

Incident ID	nAPP2121530174
District RP	
Facility ID	
Application ID	

## Closure

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

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

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

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

Printed Name: Dale Woodall Title: Env. Professional  
 Signature: Dale Woodall Date: 11/9/2022  
 email: dale.woodall@dvn.com Telephone: 575-748-1838

**OCD Only**

Received by: Jocelyn Harimon Date: 11/09/2022

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

Closure Approved by: Robert Hamlet Date: 1/26/2023  
 Printed Name: Robert Hamlet Title: Environmental Specialist - Advanced

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## Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	22 (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within 1/2-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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

State of New Mexico  
Oil Conservation Division

Page 4

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Printed Name: Dale Woodall Title: Env. Professional

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

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



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

September 1, 2022

Bureau of Land Management  
 620 East Green Street  
 Carlsbad, NM 88220

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

**Re: Site Assessment, Remediation, and Closure Report**  
**Rigel 20 Fed Com 1H**  
**API No. 30-015-39393**  
**GPS: Latitude 32.652235 Longitude -103.899075**  
**UL D, Sec. 20, T19S, R31E**  
**Eddy County, NM**  
**NMOCD Ref. No. NAPP2121530174**

Pima Environmental Services, LLC. (Pima) has been contracted by Devon Energy Production, LLC. (Devon) to perform a spill assessment, remediation, and submit this closure report for a Crude oil release that occurred at the Rigel 20 Fed Com 1H (Rigel). The initial C-141 was submitted on August 3, 2021 (Appendix C). This incident was assigned Incident ID NAPP2121530174 by the New Mexico Oil Conservation Division (NMOCD).

**Site Characterization**

The Rigel is located approximately twelve (12) miles South of Loco Hills, NM. This spill site is in Unit D, Section 20, Township 19S, Range 31E, Latitude 32.652235 Longitude -103.899075, Eddy County, NM. Figure 1 references a Location Map.

Per the New Mexico Bureau of Geology and Mineral Resources, the geology of sands and piedmont-slope deposits along the eastern flank of the Pecos River valley, primarily between Roswell and Carlsbad. Typically capped by thin eolian deposits. The soil in this area is made up of Berino loamy fine sands, 0 to 3 percent slopes 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 medium potential for karst geology to be present around the Rigel (Figure 3).

According to the New Mexico Office of the State Engineer, depth to the nearest groundwater in this area is 180 feet below grade surface (BGS). According to the United States Geological Survey (USGS), the nearest groundwater is 22 feet BGS. The closest waterway is the Hackberry Lake located approximately 2.23 miles to the Southwest of this location. See Appendix A for referenced water surveys.

Table 1 NMAC and Closure Criteria 19.15.29					
Depth to Groundwater (Appendix A)	Constituent & Limits				
	Chlorides	Total TPH	GRO+DRO	BTEX	Benzene
<50' (Lack of GW data)	600 mg/kg	100 mg/kg		50 mg/kg	10 mg/kg
51-100'	10,000 mg/kg	2,500 mg/kg	1,000 mg/kg	50 mg/kg	10 mg/kg
>100'	20,000 mg/kg	2,500 mg/kg	1,000 mg/kg	50 mg/kg	10 mg/kg

Reference Figure 2 for a Topographic map.

**Release Information**

**NAPP2121530174:** On July 7, 2021, a site glass broke on a 3-phase separator causing fluid release. The released fluids were calculated to be approximately 9 barrels (bbls) of crude oil and rainwater. No fluids were recovered.

**Site Assessment and Soil Sampling Results**

On June 17, 2022, Pima mobilized personnel to the site to assess the area. We sampled the impacted area. Laboratory results of this sampling event can be found in the following data table. A Site Map can be found in Figure 4.

