API #30-015-38334  
Eddy County, NM  
nAB1601139679  
Geologic Unit Map

## Legend

-  Older alluvial deposits of upland plains, piedmont areas, calcic soils, eolian cover sediments.....
-  Piedmont alluvial deposits
-  Rustler Formation



Diamond PWU 22 1H







## **Appendix C**

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

## NM OIL CONSERVATION

ARTESIA DISTRICT

Form C-141  
Revised August 8, 2011

JAN 08 2015

Submit 1 Copy to appropriate District Office in  
accordance with 19.15.29 NMAC.

RECEIVED

## Release Notification and Corrective Action

**NAB1601139679** **6137** **OPERATOR** ☒ Initial Report ☐ Final Report

<b>Name of Company</b> Devon Energy Production Company	<b>Contact</b> Rudy Zuniga Production Foreman
<b>Address</b> 6488 Seven Rivers Hwy Artesia, NM 88210	<b>Telephone No.</b> 575-390-5435
<b>Facility Name</b> Diamond PWU 22 #1H	<b>Facility Type</b> Oil

<b>Surface Owner</b> State	<b>Mineral Owner</b> State	<b>API No</b> 30-015-38334
----------------------------	----------------------------	----------------------------

## LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
D	22	19S	29E	575	North	330	West	Eddy

Latitude: N 32°65'19.52"

Longitude: W 104°07'01.29"

## NATURE OF RELEASE

<b>Type of Release Spill</b> Oil	<b>Volume of Release</b> .5 bbl oil	<b>Volume Recovered</b> .0 bbl
<b>Source of Release</b> 2 phase separator dump valve	<b>Date and Hour of Occurrence</b> 12.23.15 @ 11:30 am	<b>Date and Hour of Discovery</b> 12.23.15 @ 11:30 am
<b>Was Immediate Notice Given?</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	<b>If YES, To Whom?</b> Heather Patterson @ OCD	
<b>By Whom?</b> Jesse Armendariz Assistant Production Foreman	<b>Date and Hour</b> 12.23.15 @ 11:40 am	
<b>Was a Watercourse Reached?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>If YES, Volume Impacting the Watercourse</b> N/A	

**If a Watercourse was Impacted, Describe Fully.\***  
N/A

**Describe Cause of Problem and Remedial Action Taken.\***  
2 phase separator dump valve was stuck causing a .5 bbl oil spray release. Well was shut in to prevent further release. The dump valve was rebuilt.

**Describe Area Affected and Cleanup Action Taken.\***  
.5 bbl oil spray was released on the East, South East side of the pad. None of the spray was recovered. The size of the affected area was 10'x20' off the pad. Environmental agency to be contacted for remediation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

<b>Signature:</b> <i>Corina Moya</i>	<b>OIL CONSERVATION DIVISION</b>	
<b>Printed Name:</b> Corina Moya	<b>Signed By:</b> <i>Phil K. Laramore</i>	
<b>Title:</b> Field Admin Support	<b>Approved by Environmental Specialist:</b>	
<b>E-mail Address:</b> corina.moya@dvn.com	<b>Approval Date:</b> 11/11/16	<b>Expiration Date:</b> N/A
<b>Date:</b> 1.5.16 <b>Phone:</b> 575.746.5559	<b>Conditions of Approval:</b>	
<b>Remediation per O.C.D. Rules &amp; Guidelines</b>		
<b>SUBMIT REMEDIATION PROPOSAL NO</b>		

\* Attach Additional Sheets If Necessary

LATER THAN: 2/12/16

2RP-3482





Tom Pima Oil &lt;tom@pimaoil.com&gt;

---

**Fwd: [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 370724**

1 message

**Woodall, Dale** <Dale.Woodall@dmv.com>

Tue, Aug 6, 2024 at 9:16 AM

To: Tom Pima Oil &lt;tom@pimaoil.com&gt;, Lynsey Pima Oil &lt;lynsey@pimaoil.com&gt;, Gio PimaOil &lt;gio@pimaoil.com&gt;

Dale Woodall

**Environmental Professional****Hobbs, NM**Office: 575-748-1838Mobile: 405-318-4697[Dale.Woodall@dmv.com](mailto:Dale.Woodall@dmv.com)

---

**From:** [OCDOnline@state.nm.us](mailto:OCDOnline@state.nm.us) <[OCDOnline@state.nm.us](mailto:OCDOnline@state.nm.us)>**Sent:** Tuesday, August 6, 2024 8:13:54 AM**To:** Woodall, Dale <[Dale.Woodall@dmv.com](mailto:Dale.Woodall@dmv.com)>**Subject:** [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 370724

To whom it may concern (c/o Dale Woodall for DEVON ENERGY PRODUCTION COMPANY, LP),

The OCD has received the submitted *Notification for (Final) Sampling of a Release (C-141N)*, for incident ID (n#) nAB1601139679.

The sampling event is expected to take place:

**When:** 08/08/2024 @ 08:12**Where:** D-22-19S-29E 575 FNL 330 FWL (32.6519089,-104.0702057)**Additional Information:** Pima 575-416-0639**Additional Instructions:** Please provide any information necessary for navigation to sampling site

From the intersection of S Old Loco Road and Curry Comb Road in Eddy county, travel southeast on Curry Comb Rd for 0.67 miles, turn north into location.

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

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

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

**New Mexico Energy, Minerals and Natural Resources Department**[1220 South St. Francis Drive](#)

Santa Fe, NM 87505

Confidentiality Warning: This message and any attachments are intended only for the use of the intended recipient(s), are confidential, and may be privileged. If you are not the intended recipient, you are hereby notified that any review,

retransmission, conversion to hard copy, copying, circulation or other use of all or any portion of this message and any attachments is strictly prohibited. If you are not the intended recipient, please notify the sender immediately by return e-mail, and delete this message and any attachments from your system.





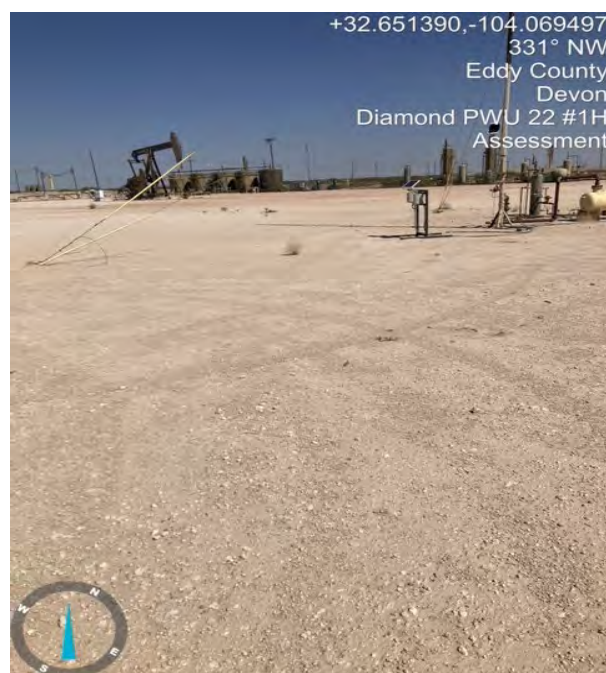
## **Appendix D**

### Photographic Documentation



**SITE PHOTOGRAPHS**  
**DEVON ENERGY**  
**DIAMOND PWU 22 1H**

**Site Assessment**









## **Appendix E**

### Laboratory Report



Report to:  
Tom Bynum



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Pima Environmental Services-Carlsbad

Project Name: Diamond PWU 22 1H

Work Order: E408108

Job Number: 01058-0007

Received: 8/12/2024

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
8/16/24

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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

Date Reported: 8/16/24

Tom Bynum  
PO Box 247  
Plains, TX 79355-0247



Project Name: Diamond PWU 22 1H  
Workorder: E408108  
Date Received: 8/12/2024 8:15:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/12/2024 8:15:00AM, under the Project Name: Diamond PWU 22 1H.

The analytical test results summarized in this report with the Project Name: Diamond PWU 22 1H apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
[rainaschwanz@envirotech-inc.com](mailto:rainaschwanz@envirotech-inc.com)

Field Offices:

**Southern New Mexico Area**

**Lynn Jarboe**  
Laboratory Technical Representative  
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[mgonzales@envirotech-inc.com](mailto:mgonzales@envirotech-inc.com)

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



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## Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	Diamond PWU 22 1H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	08/16/24 10:17

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
F1-Surface	E408108-01A	Soil	08/08/24	08/12/24	Glass Jar, 2 oz.
F1-1'	E408108-02A	Soil	08/08/24	08/12/24	Glass Jar, 2 oz.
F1-2'	E408108-03A	Soil	08/08/24	08/12/24	Glass Jar, 2 oz.
F1-3'	E408108-04A	Soil	08/08/24	08/12/24	Glass Jar, 2 oz.
F1-4'	E408108-05A	Soil	08/08/24	08/12/24	Glass Jar, 2 oz.
F2-Surface	E408108-06A	Soil	08/08/24	08/12/24	Glass Jar, 2 oz.
F2-1'	E408108-07A	Soil	08/08/24	08/12/24	Glass Jar, 2 oz.
F2-2'	E408108-08A	Soil	08/08/24	08/12/24	Glass Jar, 2 oz.
F2-3'	E408108-09A	Soil	08/08/24	08/12/24	Glass Jar, 2 oz.
F2-4'	E408108-10A	Soil	08/08/24	08/12/24	Glass Jar, 2 oz.
F3-Surface	E408108-11A	Soil	08/08/24	08/12/24	Glass Jar, 2 oz.
F3-1'	E408108-12A	Soil	08/08/24	08/12/24	Glass Jar, 2 oz.
F3-2'	E408108-13A	Soil	08/08/24	08/12/24	Glass Jar, 2 oz.
F3-3'	E408108-14A	Soil	08/08/24	08/12/24	Glass Jar, 2 oz.
F3-4'	E408108-15A	Soil	08/08/24	08/12/24	Glass Jar, 2 oz.
F4-Surface	E408108-16A	Soil	08/08/24	08/12/24	Glass Jar, 2 oz.
F4-1'	E408108-17A	Soil	08/08/24	08/12/24	Glass Jar, 2 oz.
F4-2'	E408108-18A	Soil	08/08/24	08/12/24	Glass Jar, 2 oz.
F4-3'	E408108-19A	Soil	08/08/24	08/12/24	Glass Jar, 2 oz.
F4-4'	E408108-20A	Soil	08/08/24	08/12/24	Glass Jar, 2 oz.
FSW1-Comp	E408108-21A	Soil	08/08/24	08/12/24	Glass Jar, 2 oz.
FSW2-Comp	E408108-22A	Soil	08/08/24	08/12/24	Glass Jar, 2 oz.
FSW3-Comp	E408108-23A	Soil	08/08/24	08/12/24	Glass Jar, 2 oz.
FSW4-Comp	E408108-24A	Soil	08/08/24	08/12/24	Glass Jar, 2 oz.