6-21-22 Soil Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50)								
DEVON ENERGY - RIGEL 20 FED COM 1H								
Sample Date: 6-17-22		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
BG-1	0-6"	ND	ND	ND	ND	ND	0	ND
BG-2	0-6"	ND	ND	ND	ND	ND	0	ND
NSW	0-6"	ND	ND	ND	ND	ND	0	ND
SSW	0-6"	ND	ND	ND	ND	ND	0	ND
ESW	0-6"	ND	ND	ND	64	ND	64	65.9
WSW	0-6"	ND	ND	ND	33.5	ND	33.5	73.9
S-1	2'	ND	ND	ND	ND	ND	0	1520
	4'	ND	ND	ND	ND	ND	0	684
	5'	ND	ND	ND	ND	ND	0	ND
S-2	2'	ND	ND	ND	1550	725	2275	1140
	4'	ND	ND	ND	ND	ND	0	975
	5'	ND	ND	ND	ND	ND	0	ND

ND- Analyte Not Detected

**Remediation Activities**

On August 23, 2022, Devon Construction Department mobilized personnel and equipment to conduct remedial activities. They excavated the area to a depth of 5' BGS. Pima personnel collected samples to verify all contaminated soil had been removed. The contaminated soil was hauled to an approved, lined disposal facility and clean backfill material was brought in.

On August 28, 2022, after sending a 48-hour notification (Appendix C), Pima collected confirmation samples of the excavated areas. Laboratory results of this sampling event can be found in the following data table. A Confirmation Sample Map can be found in Figure 5.

8-28-22 Confirmation Soil Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50)								
DEVON ENERGY - RIGEL 20 FED COM 1H								
Sample Date: 8-28-22		NM Approved Laboratory Results						
Sample ID	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
CS-1	5'	ND	ND	ND	ND	ND	0	ND
CS-2	5'	ND	ND	ND	ND	ND	0	ND
CS-3	5'	ND	ND	ND	ND	ND	0	ND
CS-4	5'	ND	ND	ND	ND	ND	0	ND
CSW-1	5'	ND	ND	ND	ND	ND	0	ND
CSW-2	5'	ND	ND	ND	ND	ND	0	ND
CSW-3	5'	ND	ND	ND	ND	ND	0	ND
CSW-4	5'	ND	ND	ND	ND	ND	0	ND
CSW-5	5'	ND	ND	ND	ND	ND	0	ND
CSW-6	5'	ND	ND	ND	ND	ND	0	ND
CSW-7	5'	ND	ND	ND	ND	ND	0	ND
CSW-8	5'	ND	ND	ND	ND	ND	0	ND

ND- Analyte Not Detected

Complete laboratory reports can be found in Appendix E.

Based on the sample results, the bottom and sidewalls were below NMOCD Closure Criteria 19.15.29 NMAC. The contaminated material was transported to Lea Land, an NMOCD approved disposal site. The excavation was then backfilled with clean like material, machine compacted and contoured to match the surrounding terrain. See Appendix D for Photographic Documentation.

**Closure Request**

After careful review, Pima requests that this incident, NAPP2121530174 be closed. Devon has complied with the applicable closure requirements set forth in rule 19.15.19.12 NMAC.

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

Respectfully,

*Gio Gomez*

Gio Gomez  
Project Manager  
Pima Environmental Services, LLC

**Attachments**

Figures:

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

Appendices:

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



Pima Environmental Services

**Figures:**

1-Location Map

2-Topographic Map

3-Karst Map

4-Site Map

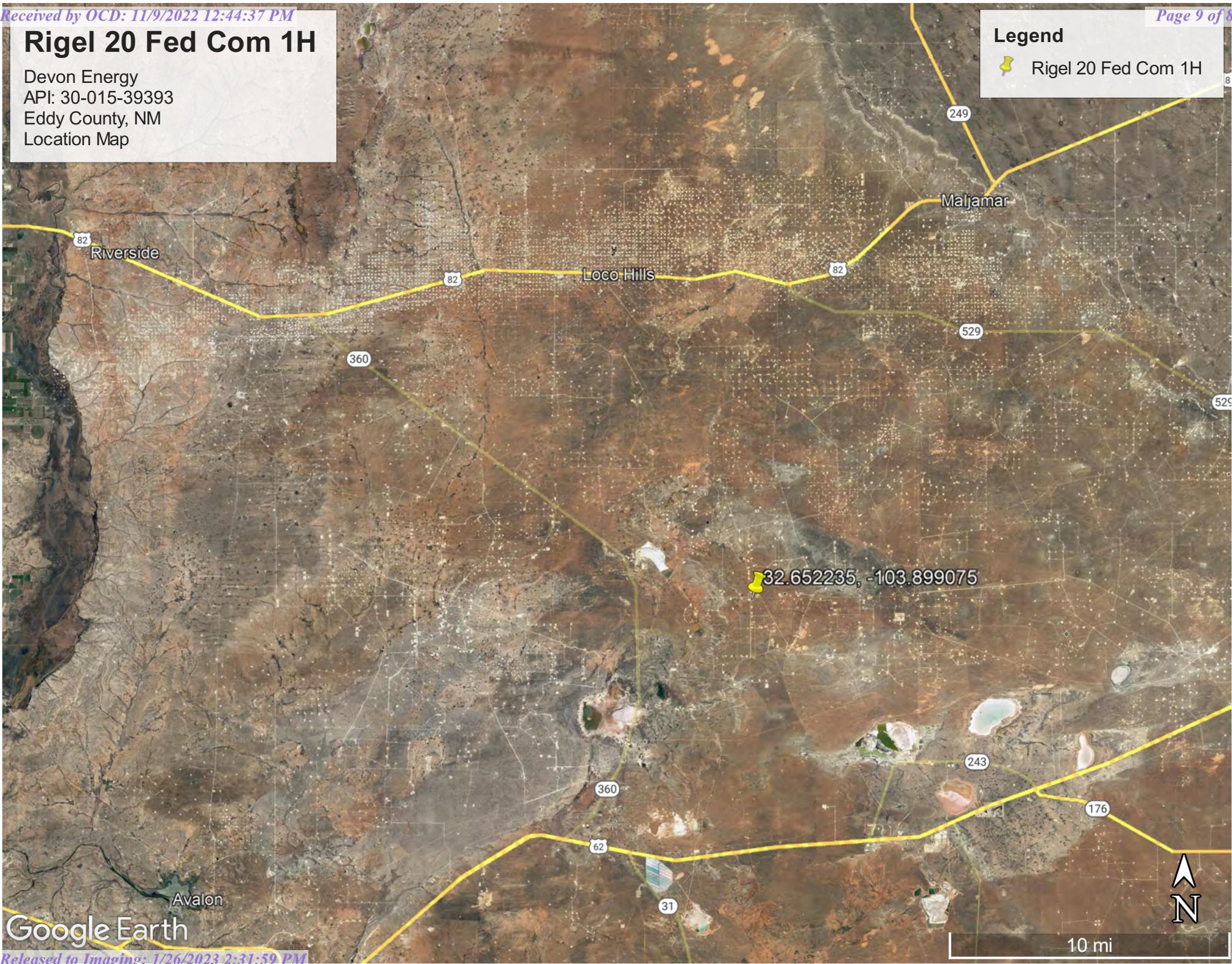
5-Confirmation Sample Map

# Rigel 20 Fed Com 1H

Devon Energy  
API: 30-015-39393  
Eddy County, NM  
Location Map

**Legend**

-  Rigel 20 Fed Com 1H



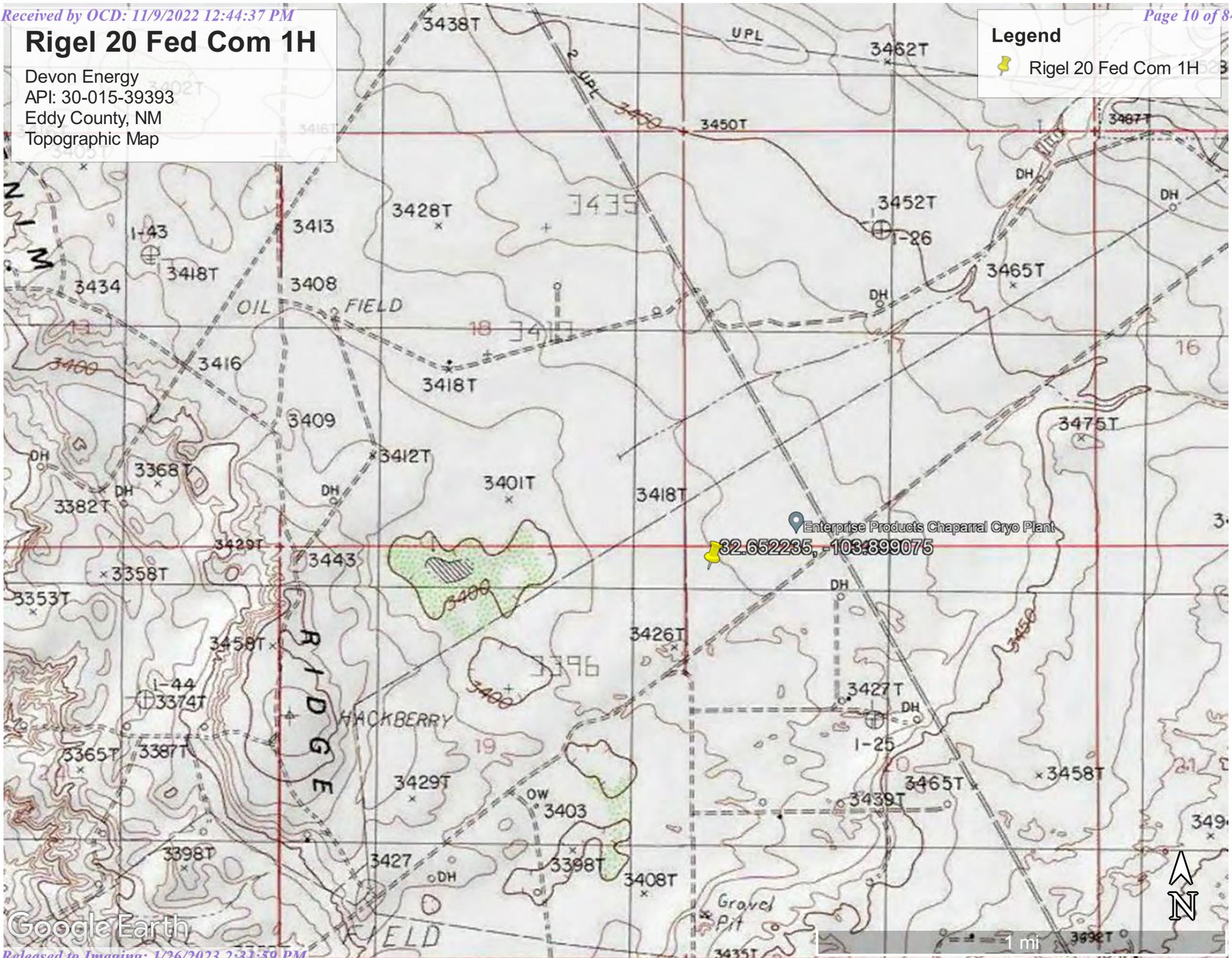
Google Earth

# Rigel 20 Fed Com 1H

Devon Energy  
API: 30-015-39393  
Eddy County, NM  
Topographic Map

**Legend**

-  Rigel 20 Fed Com 1H



Google Earth

# Rigel 20 Fed Com 1H

Devon Energy  
API: 30-015-39393  
Eddy County, NM  
Karst Map

**Legend**

-  High Karst
-  Low Karst
-  Medium Karst

 32.652235, -103.899075

Google Earth



3000 ft

# Rigel 20 Fed Com 1H

Devon Energy  
AP# 30-015-39393  
Eddy County, NM  
Site Sample Map

## Legend

-  Backgrounds/Sidewalls
-  Samples
-  rigel 20 fed com 1H
-  Spill Area-605 Sqft



 rigel 20 fed com 1H



90 ft

# Rigel 20 Fed Com 1H

Devon Energy  
API# 30-015-39393  
Eddy County, NM  
Confirmation Sample Map

## Legend

-  Composite Bottoms
-  Composite Sidewalls
-  rigel 20 fed com 1H
-  Spill Area-605 Sqft



 rigel 20 fed com 1H



Pima Environmental Services

**Appendix A**

Water Surveys:

OSE

USGS

Surface Water Map



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	POD Code	Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Well Depth	Water Depth	Water Column
<a href="#">CP 00873 POD1</a>		CP	LE	1	1	19	19S	31E		601772	3613147*	1482	340	180	160
<a href="#">CP 00357 POD1</a>		CP	ED	4	4	1	24	19S	30E	600667	3612631*	2659	630		
<a href="#">CP 00829 POD1</a>		CP	LE	2	4	16	19S	31E		606165	3614009*	3008	120		
<a href="#">CP 00357 POD2</a>		CP	ED	4	3	1	24	19S	30E	600265	3612627*	3052	630		
<a href="#">CP 00725 POD1</a>		CP	ED	1	3	3	28	19S	31E	604906	3610473*	3250	231		
<a href="#">CP 00722 POD2</a>		CP	ED	2	1	1	25	19S	30E	600276	3611620*	3399	350	65	285
<a href="#">CP 00722 POD1</a>		CP	LE	4	3	3	28	19S	31E	605106	3610273*	3525	200		
<a href="#">CP 00722 POD1</a>	R	CP	LE	4	3	3	28	19S	31E	605106	3610273*	3525	200		
<a href="#">CP 00723 POD1</a>		CP	ED	2	1	1	33	19S	31E	605111	3610071*	3700	139		
<a href="#">CP 01554 POD2</a>		CP	LE	2	2	1	22	19S	31E	607165	3613322	3916	400		
<a href="#">CP 01554 POD1</a>		CP	LE	2	2	1	22	19S	31E	607166	3613354	3917	400		
<a href="#">CP 00722 POD3</a>		CP	LE	2	4	1	33	19S	31E	605519	3609673*	4252	220	140	80

Average Depth to Water: **128 feet**  
 Minimum Depth: **65 feet**  
 Maximum Depth: **180 feet**

**Record Count:** 12

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

**Easting (X):** 603248.94

**Northing (Y):** 3613269.39

**Radius:** 5000

\*UTM location was derived from PLSS - see Help

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

6/22/22 2:21 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER



USGS Home  
Contact USGS  
Search USGS

## National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater

Geographic Area:

United States

GO

Click to hide News Bulletins

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

Groundwater levels for the Nation

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

### Search Results -- 1 sites found

site\_no list =

- 323810103554201

Minimum number of levels = 1

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

### USGS 323810103554201 19S.30E.25.12133

Available data for this site

Groundwater: Field measurements

GO

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°38'10", Longitude 103°55'42" NAD27

Land-surface elevation 3,248 feet above NAVD88

The depth of the well is 42 feet below land surface.

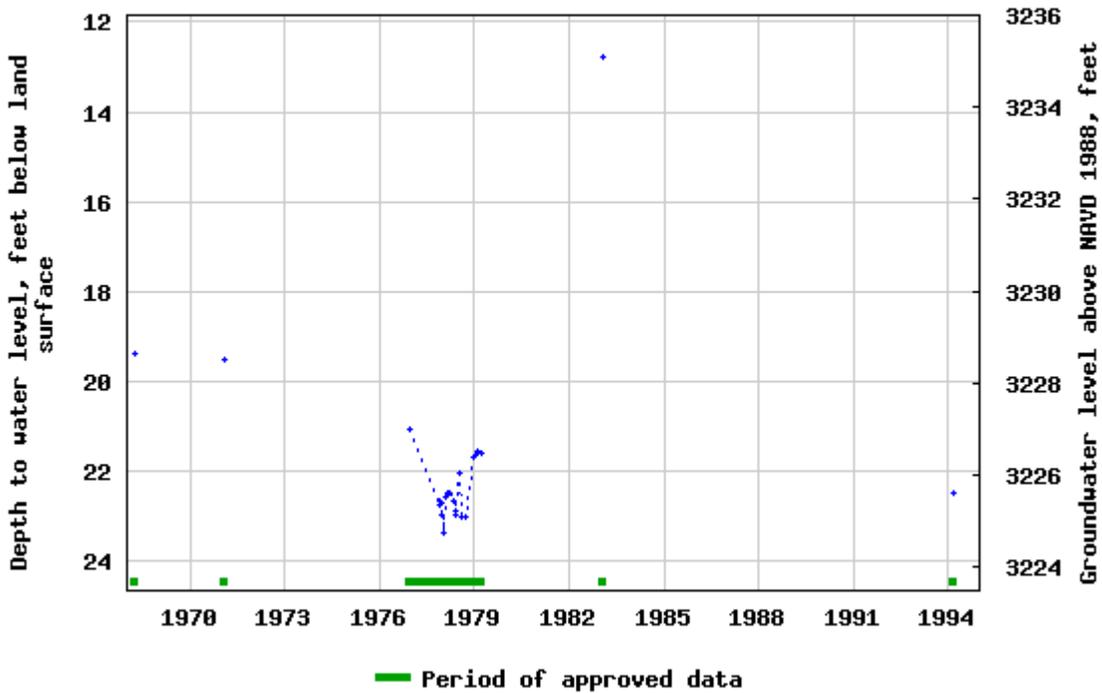
This well is completed in the Other aquifers (N9999OTHER) national aquifer.