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Diamond PWU 22 1H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 8/16/2024 10:17:16AM
---	---	-----------------------------------

F1-Surface  
E408108-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: CG		Batch: 2433005	
Benzene	ND	0.0250	1	08/12/24	08/13/24	
Ethylbenzene	ND	0.0250	1	08/12/24	08/13/24	
Toluene	ND	0.0250	1	08/12/24	08/13/24	
o-Xylene	ND	0.0250	1	08/12/24	08/13/24	
p,m-Xylene	ND	0.0500	1	08/12/24	08/13/24	
Total Xylenes	ND	0.0250	1	08/12/24	08/13/24	
Surrogate: 4-Bromochlorobenzene-PID	90.2 %	70-130		08/12/24	08/13/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: CG		Batch: 2433005	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/12/24	08/13/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	93.2 %	70-130		08/12/24	08/13/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2433007	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/12/24	08/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/12/24	08/13/24	
Surrogate: n-Nonane	93.4 %	50-200		08/12/24	08/13/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: JM		Batch: 2433023	
Chloride	ND	20.0	1	08/12/24	08/12/24	



## Sample Data

Pima Environmental Services-Carlsbad  
PO Box 247  
Plains TX, 79355-0247

Project Name: Diamond PWU 22 1H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
8/16/2024 10:17:16AM

F1-1'

E408108-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: CG		Batch: 2433005	
Benzene	ND	0.0250	1	08/12/24	08/13/24	
Ethylbenzene	ND	0.0250	1	08/12/24	08/13/24	
Toluene	ND	0.0250	1	08/12/24	08/13/24	
o-Xylene	ND	0.0250	1	08/12/24	08/13/24	
p,m-Xylene	ND	0.0500	1	08/12/24	08/13/24	
Total Xylenes	ND	0.0250	1	08/12/24	08/13/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	89.3 %	70-130		08/12/24	08/13/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: CG		Batch: 2433005	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/12/24	08/13/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.5 %	70-130		08/12/24	08/13/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: NV		Batch: 2433007	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/12/24	08/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/12/24	08/13/24	
<i>Surrogate: n-Nonane</i>						
	92.8 %	50-200		08/12/24	08/13/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: JM		Batch: 2433023	
Chloride	26.9	20.0	1	08/12/24	08/12/24	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Diamond PWU 22 1H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 8/16/2024 10:17:16AM
---	---	-----------------------------------

F1-2'

E408108-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: CG		Batch: 2433005	
Benzene	ND	0.0250	1	08/12/24	08/13/24	
Ethylbenzene	ND	0.0250	1	08/12/24	08/13/24	
Toluene	ND	0.0250	1	08/12/24	08/13/24	
o-Xylene	ND	0.0250	1	08/12/24	08/13/24	
p,m-Xylene	ND	0.0500	1	08/12/24	08/13/24	
Total Xylenes	ND	0.0250	1	08/12/24	08/13/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.0 %	70-130		08/12/24	08/13/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: CG		Batch: 2433005	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/12/24	08/13/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.2 %	70-130		08/12/24	08/13/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: NV		Batch: 2433007	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/12/24	08/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/12/24	08/13/24	
<i>Surrogate: n-Nonane</i>						
	95.9 %	50-200		08/12/24	08/13/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: JM		Batch: 2433023	
Chloride	ND	20.0	1	08/12/24	08/12/24	





Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Diamond PWU 22 1H	<b>Reported:</b> 8/16/2024 10:17:16AM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

F1-3'

E408108-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: CG		Batch: 2433005	
Benzene	ND	0.0250	1	08/12/24	08/13/24	
Ethylbenzene	ND	0.0250	1	08/12/24	08/13/24	
Toluene	ND	0.0250	1	08/12/24	08/13/24	
o-Xylene	ND	0.0250	1	08/12/24	08/13/24	
p,m-Xylene	ND	0.0500	1	08/12/24	08/13/24	
Total Xylenes	ND	0.0250	1	08/12/24	08/13/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.1 %	70-130		08/12/24	08/13/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: CG		Batch: 2433005	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/12/24	08/13/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.1 %	70-130		08/12/24	08/13/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2433007	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/12/24	08/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/12/24	08/13/24	
<i>Surrogate: n-Nonane</i>						
	92.9 %	50-200		08/12/24	08/13/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: JM		Batch: 2433023	
Chloride	ND	20.0	1	08/12/24	08/12/24	



## Sample Data

Pima Environmental Services-Carlsbad  
PO Box 247  
Plains TX, 79355-0247

Project Name: Diamond PWU 22 1H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
8/16/2024 10:17:16AM

F1-4'

E408108-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: CG		Batch: 2433005	
Benzene	ND	0.0250	1	08/12/24	08/13/24	
Ethylbenzene	ND	0.0250	1	08/12/24	08/13/24	
Toluene	ND	0.0250	1	08/12/24	08/13/24	
o-Xylene	ND	0.0250	1	08/12/24	08/13/24	
p,m-Xylene	ND	0.0500	1	08/12/24	08/13/24	
Total Xylenes	ND	0.0250	1	08/12/24	08/13/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	89.4 %	70-130		08/12/24	08/13/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: CG		Batch: 2433005	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/12/24	08/13/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.7 %	70-130		08/12/24	08/13/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: NV		Batch: 2433007	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/12/24	08/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/12/24	08/13/24	
<i>Surrogate: n-Nonane</i>						
	95.7 %	50-200		08/12/24	08/13/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: JM		Batch: 2433023	
Chloride	ND	20.0	1	08/12/24	08/12/24	





Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Diamond PWU 22 1H	Reported: 8/16/2024 10:17:16AM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

F2-Surface  
E408108-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: CG		Batch: 2433005	
Benzene	ND	0.0250	1	08/12/24	08/13/24	
Ethylbenzene	ND	0.0250	1	08/12/24	08/13/24	
Toluene	ND	0.0250	1	08/12/24	08/13/24	
o-Xylene	ND	0.0250	1	08/12/24	08/13/24	
p,m-Xylene	ND	0.0500	1	08/12/24	08/13/24	
Total Xylenes	ND	0.0250	1	08/12/24	08/13/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	89.7 %	70-130		08/12/24	08/13/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: CG		Batch: 2433005	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/12/24	08/13/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.3 %	70-130		08/12/24	08/13/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: NV		Batch: 2433007	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/12/24	08/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/12/24	08/13/24	
<i>Surrogate: n-Nonane</i>						
	96.9 %	50-200		08/12/24	08/13/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: JM		Batch: 2433023	
Chloride	ND	20.0	1	08/12/24	08/12/24	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Diamond PWU 22 1H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 8/16/2024 10:17:16AM
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F2-1'

E408108-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: CG		Batch: 2433005	
Benzene	ND	0.0250	1	08/12/24	08/13/24	
Ethylbenzene	ND	0.0250	1	08/12/24	08/13/24	
Toluene	ND	0.0250	1	08/12/24	08/13/24	
o-Xylene	ND	0.0250	1	08/12/24	08/13/24	
p,m-Xylene	ND	0.0500	1	08/12/24	08/13/24	
Total Xylenes	ND	0.0250	1	08/12/24	08/13/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.4 %	70-130		08/12/24	08/13/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: CG		Batch: 2433005	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/12/24	08/13/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.2 %	70-130		08/12/24	08/13/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: NV		Batch: 2433007	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/12/24	08/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/12/24	08/13/24	
<i>Surrogate: n-Nonane</i>						
	95.2 %	50-200		08/12/24	08/13/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: JM		Batch: 2433023	
Chloride	26.0	20.0	1	08/12/24	08/12/24	





Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Diamond PWU 22 1H	<b>Reported:</b> 8/16/2024 10:17:16AM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

F2-2'

E408108-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: CG		Batch: 2433005	
Benzene	ND	0.0250	1	08/12/24	08/13/24	
Ethylbenzene	ND	0.0250	1	08/12/24	08/13/24	
Toluene	ND	0.0250	1	08/12/24	08/13/24	
o-Xylene	ND	0.0250	1	08/12/24	08/13/24	
p,m-Xylene	ND	0.0500	1	08/12/24	08/13/24	
Total Xylenes	ND	0.0250	1	08/12/24	08/13/24	
Surrogate: 4-Bromochlorobenzene-PID	90.6 %	70-130		08/12/24	08/13/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: CG		Batch: 2433005	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/12/24	08/13/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	94.3 %	70-130		08/12/24	08/13/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2433007	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/12/24	08/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/12/24	08/13/24	
Surrogate: n-Nonane	98.6 %	50-200		08/12/24	08/13/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: JM		Batch: 2433023	
Chloride	20.3	20.0	1	08/12/24	08/12/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Diamond PWU 22 1H	<b>Reported:</b> 8/16/2024 10:17:16AM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