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

#### Output formats

<a href="#">Table of data</a>
<a href="#">Tab-separated data</a>
<a href="#">Graph of data</a>
<a href="#">Reselect period</a>

USGS 323810103554201 19S.30E.25.12133



Breaks in the plot represent a gap of at least one year between field measurements.  
[Download a presentation-quality graph](#)

- [Questions about sites/data?](#)
- [Feedback on this web site](#)
- [Automated retrievals](#)
- [Help](#)
- [Data Tips](#)
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[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)

**Title: Groundwater for USA: Water Levels**

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



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

Page Last Modified: 2022-06-23 13:19:56 EDT

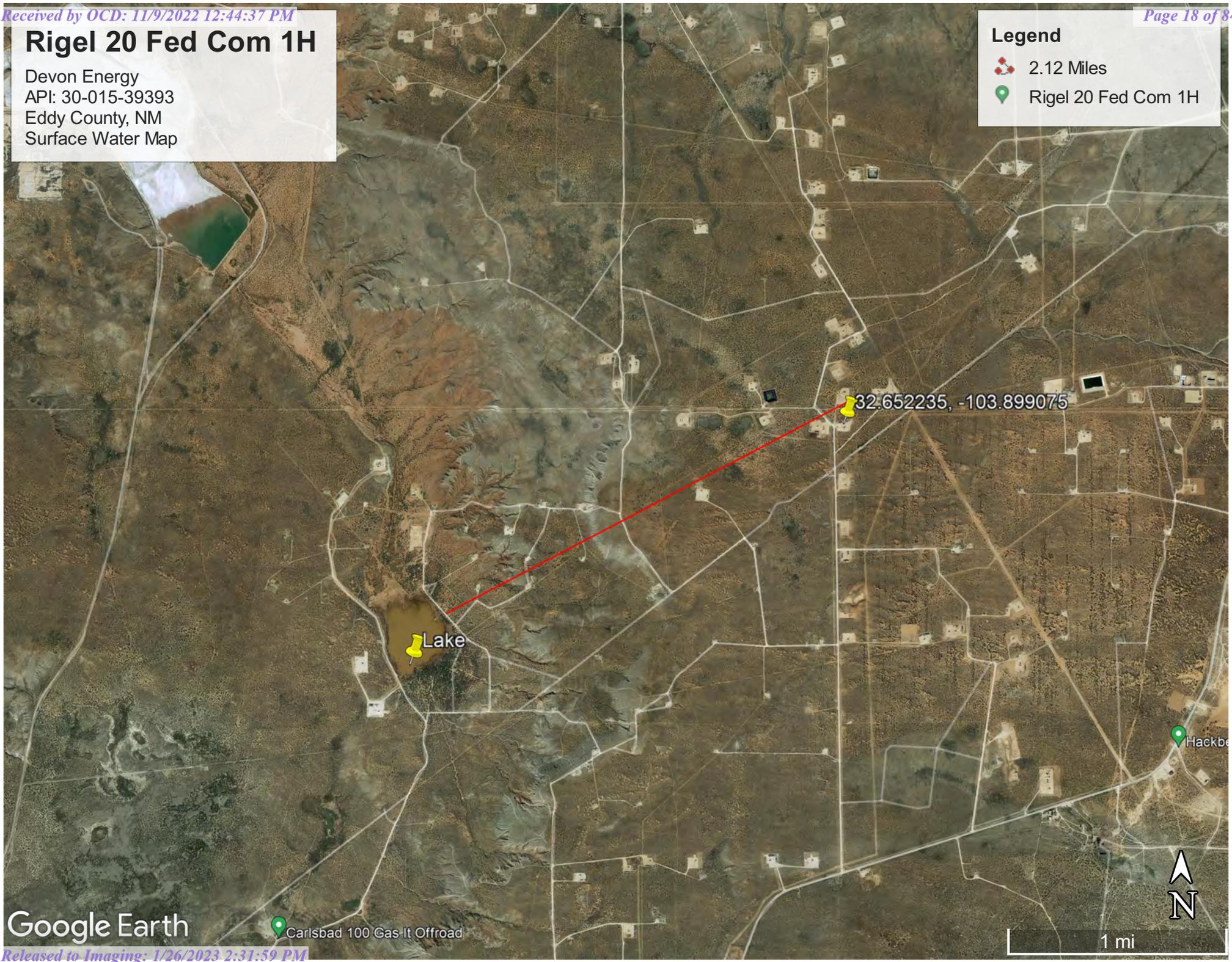
0.55 0.48 nadww02

# Rigel 20 Fed Com 1H

Devon Energy  
API: 30-015-39393  
Eddy County, NM  
Surface Water Map

**Legend**

-  2.12 Miles
-  Rigel 20 Fed Com 1H



Google Earth

 Carlsbad 100 Gas It Offroad



Pima Environmental Services

**Appendix B**

Soil Survey & Geological Data

FEMA Flood Map

Wetlands Map

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

---

## Eddy Area, New Mexico

### BA—Berino loamy fine sand, 0 to 3 percent slopes

#### Map Unit Setting

*National map unit symbol:* 1w42

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

*Mean annual precipitation:* 6 to 14 inches

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

*Frost-free period:* 180 to 260 days