F2-3'

E408108-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: CG		Batch: 2433005	
Benzene	ND	0.0250	1	08/12/24	08/13/24	
Ethylbenzene	ND	0.0250	1	08/12/24	08/13/24	
Toluene	ND	0.0250	1	08/12/24	08/13/24	
o-Xylene	ND	0.0250	1	08/12/24	08/13/24	
p,m-Xylene	ND	0.0500	1	08/12/24	08/13/24	
Total Xylenes	ND	0.0250	1	08/12/24	08/13/24	
Surrogate: 4-Bromochlorobenzene-PID	88.6 %	70-130		08/12/24	08/13/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: CG		Batch: 2433005	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/12/24	08/13/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	93.1 %	70-130		08/12/24	08/13/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2433007	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/12/24	08/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/12/24	08/13/24	
Surrogate: n-Nonane	95.9 %	50-200		08/12/24	08/13/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: JM		Batch: 2433023	
Chloride	ND	20.0	1	08/12/24	08/12/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Diamond PWU 22 1H	<b>Reported:</b> 8/16/2024 10:17:16AM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

F2-4'

E408108-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: CG		Batch: 2433005	
Benzene	ND	0.0250	1	08/12/24	08/13/24	
Ethylbenzene	ND	0.0250	1	08/12/24	08/13/24	
Toluene	ND	0.0250	1	08/12/24	08/13/24	
o-Xylene	ND	0.0250	1	08/12/24	08/13/24	
p,m-Xylene	ND	0.0500	1	08/12/24	08/13/24	
Total Xylenes	ND	0.0250	1	08/12/24	08/13/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.8 %	70-130		08/12/24	08/13/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: CG		Batch: 2433005	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/12/24	08/13/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.1 %	70-130		08/12/24	08/13/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: NV		Batch: 2433007	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/12/24	08/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/12/24	08/13/24	
<i>Surrogate: n-Nonane</i>						
	98.2 %	50-200		08/12/24	08/13/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: JM		Batch: 2433023	
Chloride	ND	20.0	1	08/12/24	08/12/24	





Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Diamond PWU 22 1H	<b>Reported:</b> 8/16/2024 10:17:16AM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

F3-Surface  
E408108-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: CG		Batch: 2433005	
Benzene	ND	0.0250	1	08/12/24	08/13/24	
Ethylbenzene	ND	0.0250	1	08/12/24	08/13/24	
Toluene	ND	0.0250	1	08/12/24	08/13/24	
o-Xylene	ND	0.0250	1	08/12/24	08/13/24	
p,m-Xylene	ND	0.0500	1	08/12/24	08/13/24	
Total Xylenes	ND	0.0250	1	08/12/24	08/13/24	
Surrogate: 4-Bromochlorobenzene-PID	90.0 %	70-130		08/12/24	08/13/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: CG		Batch: 2433005	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/12/24	08/13/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	94.3 %	70-130		08/12/24	08/13/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2433007	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/12/24	08/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/12/24	08/13/24	
Surrogate: n-Nonane	104 %	50-200		08/12/24	08/13/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: JM		Batch: 2433023	
Chloride	ND	20.0	1	08/12/24	08/12/24	



## Sample Data

Pima Environmental Services-Carlsbad  
PO Box 247  
Plains TX, 79355-0247

Project Name: Diamond PWU 22 1H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
8/16/2024 10:17:16AM

F3-1'

E408108-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: CG		Batch: 2433005	
Benzene	ND	0.0250	1	08/12/24	08/13/24	
Ethylbenzene	ND	0.0250	1	08/12/24	08/13/24	
Toluene	ND	0.0250	1	08/12/24	08/13/24	
o-Xylene	ND	0.0250	1	08/12/24	08/13/24	
p,m-Xylene	ND	0.0500	1	08/12/24	08/13/24	
Total Xylenes	ND	0.0250	1	08/12/24	08/13/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	89.6 %	70-130		08/12/24	08/13/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: CG		Batch: 2433005	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/12/24	08/13/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.4 %	70-130		08/12/24	08/13/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: NV		Batch: 2433007	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/12/24	08/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/12/24	08/13/24	
<i>Surrogate: n-Nonane</i>						
	97.0 %	50-200		08/12/24	08/13/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: JM		Batch: 2433023	
Chloride	24.9	20.0	1	08/12/24	08/12/24	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Diamond PWU 22 1H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 8/16/2024 10:17:16AM
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F3-2'

E408108-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: CG		Batch: 2433005	
Benzene	ND	0.0250	1	08/12/24	08/13/24	
Ethylbenzene	ND	0.0250	1	08/12/24	08/13/24	
Toluene	ND	0.0250	1	08/12/24	08/13/24	
o-Xylene	ND	0.0250	1	08/12/24	08/13/24	
p,m-Xylene	ND	0.0500	1	08/12/24	08/13/24	
Total Xylenes	ND	0.0250	1	08/12/24	08/13/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.8 %	70-130		08/12/24	08/13/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: CG		Batch: 2433005	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/12/24	08/13/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.7 %	70-130		08/12/24	08/13/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: NV		Batch: 2433007	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/12/24	08/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/12/24	08/13/24	
<i>Surrogate: n-Nonane</i>						
	99.3 %	50-200		08/12/24	08/13/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: JM		Batch: 2433023	
Chloride	ND	20.0	1	08/12/24	08/12/24	





Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Diamond PWU 22 1H	<b>Reported:</b> 8/16/2024 10:17:16AM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

F3-3'

E408108-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: CG		Batch: 2433005	
Benzene	ND	0.0250	1	08/12/24	08/13/24	
Ethylbenzene	ND	0.0250	1	08/12/24	08/13/24	
Toluene	ND	0.0250	1	08/12/24	08/13/24	
o-Xylene	ND	0.0250	1	08/12/24	08/13/24	
p,m-Xylene	ND	0.0500	1	08/12/24	08/13/24	
Total Xylenes	ND	0.0250	1	08/12/24	08/13/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.0 %	70-130		08/12/24	08/13/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: CG		Batch: 2433005	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/12/24	08/13/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.0 %	70-130		08/12/24	08/13/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: NV		Batch: 2433007	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/12/24	08/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/12/24	08/13/24	
<i>Surrogate: n-Nonane</i>						
	97.2 %	50-200		08/12/24	08/13/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: JM		Batch: 2433023	
Chloride	ND	20.0	1	08/12/24	08/12/24	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Diamond PWU 22 1H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 8/16/2024 10:17:16AM
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F3-4'

E408108-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: CG		Batch: 2433005	
Benzene	ND	0.0250	1	08/12/24	08/13/24	
Ethylbenzene	ND	0.0250	1	08/12/24	08/13/24	
Toluene	ND	0.0250	1	08/12/24	08/13/24	
o-Xylene	ND	0.0250	1	08/12/24	08/13/24	
p,m-Xylene	ND	0.0500	1	08/12/24	08/13/24	
Total Xylenes	ND	0.0250	1	08/12/24	08/13/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	89.6 %	70-130		08/12/24	08/13/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: CG		Batch: 2433005	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/12/24	08/13/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.4 %	70-130		08/12/24	08/13/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: NV		Batch: 2433007	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/12/24	08/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/12/24	08/14/24	
<i>Surrogate: n-Nonane</i>						
	98.0 %	50-200		08/12/24	08/14/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: JM		Batch: 2433023	
Chloride	ND	20.0	1	08/12/24	08/12/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Diamond PWU 22 1H	<b>Reported:</b> 8/16/2024 10:17:16AM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

F4-Surface  
E408108-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: CG		Batch: 2433005	
Benzene	ND	0.0250	1	08/12/24	08/13/24	
Ethylbenzene	ND	0.0250	1	08/12/24	08/13/24	
Toluene	ND	0.0250	1	08/12/24	08/13/24	
o-Xylene	ND	0.0250	1	08/12/24	08/13/24	
p,m-Xylene	ND	0.0500	1	08/12/24	08/13/24	
Total Xylenes	ND	0.0250	1	08/12/24	08/13/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	89.9 %	70-130		08/12/24	08/13/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: CG		Batch: 2433005	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/12/24	08/13/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.5 %	70-130		08/12/24	08/13/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: NV		Batch: 2433007	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/12/24	08/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/12/24	08/14/24	
<i>Surrogate: n-Nonane</i>						
	100 %	50-200		08/12/24	08/14/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: JM		Batch: 2433023	
Chloride	ND	20.0	1	08/12/24	08/12/24	





Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Diamond PWU 22 1H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 8/16/2024 10:17:16AM
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F4-1'

E408108-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: CG		Batch: 2433005	
Benzene	ND	0.0250	1	08/12/24	08/13/24	
Ethylbenzene	ND	0.0250	1	08/12/24	08/13/24	
Toluene	ND	0.0250	1	08/12/24	08/13/24	
o-Xylene	ND	0.0250	1	08/12/24	08/13/24	
p,m-Xylene	ND	0.0500	1	08/12/24	08/13/24	
Total Xylenes	ND	0.0250	1	08/12/24	08/13/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	89.3 %	70-130		08/12/24	08/13/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: CG		Batch: 2433005	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/12/24	08/13/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.8 %	70-130		08/12/24	08/13/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: NV		Batch: 2433007	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/12/24	08/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/12/24	08/14/24	
<i>Surrogate: n-Nonane</i>						
	101 %	50-200		08/12/24	08/14/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: JM		Batch: 2433023	
Chloride	24.5	20.0	1	08/12/24	08/12/24	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Diamond PWU 22 1H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 8/16/2024 10:17:16AM
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F4-2'

E408108-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: CG		Batch: 2433005	
Benzene	ND	0.0250	1	08/12/24	08/13/24	
Ethylbenzene	ND	0.0250	1	08/12/24	08/13/24	
Toluene	ND	0.0250	1	08/12/24	08/13/24	
o-Xylene	ND	0.0250	1	08/12/24	08/13/24	
p,m-Xylene	ND	0.0500	1	08/12/24	08/13/24	
Total Xylenes	ND	0.0250	1	08/12/24	08/13/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	89.3 %	70-130		08/12/24	08/13/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: CG		Batch: 2433005	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/12/24	08/13/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.2 %	70-130		08/12/24	08/13/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: NV		Batch: 2433007	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/12/24	08/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/12/24	08/14/24	
<i>Surrogate: n-Nonane</i>						
	101 %	50-200		08/12/24	08/14/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: JM		Batch: 2433023	
Chloride	ND	20.0	1	08/12/24	08/12/24	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Diamond PWU 22 1H Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 8/16/2024 10:17:16AM
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F4-3'

E408108-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: CG		Batch: 2433005	
Benzene	ND	0.0250	1	08/12/24	08/13/24	
Ethylbenzene	ND	0.0250	1	08/12/24	08/13/24	
Toluene	ND	0.0250	1	08/12/24	08/13/24	
o-Xylene	ND	0.0250	1	08/12/24	08/13/24	
p,m-Xylene	ND	0.0500	1	08/12/24	08/13/24	
Total Xylenes	ND	0.0250	1	08/12/24	08/13/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	89.3 %	70-130		08/12/24	08/13/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: CG		Batch: 2433005	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/12/24	08/13/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.2 %	70-130		08/12/24	08/13/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: NV		Batch: 2433007	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/12/24	08/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/12/24	08/14/24	
<i>Surrogate: n-Nonane</i>						
	94.7 %	50-200		08/12/24	08/14/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: JM		Batch: 2433023	
Chloride	ND	20.0	1	08/12/24	08/12/24	





Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Diamond PWU 22 1H	<b>Reported:</b> 8/16/2024 10:17:16AM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

F4-4'

E408108-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: CG		Batch: 2433005	
Benzene	ND	0.0250	1	08/12/24	08/13/24	
Ethylbenzene	ND	0.0250	1	08/12/24	08/13/24	
Toluene	ND	0.0250	1	08/12/24	08/13/24	
o-Xylene	ND	0.0250	1	08/12/24	08/13/24	
p,m-Xylene	ND	0.0500	1	08/12/24	08/13/24	
Total Xylenes	ND	0.0250	1	08/12/24	08/13/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	89.0 %	70-130		08/12/24	08/13/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: CG		Batch: 2433005	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/12/24	08/13/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.6 %	70-130		08/12/24	08/13/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: NV		Batch: 2433007	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/12/24	08/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/12/24	08/14/24	
<i>Surrogate: n-Nonane</i>						
	97.5 %	50-200		08/12/24	08/14/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: JM		Batch: 2433023	
Chloride	ND	20.0	1	08/12/24	08/12/24	



## Sample Data

Pima Environmental Services-Carlsbad  
PO Box 247  
Plains TX, 79355-0247

Project Name: Diamond PWU 22 1H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
8/16/2024 10:17:16AM

**FSW1-Comp**  
**E408108-21**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: CG		Batch: 2433003	
Benzene	ND	0.0250	1	08/12/24	08/12/24	
Ethylbenzene	ND	0.0250	1	08/12/24	08/12/24	
Toluene	ND	0.0250	1	08/12/24	08/12/24	
o-Xylene	ND	0.0250	1	08/12/24	08/12/24	
p,m-Xylene	ND	0.0500	1	08/12/24	08/12/24	
Total Xylenes	ND	0.0250	1	08/12/24	08/12/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	88.9 %	70-130		08/12/24	08/12/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: CG		Batch: 2433003	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/12/24	08/12/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.1 %	70-130		08/12/24	08/12/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2433006	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/12/24	08/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/12/24	08/13/24	
<i>Surrogate: n-Nonane</i>						
	111 %	50-200		08/12/24	08/13/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: WF		Batch: 2433002	
Chloride	ND	20.0	1	08/12/24	08/12/24	



## Sample Data

Pima Environmental Services-Carlsbad  
PO Box 247  
Plains TX, 79355-0247

Project Name: Diamond PWU 22 1H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
8/16/2024 10:17:16AM

**FSW2-Comp**  
**E408108-22**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: CG		Batch: 2433003	
Benzene	ND	0.0250	1	08/12/24	08/12/24	
Ethylbenzene	ND	0.0250	1	08/12/24	08/12/24	
Toluene	ND	0.0250	1	08/12/24	08/12/24	
o-Xylene	ND	0.0250	1	08/12/24	08/12/24	
p,m-Xylene	ND	0.0500	1	08/12/24	08/12/24	
Total Xylenes	ND	0.0250	1	08/12/24	08/12/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	89.1 %	70-130		08/12/24	08/12/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: CG		Batch: 2433003	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/12/24	08/12/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.2 %	70-130		08/12/24	08/12/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2433006	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/12/24	08/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/12/24	08/13/24	
<i>Surrogate: n-Nonane</i>						
	102 %	50-200		08/12/24	08/13/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: WF		Batch: 2433002	
Chloride	ND	20.0	1	08/12/24	08/12/24	





Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Diamond PWU 22 1H	<b>Reported:</b> 8/16/2024 10:17:16AM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

FSW3-Comp  
E408108-23

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: CG		Batch: 2433003	
Benzene	ND	0.0250	1	08/12/24	08/13/24	
Ethylbenzene	ND	0.0250	1	08/12/24	08/13/24	
Toluene	ND	0.0250	1	08/12/24	08/13/24	
o-Xylene	ND	0.0250	1	08/12/24	08/13/24	
p,m-Xylene	ND	0.0500	1	08/12/24	08/13/24	
Total Xylenes	ND	0.0250	1	08/12/24	08/13/24	
Surrogate: 4-Bromochlorobenzene-PID	89.6 %	70-130		08/12/24	08/13/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: CG		Batch: 2433003	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/12/24	08/13/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	93.3 %	70-130		08/12/24	08/13/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2433006	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/12/24	08/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/12/24	08/13/24	
Surrogate: n-Nonane	108 %	50-200		08/12/24	08/13/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: WF		Batch: 2433002	
Chloride	ND	20.0	1	08/12/24	08/12/24	



## Sample Data

Pima Environmental Services-Carlsbad  
PO Box 247  
Plains TX, 79355-0247

Project Name: Diamond PWU 22 1H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
8/16/2024 10:17:16AM

**FSW4-Comp**  
**E408108-24**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: CG		Batch: 2433003	
Benzene	ND	0.0250	1	08/12/24	08/13/24	
Ethylbenzene	ND	0.0250	1	08/12/24	08/13/24	
Toluene	ND	0.0250	1	08/12/24	08/13/24	
o-Xylene	ND	0.0250	1	08/12/24	08/13/24	
p,m-Xylene	ND	0.0500	1	08/12/24	08/13/24	
Total Xylenes	ND	0.0250	1	08/12/24	08/13/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	89.2 %	70-130		08/12/24	08/13/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: CG		Batch: 2433003	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/12/24	08/13/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.1 %	70-130		08/12/24	08/13/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2433006	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/12/24	08/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/12/24	08/13/24	
<i>Surrogate: n-Nonane</i>						
	97.8 %	50-200		08/12/24	08/13/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: WF		Batch: 2433002	
Chloride	ND	20.0	1	08/12/24	08/12/24	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Diamond PWU 22 1H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	8/16/2024 10:17:16AM

Volatile Organics by EPA 8021B

Analyst: CG

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2433003-BLK1) Prepared: 08/12/24 Analyzed: 08/12/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.04		8.00		88.0	70-130			

LCS (2433003-BS1) Prepared: 08/12/24 Analyzed: 08/12/24

Benzene	4.55	0.0250	5.00		91.0	70-130			
Ethylbenzene	4.76	0.0250	5.00		95.3	70-130			
Toluene	4.74	0.0250	5.00		94.9	70-130			
o-Xylene	4.77	0.0250	5.00		95.3	70-130			
p,m-Xylene	9.70	0.0500	10.0		97.0	70-130			
Total Xylenes	14.5	0.0250	15.0		96.4	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.24		8.00		90.5	70-130			

Matrix Spike (2433003-MS1) Source: E408106-06 Prepared: 08/12/24 Analyzed: 08/12/24

Benzene	4.46	0.0250	5.00	ND	89.3	54-133			
Ethylbenzene	4.72	0.0250	5.00	ND	94.4	61-133			
Toluene	4.69	0.0250	5.00	ND	93.7	61-130			
o-Xylene	4.72	0.0250	5.00	ND	94.5	63-131			
p,m-Xylene	9.61	0.0500	10.0	ND	96.1	63-131			
Total Xylenes	14.3	0.0250	15.0	ND	95.5	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.14		8.00		89.2	70-130			

Matrix Spike Dup (2433003-MSD1) Source: E408106-06 Prepared: 08/12/24 Analyzed: 08/12/24