*Farmland classification:* Not prime farmland

#### Map Unit Composition

*Berino and similar soils:* 99 percent

*Minor components:* 1 percent

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

#### Description of Berino

##### Setting

*Landform:* Plains, fan piedmonts

*Landform position (three-dimensional):* Riser

*Down-slope shape:* Convex

*Across-slope shape:* Linear

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

##### Typical profile

*H1 - 0 to 12 inches:* loamy fine sand

*H2 - 12 to 58 inches:* sandy clay loam

*H3 - 58 to 60 inches:* clay loam

##### Properties and qualities

*Slope:* 0 to 3 percent

*Depth to restrictive feature:* More than 80 inches

*Drainage class:* Well drained

*Runoff class:* Low

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

*Depth to water table:* More than 80 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Calcium carbonate, maximum content:* 40 percent

*Maximum salinity:* Very slightly saline to slightly saline (2.0 to 4.0 mmhos/cm)

*Sodium adsorption ratio, maximum:* 1.0

*Available water supply, 0 to 60 inches:* Moderate (about 8.4 inches)

##### Interpretive groups

*Land capability classification (irrigated):* 3e

*Land capability classification (nonirrigated):* 7e

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

---

*Hydrologic Soil Group:* B  
*Ecological site:* R042XC007NM - Loamy  
*Hydric soil rating:* No

**Minor Components**

**Pajarito**

*Percent of map unit:* 1 percent  
*Ecological site:* R042XC003NM - Loamy Sand  
*Hydric soil rating:* No