Benzene	4.17	0.0250	5.00	ND	83.4	54-133	6.83	20	
Ethylbenzene	4.42	0.0250	5.00	ND	88.5	61-133	6.52	20	
Toluene	4.38	0.0250	5.00	ND	87.7	61-130	6.65	20	
o-Xylene	4.43	0.0250	5.00	ND	88.6	63-131	6.40	20	
p,m-Xylene	9.02	0.0500	10.0	ND	90.2	63-131	6.35	20	
Total Xylenes	13.4	0.0250	15.0	ND	89.7	63-131	6.37	20	
Surrogate: 4-Bromochlorobenzene-PID	7.09		8.00		88.6	70-130			





QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Diamond PWU 22 1H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	8/16/2024 10:17:16AM

Volatile Organics by EPA 8021B

Analyst: CG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2433005-BLK1) Prepared: 08/12/24 Analyzed: 08/13/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.15		8.00		89.4	70-130			

LCS (2433005-BS1) Prepared: 08/12/24 Analyzed: 08/13/24

Benzene	4.01	0.0250	5.00		80.2	70-130			
Ethylbenzene	4.11	0.0250	5.00		82.2	70-130			
Toluene	4.13	0.0250	5.00		82.5	70-130			
o-Xylene	4.11	0.0250	5.00		82.1	70-130			
p,m-Xylene	8.36	0.0500	10.0		83.6	70-130			
Total Xylenes	12.5	0.0250	15.0		83.1	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.13		8.00		89.1	70-130			

Matrix Spike (2433005-MS1) Source: E408108-09 Prepared: 08/12/24 Analyzed: 08/13/24

Benzene	4.16	0.0250	5.00	ND	83.3	54-133			
Ethylbenzene	4.27	0.0250	5.00	ND	85.4	61-133			
Toluene	4.29	0.0250	5.00	ND	85.7	61-130			
o-Xylene	4.27	0.0250	5.00	ND	85.3	63-131			
p,m-Xylene	8.69	0.0500	10.0	ND	86.9	63-131			
Total Xylenes	13.0	0.0250	15.0	ND	86.4	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.19		8.00		89.9	70-130			

Matrix Spike Dup (2433005-MSD1) Source: E408108-09 Prepared: 08/12/24 Analyzed: 08/13/24

Benzene	4.64	0.0250	5.00	ND	92.8	54-133	10.8	20	
Ethylbenzene	4.78	0.0250	5.00	ND	95.6	61-133	11.2	20	
Toluene	4.79	0.0250	5.00	ND	95.8	61-130	11.1	20	
o-Xylene	4.79	0.0250	5.00	ND	95.9	63-131	11.6	20	
p,m-Xylene	9.68	0.0500	10.0	ND	96.8	63-131	10.8	20	
Total Xylenes	14.5	0.0250	15.0	ND	96.5	63-131	11.1	20	
Surrogate: 4-Bromochlorobenzene-PID	7.24		8.00		90.5	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Diamond PWU 22 1H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	8/16/2024 10:17:16AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: CG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2433003-BLK1) Prepared: 08/12/24 Analyzed: 08/12/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.44		8.00		93.0	70-130			

LCS (2433003-BS2) Prepared: 08/12/24 Analyzed: 08/12/24

Gasoline Range Organics (C6-C10)	44.9	20.0	50.0		89.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.56		8.00		94.5	70-130			

Matrix Spike (2433003-MS2) Source: E408106-06 Prepared: 08/12/24 Analyzed: 08/12/24

Gasoline Range Organics (C6-C10)	45.0	20.0	50.0	ND	90.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.70		8.00		96.2	70-130			

Matrix Spike Dup (2433003-MSD2) Source: E408106-06 Prepared: 08/12/24 Analyzed: 08/12/24

Gasoline Range Organics (C6-C10)	45.2	20.0	50.0	ND	90.4	70-130	0.348	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.58		8.00		94.8	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Diamond PWU 22 1H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	8/16/2024 10:17:16AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: CG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2433005-BLK1) Prepared: 08/12/24 Analyzed: 08/13/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.54		8.00		94.3	70-130			

LCS (2433005-BS2) Prepared: 08/12/24 Analyzed: 08/13/24

Gasoline Range Organics (C6-C10)	35.2	20.0	50.0		70.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.49		8.00		93.7	70-130			

Matrix Spike (2433005-MS2) Source: E408108-09 Prepared: 08/12/24 Analyzed: 08/13/24

Gasoline Range Organics (C6-C10)	36.5	20.0	50.0	ND	73.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.49		8.00		93.7	70-130			

Matrix Spike Dup (2433005-MSD2) Source: E408108-09 Prepared: 08/12/24 Analyzed: 08/13/24

Gasoline Range Organics (C6-C10)	41.8	20.0	50.0	ND	83.6	70-130	13.6	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.67		8.00		95.9	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Diamond PWU 22 1H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	8/16/2024 10:17:16AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2433006-BLK1)					Prepared: 08/12/24 Analyzed: 08/12/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	60.5		50.0		121	50-200			

LCS (2433006-BS1)					Prepared: 08/12/24 Analyzed: 08/12/24				
Diesel Range Organics (C10-C28)	310	25.0	250		124	38-132			
Surrogate: n-Nonane	62.7		50.0		125	50-200			

Matrix Spike (2433006-MS1)					Source: E408105-08		Prepared: 08/12/24 Analyzed: 08/12/24		
Diesel Range Organics (C10-C28)	295	25.0	250	ND	118	38-132			
Surrogate: n-Nonane	61.7		50.0		123	50-200			

Matrix Spike Dup (2433006-MSD1)					Source: E408105-08		Prepared: 08/12/24 Analyzed: 08/12/24		
Diesel Range Organics (C10-C28)	299	25.0	250	ND	120	38-132	1.55	20	
Surrogate: n-Nonane	55.3		50.0		111	50-200			





QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Diamond PWU 22 1H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	8/16/2024 10:17:16AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2433007-BLK1)					Prepared: 08/12/24 Analyzed: 08/13/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	43.7		50.0		87.4	50-200			

LCS (2433007-BS1)					Prepared: 08/12/24 Analyzed: 08/13/24				
Diesel Range Organics (C10-C28)	234	25.0	250		93.6	38-132			
Surrogate: n-Nonane	48.3		50.0		96.6	50-200			

Matrix Spike (2433007-MS1)					Source: E408108-07		Prepared: 08/12/24 Analyzed: 08/13/24		
Diesel Range Organics (C10-C28)	232	25.0	250	ND	93.0	38-132			
Surrogate: n-Nonane	48.2		50.0		96.4	50-200			

Matrix Spike Dup (2433007-MSD1)					Source: E408108-07		Prepared: 08/12/24 Analyzed: 08/13/24		
Diesel Range Organics (C10-C28)	237	25.0	250	ND	95.0	38-132	2.14	20	
Surrogate: n-Nonane	50.6		50.0		101	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Diamond PWU 22 1H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	8/16/2024 10:17:16AM

Anions by EPA 300.0/9056A

Analyst: WF

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2433002-BLK1)					Prepared: 08/12/24 Analyzed: 08/12/24				
Chloride	ND	20.0							
LCS (2433002-BS1)					Prepared: 08/12/24 Analyzed: 08/12/24				
Chloride	257	20.0	250		103	90-110			
Matrix Spike (2433002-MS1)					Source: E408105-01		Prepared: 08/12/24 Analyzed: 08/12/24		
Chloride	268	200	250	ND	107	80-120			
Matrix Spike Dup (2433002-MSD1)					Source: E408105-01		Prepared: 08/12/24 Analyzed: 08/12/24		
Chloride	267	200	250	ND	107	80-120	0.176	20	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Diamond PWU 22 1H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	8/16/2024 10:17:16AM

Anions by EPA 300.0/9056A

Analyst: JM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2433023-BLK1)					Prepared: 08/12/24 Analyzed: 08/12/24				
Chloride	ND	20.0							
LCS (2433023-BS1)					Prepared: 08/12/24 Analyzed: 08/12/24				
Chloride	249	20.0	250		99.8	90-110			
Matrix Spike (2433023-MS1)					Source: E408108-08		Prepared: 08/12/24 Analyzed: 08/12/24		
Chloride	274	20.0	250	20.3	101	80-120			
Matrix Spike Dup (2433023-MSD1)					Source: E408108-08		Prepared: 08/12/24 Analyzed: 08/12/24		
Chloride	274	20.0	250	20.3	101	80-120	0.0121	20	

QC Summary Report Comment:  
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures.  
Therefore, hand calculated values may differ slightly.

Definitions and Notes

Pima Environmental Services-Carlsbad	Project Name:	Diamond PWU 22 1H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	08/16/24 10:17

- ND      Analyte NOT DETECTED at or above the reporting limit
- NR      Not Reported
- RPD      Relative Percent Difference
- DNI      Did Not Ignite
- DNR      Did not react with the addition of acid or base.
- Note (1): Methods marked with \*\* are non-accredited methods.
- Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.





## Project Information

## Chain of Custody

Page 1 of 3

Client: Pima Environmental Services					Bill To		Lab Use Only		TAT				EPA Program						
Project: Diamond PWU 22 #1H					Attention: Devon Energy		Lab WO#	Job Number	1D	2D	3D	Standard	CWA	SDWA					
Project Manager: Tom Bynum					Address:		E408108	01058-0007				X							
Address: 5614 N. Lovington Hwy.					City, State, Zip		Analysis and Method								RCRA				
City, State, Zip Hobbs, NM. 88240					Phone:		DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	State				
Phone: 806-782-1151					Email:										NM	CO	UT	AZ	TX
Email: tom@pimaoil.com					Pima Project # 1-281-1 (nAB1601139679)										X				
Report due by:							Remarks												
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number														
8:31	8/8/24	S	1	F1-Surface	1										X				
8:42				F1-1'	2														
8:56				F1-2'	3														
9:11				F1-3'	4														
9:17				F1-4'	5														
9:22				F2-Surface	6														
9:27				F2-1'	7														
9:33				F2-2'	8														
9:46				F2-3'	9														
9:50				F2-4'	10														

**Additional Instructions:** Work Order/Billing: 21145598

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. **Sampled by:**

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Marine Heame	8/9/24	1:10	Michelle Gonzalez	8-9-24	1310
Michelle Gonzalez	8-9-24	1540	[Signature]	8-9-24	1637
[Signature]	8-9-24	1317	[Signature]	8/12/24	815

**Lab Use Only**  
Received on ice: ☒ Y ☐ N  
T1 \_\_\_\_\_ T2 \_\_\_\_\_ T3 \_\_\_\_\_  
AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other \_\_\_\_\_  
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

## Project Information

## Chain of Custody

Page 2 of 3

Client: Pima Environmental Services					Bill To		Lab Use Only						TAT				EPA Program	
Project: Diamond PWU 22 #1H					Attention: Devon Energy		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA		
Project Manager: Tom Bynum					Address:		E408108		01058-0057					X				
Address: 5614 N. Lovington Hwy.					City, State, Zip		Analysis and Method										RCRA	
City, State, Zip: Hobbs, NM. 88240					Phone:													
Phone: 806-782-1151					Email:													
Email: tom@pimaoil.com					Pima Project # 1-281-1 (nAB1601139679)													
Report due by:																		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	State				
														NM	CO	UT		
														X				
Remarks																		
9:56	8/8/24	S	1	F3-Surface	11							X						
10:11				F3-1'	12													
10:17				F3-2'	13													
10:25				F3-3'	14													
10:34				F3-4'	15													
10:40				F4-Surface	16													
10:47				F4-1'	17													
10:56				F4-2'	18													
12:11				F4-3'	19													
12:26				F4-4'	20													

**Additional Instructions:** Work Order/Billing: 21145598

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Sampled by: \_\_\_\_\_

Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time
Karime Acame		8/9/24	1:10	Michelle Gonzales		8-9-24	1:10
Michelle Gonzales		8-9-24	1540	[Signature]		8-9-24	1637
[Signature]		8-9-24	2317	[Signature]		8/12/24	815

Lab Use Only  
Received on ice: ☒ Y ☐ N  
T1 \_\_\_\_\_ T2 \_\_\_\_\_ T3 \_\_\_\_\_  
AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other \_\_\_\_\_  
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

Client: Pima Environmental Services				Bill To				Lab Use Only				TAT				EPA Program			
Project: Diamond PWU 22 #1H				Attention: Devon Energy				Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA		
Project Manager: Tom Bynum				Address:				E40808		01058-0007					X				
Address: 5614 N. Lovington Hwy.				City, State, Zip				Analysis and Method											RCRA
City, State, Zip Hobbs, NM. 88240				Phone:				DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		BDOC NM	BDOC TX			
Phone: 806-782-1151				Email:															
Email: tom@pimaoil.com				Pima Project # 1-281-1 (nAB1601139679)															
Report due by:																			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number														
1:07	8/8/24	S	1	FSW1-Comp	21									X					
1:13				FSW2-Comp	22														
1:25				FSW3-Comp	23														
1:36				FSW4-Comp	24														
Additional Instructions: Work Order/Billing: 21145598																			
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.												Samples requiring thermal preservation must be received on ice the day they are sampled or received, packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.							
Sampled by:																			
Relinquished by: (Signature)				Date	Time	Received by: (Signature)				Date	Time	Lab Use Only							
Karin Adams				8/9/24	1:10	Michelle Gonzales				8-24	1310	Received on ice: Y N							
Relinquished by: (Signature)				Date	Time	Received by: (Signature)				Date	Time	T1 T2 T3							
Michelle Gonzales				8-24	1540	Michelle Gonzales				8-24	1637								
Relinquished by: (Signature)				Date	Time	Received by: (Signature)				Date	Time	AVG Temp °C							
Michelle Gonzales				8-24	2317	Michelle Gonzales				8/2/24	815	4							
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other												Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA							
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																			

## Envirotech Analytical Laboratory

Printed: 8/12/2024 10:21:04AM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Pima Environmental Services-Carlsbad	Date Received:	08/12/24 08:15	Work Order ID:	E408108
Phone:	(575) 631-6977	Date Logged In:	08/09/24 16:29	Logged In By:	Alexa Michaels
Email:	tom@pimaoil.com	Due Date:	08/16/24 17:00 (4 day TAT)		

**Chain of Custody (COC)**

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: Couier**Comments/Resolution****Sample Turn Around Time (TAT)**

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

**Sample Cooler**

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

**Sample Container**

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

**Field Label**

20. Were field sample labels filled out with the minimum information:  
Sample ID? Yes  
Date/Time Collected? Yes  
Collectors name? No

**Sample Preservation**

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

**Multiphase Sample Matrix**

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

**Subcontract Laboratory**

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

**Client Instruction**

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.





## **Appendix F**

Hungry Horse Plan & NMOCD Correspondence - 2016

# HUNGRY HORSE, LLC

3709 S. Eunice HWY  
P.O. Box 1058  
Hobbs, NM 88241  
Office: 575-393-3386  
Fax: 575-391-4585  
[info@hungry-horse.com](mailto:info@hungry-horse.com)

DIRT WORK \* ON-SITE REMEDIATION  
SOIL TESTING \* EXCAVATION \* ELECTRICAL

30Jan16

To: Mike Bratcher, New Mexico Oil Conservation Division, Dist. II  
Reference: Flare Over-Spray  
Operator: Devon Energy Production Company  
Location: Diamond PWU 22 #1H  
API: 30-015-38334  
Legals: UL. D, Sec. 22, 19S, R29E, Eddy County  
GPS: 32.6523 -104.0697  
NM OCD: 2RP 3482

## Site Information

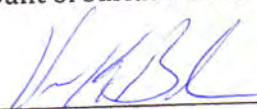
This location is on Curry Comb Road approximately .70 miles east of the intersection of Curry Comb Road (CR 235) and South Old loco Road (CR 210). A flare overspray occurred that impacted both the caliche pad and the pasture on the southeast corner of the location. Approximately .5 bbl of fluids was released. The impacted area is approximately 40' x 130'. There was/is no free standing liquid. The impact is a very thin hydrocarbon crust in the pasture with a crust and discoloration on the caliche pad.

## Work Conducted to date

Soil samples were obtained from the pad and from the pasture and were field tested and lab analysis was conducted for confirmation. Lab results indicated very low presence of Chlorides with elevated levels of TPH and BTEX at the surface.

## Proposal

I propose to treat the impacted area with a liberal application of MicroBlaze and then use large landscape rakes to rake and blend the impacted soil. This action will "break the crust" of the hydrocarbons and aid the microbes in remediation. This proposal will cause the least amount of surface disturbance, while assuring remediation of the hydrocarbons.

  
\_\_\_\_\_  
Vernon K. Black, Hungry Horse, LLC



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

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

## NM OIL CONSERVATION

ARTESIA DISTRICT

Form C-141  
Revised August 8, 2011

JAN 08 2016  
Submit 1 Copy to appropriate District Office in  
accordance with 19.15.29 NMAC.

RECEIVED

## Release Notification and Corrective Action

NAB1601139679 6137 OPERATOR ☒ Initial Report ☐ Final Report

Name of Company	Devon Energy Production Company	Contact	Rudy Zuniga Production Foreman
Address	6488 Seven Rivers Hwy Artesia, NM 88210	Telephone No.	575-390-5435
Facility Name	Diamond PWU 22 #1H	Facility Type	Oil
Surface Owner	State	Mineral Owner	State
		API No	30-015-38334

## LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
D	22	19S	29E	575	North	330	West	Eddy

Latitude: N 32° 65' 19.52"

Longitude: W 104° 07' 01.29"

## NATURE OF RELEASE

Type of Release Spill	Oil	Volume of Release	.5 bbl oil	Volume Recovered	.0 bbl
Source of Release	2 phase separator dump valve	Date and Hour of Occurrence	12.23.15 @ 11:30 am	Date and Hour of Discovery	12.23.15 @ 11:30 am
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Heather Patterson @ OCD		
By Whom?	Jesse Armendariz Assistant Production Foreman	Date and Hour	12.23.15 @ 11:40 am		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse	N/A		
If a Watercourse was Impacted, Describe Fully.* N/A					
Describe Cause of Problem and Remedial Action Taken.* 2 phase separator dump valve was stuck causing a .5 bbl oil spray release. Well was shut in to prevent further release. The dump valve was rebuilt.					
Describe Area Affected and Cleanup Action Taken.* .5 bbl oil spray was released on the East, South East side of the pad. None of the spray was recovered. The size of the affected area was 10'x20' off the pad. Environmental agency to be contacted for remediation.					
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.					
Signature: Corina Moya		OIL CONSERVATION DIVISION			
Printed Name: Corina Moya		Signed By: <i>[Signature]</i>			
Title: Field Admin Support		Approved by Environmental Specialist:			
E-mail Address: corina.moya@dvn.com		Approval Date: 1/11/16		Expiration Date: N/A	
Date: 1.5.16 Phone: 575.746.5559		Conditions of Approval: Remediation per O.C.D. Rules & Guidelines SUBMIT REMEDIATION PROPOSAL NO LATER THAN: 2/12/16			

\* Attach Additional Sheets If Necessary

2RP-3482







Devon Energy Production Company-Diamond PWU 22 #1H



Impacted are is approximately 20' x 40'.



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

January 29, 2016

VERNON BLACK

Hungry Horse Environmental

P.O. Box 1058

Hobbs, NM 88240

RE: DIAMOND PWU 22 #1H

Enclosed are the results of analyses for samples received by the laboratory on 01/26/16 16:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager





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

**Analytical Results For:**

Hungry Horse Environmental  
 VERNON BLACK  
 P.O. Box 1058  
 Hobbs NM, 88240  
 Fax To: (505) 391-4585

Received: 01/26/2016  
 Reported: 01/29/2016  
 Project Name: DIAMOND PWU 22 #1H  
 Project Number: NONE GIVEN  
 Project Location: EDDY COUNTY, NM

Sampling Date: 01/26/2016  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Jodi Henson

**Sample ID: SP 1 @ SURFACE (H600182-01)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.624	0.500	01/28/2016	ND	2.11	106	2.00	0.588	
Toluene*	25.3	0.500	01/28/2016	ND	2.06	103	2.00	1.14	
Ethylbenzene*	16.4	0.500	01/28/2016	ND	1.87	93.4	2.00	1.45	
Total Xylenes*	60.9	1.50	01/28/2016	ND	5.63	93.8	6.00	0.954	
Total BTX	103	3.00	01/28/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 114 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	01/27/2016	ND	400	100	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	1680	100	01/27/2016	ND	199	99.3	200	3.47	
DRO >C10-C28	20800	100	01/27/2016	ND	190	95.0	200	4.27	

Surrogate: 1-Chlorooctane 176 % 35-147

Surrogate: 1-Chlorooctadecane 486 % 28-171

\*=Accredited Analyte

## Cardinal Laboratories

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 client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Caley D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Hungry Horse Environmental  
 VERNON BLACK  
 P.O. Box 1058  
 Hobbs NM, 88240  
 Fax To: (505) 391-4585

Received: 01/26/2016  
 Reported: 01/29/2016  
 Project Name: DIAMOND PWU 22 #1H  
 Project Number: NONE GIVEN  
 Project Location: EDDY COUNTY, NM

Sampling Date: 01/26/2016  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Jodi Henson

**Sample ID: SP 1 @ 6" (H600182-02)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	01/28/2016	ND	2.11	106	2.00	0.588	
Toluene*	12.4	0.500	01/28/2016	ND	2.06	103	2.00	1.14	
Ethylbenzene*	7.95	0.500	01/28/2016	ND	1.87	93.4	2.00	1.45	
Total Xylenes*	31.1	1.50	01/28/2016	ND	5.63	93.8	6.00	0.954	
Total BTX	51.5	3.00	01/28/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 120 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/27/2016	ND	400	100	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	777	50.0	01/27/2016	ND	199	99.3	200	3.47	
DRO >C10-C28	3140	50.0	01/27/2016	ND	190	95.0	200	4.27	

Surrogate: 1-Chlorooctane 127 % 35-147

Surrogate: 1-Chlorooctadecane 115 % 28-171

\*=Accredited Analyte

Cardinal Laboratories

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Celest D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

Hungry Horse Environmental  
 VERNON BLACK  
 P.O. Box 1058  
 Hobbs NM, 88240  
 Fax To: (505) 391-4585

Received: 01/26/2016  
 Reported: 01/29/2016  
 Project Name: DIAMOND PWU 22 #1H  
 Project Number: NONE GIVEN  
 Project Location: EDDY COUNTY, NM

Sampling Date: 01/26/2016  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Jodi Henson

**Sample ID: SP 2 @ SURFACE (H600182-03)**

BTX 8021B		mg/kg	Analyzed By: MS				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/28/2016	ND	2.11	106	2.00	0.588	
Toluene*	0.316	0.050	01/28/2016	ND	2.06	103	2.00	1.14	
Ethylbenzene*	0.681	0.050	01/28/2016	ND	1.87	93.4	2.00	1.45	
Total Xylenes*	3.81	0.150	01/28/2016	ND	5.63	93.8	6.00	0.954	
Total BTX	4.80	0.300	01/28/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 150 % 73.6-140

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP				S-06		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/27/2016	ND	400	100	400	0.00	

TPH 8015M		mg/kg	Analyzed By: MS				S-06		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	267	100	01/27/2016	ND	199	99.3	200	3.47	
DRO >C10-C28	11900	100	01/27/2016	ND	190	95.0	200	4.27	

Surrogate: 1-Chlorooctane 147 % 35-147

Surrogate: 1-Chlorooctadecane 274 % 28-171

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Hungry Horse Environmental  
 VERNON BLACK  
 P.O. Box 1058  
 Hobbs NM, 88240  
 Fax To: (505) 391-4585

Received: 01/26/2016  
 Reported: 01/29/2016  
 Project Name: DIAMOND PWU 22 #1H  
 Project Number: NONE GIVEN  
 Project Location: EDDY COUNTY, NM

Sampling Date: 01/26/2016  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Jodi Henson

**Sample ID: SP 2 @ 6" (H600182-04)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2016	ND	2.11	106	2.00	0.588	
Toluene*	0.057	0.050	01/27/2016	ND	2.06	103	2.00	1.14	
Ethylbenzene*	0.060	0.050	01/27/2016	ND	1.87	93.4	2.00	1.45	
Total Xylenes*	0.266	0.150	01/27/2016	ND	5.63	93.8	6.00	0.954	
Total BTEX	0.383	0.300	01/27/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 109 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/27/2016	ND	400	100	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	35.7	10.0	01/27/2016	ND	193	96.4	200	7.80	
DRO >C10-C28	1330	10.0	01/27/2016	ND	170	85.0	200	21.0	

Surrogate: 1-Chlorooctane 85.6 % 35-147

Surrogate: 1-Chlorooctadecane 73.8 % 28-171

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





**CARDINAL**  
Laboratories



### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476										<b>BILL TO</b>										<b>ANALYSIS REQUEST</b>																			
Company Name: <u>Hungry Horse, LLC</u> Project Manager: <u>Vernon K. Black</u> Address: <u>PO Box 1058</u> City: <u>Hobbs</u> State: <u>NM</u> Zip: <u>88241</u> Phone #: <u>575-631-2253</u> Fax #: <u>575-391-4585</u> Project #: _____ Project Owner: <u>Devon</u> Project Name: <u>Diamond 2 PWU 22 114</u> Project Location: <u>Eddie County</u> Sampler Name: <u>Vernon K. Black</u>										P.O. #: Company: Attn: Address: City: State: Zip: Phone #: Fax #:																													
FOR LAB USE ONLY Lab I.D. Sample I.D. <u>HL00182</u> 1 Sp1 surface 2 Sp1 6in 3 Sp2 surface 4 Sp2 6in										MATRIX (G)RAB OR (COMP) # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER ACID/BASE ICE / COOL OTHER										PRESERV DATE TIME 1-26-16 1:05 { 1:25 1:45 2:10										SAMPLING Chlorides BTEX TPH									

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

PLEASE NOTE: Clearly and accurately describe the problem and the equipment involved. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing within 30 days of the date of service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of data, 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:  Relinquished By: _____ Date: 1-26-16 Time: 4:10 Delivered By: (Circle One) Sampler - UPS - Bus - Other: 10.20	Received By:  Received By: _____ Date: _____ Time: _____ Sample Condition Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: _____ Add'l Fax #: _____ REMARKS: _____
---	---	--

\* Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



**Bratcher, Mike, EMNRD**

---

**From:** Bratcher, Mike, EMNRD  
**Sent:** Friday, February 19, 2016 10:15 AM  
**To:** 'Vernon Black'  
**Cc:** Fulks, Brett; Patterson, Heather, EMNRD; 'Groves, Amber'  
**Subject:** RE: Devon Diamond PWU 22 #1H

RE: Devon Energy \* Diamond PWU 22 1H \* 30-015-38334  
2RP-3482 \* Date of release: 12/23/2015

Vernon,

Your proposal for remediation of the above referenced release is approved with the following conditions and/or notations:

Based on available data, ground water may be encountered between 50' and 100' bgs in this area. Vertical depth of impact has not been defined, but the site ranking will be a minimum of 10 points. Representative soil samples are to be obtained not later than 90 days after initial application of MicroBlaze to evaluate progress, and again at 180 days after initial application. If RRAL for the site has not been achieved after 180 days, OCD will require impacted soils to be removed to a disposal.

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

If you have any questions or concerns, and for notification, please contact me.

Mike Bratcher  
NMOCD District 2  
811 S. First Street  
Artesia, NM 88210  
O: 575-748-1283 X108  
C: 575-626-0857  
F: 575-748-9720

---

**From:** Vernon Black [mailto:vblack@hungry-horse.com]  
**Sent:** Friday, February 19, 2016 7:28 AM  
**To:** Bratcher, Mike, EMNRD  
**Subject:** Devon Diamond PWU 22 #1H

Good Morning Mike,

Please see the attached work plan for the this small release.....I think it got reported inadvertently since it's less than 5 bbls. Anyway, it's not much to it, just hydrocarbons on the surface.

VKB

**Bratcher, Mike, EMNRD**

---

**From:** Vernon Black <vblack@hungry-horse.com>  
**Sent:** Friday, June 17, 2016 9:17 AM  
**To:** Bratcher, Mike, EMNRD  
**Subject:** Devon Diamond PWU 22 #1H  
**Attachments:** Devon Diamond PWU 22 #1H Lab (MBlaze).pdf

Good Morning Mike,

Please see the attached lab results obtained 90 days after the initial MicroBlaze. A significant reduction has occurred at SP #1 on the pad and at SP#2 off the edge of the pad. I'm confident that the recent moisture we've received and continual sunshine will continue to aid in the reduction of the remaining hydrocarbons. Please accept the correspondence as request for closure.

Thanks,  
Vernon K. Black  
Hungry Horse, LLC  
PO Box 1058  
Hobbs, NM 88241  
575-393-3386 office  
575-631-2253 cell



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

---

June 13, 2016

VERNON BLACK

Hungry Horse Environmental

P.O. Box 1058

Hobbs, NM 88240

RE: DIAMOND PWU 22 #1H

Enclosed are the results of analyses for samples received by the laboratory on 06/06/16 16:13.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager





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

**Analytical Results For:**

Hungry Horse Environmental  
 VERNON BLACK  
 P.O. Box 1058  
 Hobbs NM, 88240  
 Fax To: (505) 391-4585

Received:	06/06/2016	Sampling Date:	06/06/2016
Reported:	06/13/2016	Sampling Type:	Soil
Project Name:	DIAMOND PWU 22 #1H	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: SP1 1' (H601231-01)**

TPH 8015M	mg/kg		Analyzed By: CK					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>311</b>	50.0	06/08/2016	ND	173	86.5	200	3.83	
<b>DRO &gt;C10-C28</b>	<b>7720</b>	50.0	06/08/2016	ND	183	91.3	200	4.76	

Surrogate: 1-Chlorooctane 98.0 % 35-147

Surrogate: 1-Chlorooctadecane 256 % 28-171

**Sample ID: SP2 1' (H601231-02)**

TPH 8015M	mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>11.8</b>	10.0	06/08/2016	ND	173	86.5	200	3.83	
<b>DRO &gt;C10-C28</b>	<b>527</b>	10.0	06/08/2016	ND	183	91.3	200	4.76	

Surrogate: 1-Chlorooctane 70.1 % 35-147

Surrogate: 1-Chlorooctadecane 89.9 % 28-171

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside if QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
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: <u>Hungry Horse</u>				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																		
Project Manager: <u>Vernon K Black</u>				P.O. #:																						
Address: <u>3709 S Eunice Hwy</u>				Company:																						
City: <u>Hobbs</u> State: <u>NM</u> Zip: <u>88240</u>				Attn:																						
Phone #: <u>575 393-3368</u> Fax #:				Address:																						
Project #: _____ Project Owner: <u>Devon</u>				City:																						
Project Name: <u>Diamond</u>				State: _____ Zip: _____																						
Project Location: <u>Eddie</u>				Phone #:																						
Sampler Name: <u>Alberto Barajas</u>				Fax #:																						
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING		<div style="position: relative; height: 100px;"> <span style="position: absolute; left: 0; top: 0; transform: rotate(-90deg); font-size: 2em;">TPH</span> </div>																
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
<u>H601231</u>																										
<u>1</u>	<u>Spill</u>	<u>6</u>					<u>1</u>																		<u>11:00</u>	<u>6-6-16</u>
<u>2</u>	<u>Spill</u>	<u>6</u>																							<u>11:05</u>	<u>6-6-16</u>

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Relinquished By:	Date:	Received By:	Phone Result:	Yes	No	Add'l Phone #:
<u>Alberto Barajas</u>	<u>6-6-16</u>		Fax Result:	Yes	No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:			
	Time:					
Delivered By: (Circle One)	Date:	Sample Condition				
Sampler - UPS - Bus - Other:	Time:	Cool Intact				
<u>20.80c</u>		<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
		CHECKED BY:				
		(Initials)				

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

## Bratcher, Mike, EMNRD

---

**From:** Bratcher, Mike, EMNRD  
**Sent:** Thursday, July 07, 2016 7:49 AM  
**To:** Vernon Black  
**Cc:** Patterson, Heather, EMNRD  
**Subject:** RE: Devon Diamond PWU 22 #1H

2RP-3482

Vernon,

I got a little ahead of myself. The site ranking is a minimum of 10 due to depth to ground water. Data shows potential for encountering ground water at 50' – 100', so while the data has a fairly large range, OCD will err on the side of caution when it comes to depth to GW. In reviewing the approval letter, it was noted that vertical depth of impact was not defined. Do you know if that has been done?

Thanks,

Mike Bratcher  
NMOCD District 2  
811 S. First Street  
Artesia, NM 88210  
O: 575-748-1283 X108  
C: 575-626-0857  
F: 575-748-9720

---

**From:** Bratcher, Mike, EMNRD  
**Sent:** Thursday, July 07, 2016 7:39 AM  
**To:** Vernon Black  
**Cc:** Patterson, Heather, EMNRD  
**Subject:** FW: Devon Diamond PWU 22 #1H

Vernon,

I have no doubt that this project will get where it needs to be, however I can't approve it for closure until the lab data shows it to be below RRAL. I believe this site has a ranking of zero, and if so, SP1 is still a little too hot to approve closure.

Thanks,

Mike Bratcher  
NMOCD District 2  
811 S. First Street  
Artesia, NM 88210  
O: 575-748-1283 X108  
C: 575-626-0857  
F: 575-748-9720



---

**From:** Vernon Black [<mailto:vblack@hungry-horse.com>]  
**Sent:** Friday, June 17, 2016 9:17 AM  
**To:** Bratcher, Mike, EMNRD  
**Subject:** Devon Diamond PWU 22 #1H

Good Morning Mike,

Please see the attached lab results obtained 90 days after the initial MicroBlaze. A significant reduction has occurred at SP #1 on the pad and at SP#2 off the edge of the pad. I'm confident that the recent moisture we've received and continual sunshine will continue to aid in the reduction of the remaining hydrocarbons. Please accept the correspondence as request for closure.

Thanks,  
Vernon K. Black  
Hungry Horse, LLC  
PO Box 1058  
Hobbs, NM 88241  
575-393-3386 office  
575-631-2253 cell

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

QUESTIONS  
  
Action 385501

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:	6137
	Action Number:	385501
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1601139679
Incident Name	NAB1601139679 DIAMOND PWU 22 #IH @ 30-015-38334
Incident Type	Oil Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-015-38334] DIAMOND PWU 22 #001H

Location of Release Source	
Please answer all the questions in this group.	
Site Name	DIAMOND PWU 22 #IH
Date Release Discovered	12/23/2015
Surface Owner	State

Incident Details	
Please answer all the questions in this group.	
Incident Type	Oil Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Equipment Failure   Valve   Crude Oil   Released: 0 BBL   Recovered: 0 BBL   Lost: 0 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	Not answered.
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 385501

**QUESTIONS (continued)**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:	6137
	Action Number:	385501
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	More info needed to determine if this will be treated as a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Unavailable.
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

**Initial Response**

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

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

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

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

I hereby agree and sign off to the above statement	Name: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dnv.com Date: 09/20/2024
--	--

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**Santa Fe, NM 87505**

QUESTIONS, Page 3

Action 385501

**QUESTIONS (continued)**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:	6137
	Action Number:	385501
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS****Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 51 and 75 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	High
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

**Remediation Plan**

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

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

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

Chloride	(EPA 300.0 or SM4500 Cl B)	26.9
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	0
GRO+DRO	(EPA SW-846 Method 8015M)	0
BTEX	(EPA SW-846 Method 8021B or 8260B)	0
Benzene	(EPA SW-846 Method 8021B or 8260B)	0

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	04/01/2016
On what date will (or did) the final sampling or liner inspection occur	08/04/2024
On what date will (or was) the remediation complete(d)	04/01/2016
What is the estimated surface area (in square feet) that will be reclaimed	800
What is the estimated volume (in cubic yards) that will be reclaimed	30
What is the estimated surface area (in square feet) that will be remediated	800
What is the estimated volume (in cubic yards) that will be remediated	30

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

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



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**State of New Mexico**  
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**Santa Fe, NM 87505**

QUESTIONS, Page 4

Action 385501

**QUESTIONS (continued)**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 385501
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Remediation Plan (continued)</b>	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
<b>This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:</b>	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	<i>Not answered.</i>
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	<i>Not answered.</i>
(In Situ) Soil Vapor Extraction	<i>Not answered.</i>
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	<i>Not answered.</i>
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	<b>Yes</b>
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	<i>Not answered.</i>
Ground Water Abatement pursuant to 19.15.30 NMAC	<i>Not answered.</i>
OTHER (Non-listed remedial process)	<i>Not answered.</i>
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dvn.com Date: 09/20/2024
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

QUESTIONS, Page 5  
  
Action 385501

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 385501
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

<b>Deferral Requests Only</b>	
<i>Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.</i>	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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**Santa Fe, NM 87505**

QUESTIONS, Page 6

Action 385501

**QUESTIONS (continued)**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:	6137
	Action Number:	385501
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

Sampling Event Information	
Last sampling notification (C-141N) recorded	370724
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/08/2024
What was the (estimated) number of samples that were to be gathered	24
What was the sampling surface area in square feet	800

**Remediation Closure Request**

*Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.*

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	800
What was the total volume (cubic yards) remediated	30
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	800
What was the total volume (in cubic yards) reclaimed	30
Summarize any additional remediation activities not included by answers (above)	see report

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

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

I hereby agree and sign off to the above statement	Name: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dmn.com Date: 09/20/2024
--	--

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720  
**District II**  
811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS, Page 7  
  
Action 385501

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 385501
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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



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**Oil Conservation Division**  
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**Santa Fe, NM 87505**

CONDITIONS

Action 385501

**CONDITIONS**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:
	6137
	Action Number:
	385501
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

**CONDITIONS**

Created By	Condition	Condition Date
bhall	Closure approved based on conditions of approval for the remediation plan approved 2/19/2016.	9/30/2024
bhall	A reclamation report will not be accepted until reclamation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	9/30/2024
bhall	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	9/30/2024