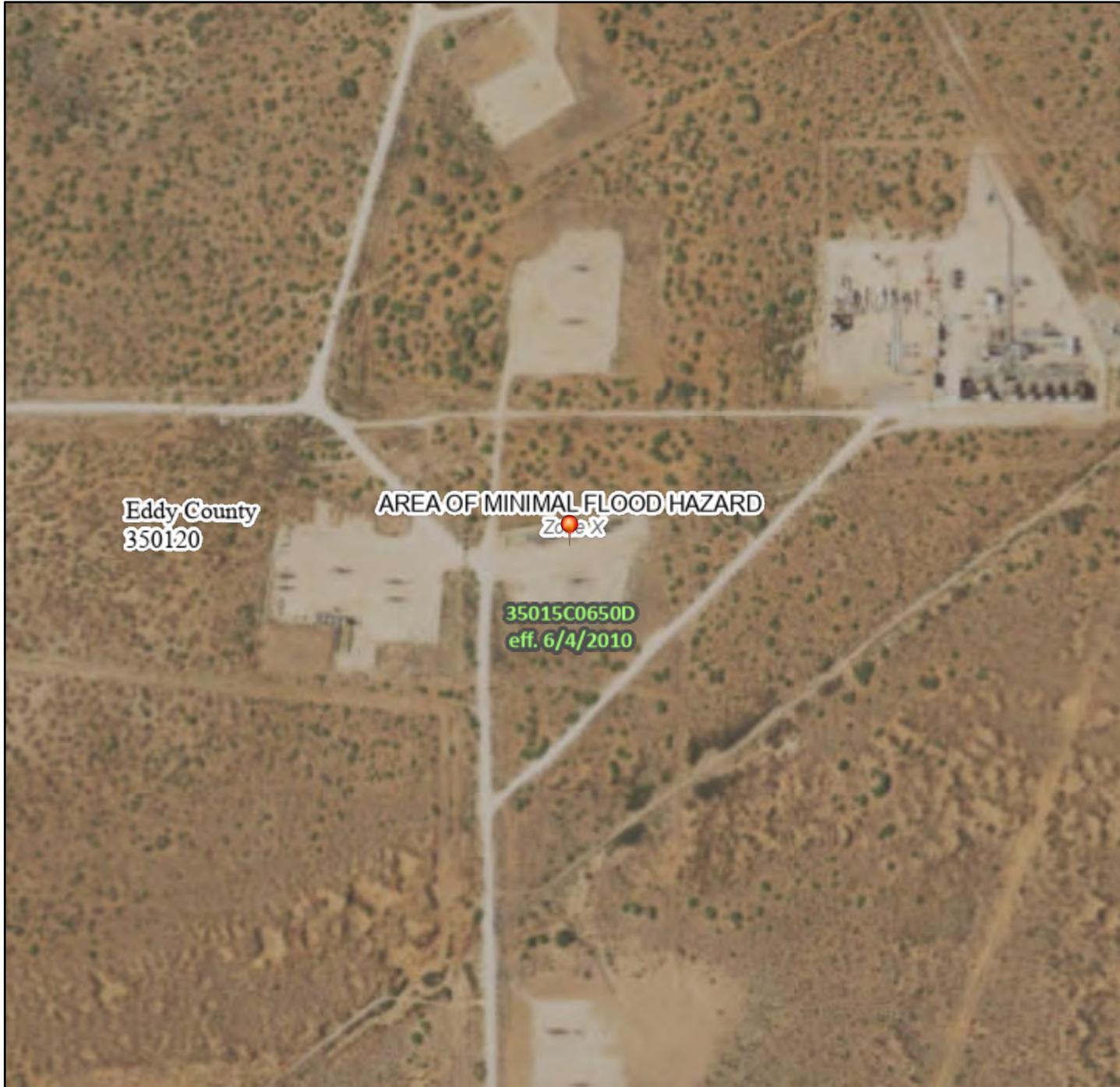
**Data Source Information**

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

# National Flood Hazard Layer FIRMMette



103°54'15"W 32°39'23"N



## Legend

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

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D

OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D

GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall

OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance
		17.5 Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
OTHER FEATURES		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature

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 **8/31/2022 at 12:50 PM** and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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

# Wetlands Map



September 15, 2022

### Wetlands

-  Estuarine and Marine Deepwater
-  Estuarine and Marine Wetland

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

-  Lake
-  Other
-  Riverine

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



Pima Environmental Services

**Appendix C**

C-141 Form

48-Hour Notification

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

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

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

Incident ID	
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

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

### Location of Release Source

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

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

Unit Letter	Section	Township	Range	County

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

### Nature and Volume of Release

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

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

Cause of Release

State of New Mexico  
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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

### Initial Response

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

<input type="checkbox"/> The source of the release has been stopped. <input type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.
If all the actions described above have <u>not</u> been undertaken, explain why:
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.
Printed Name: _____ Title: _____ Signature: <u>Kendra DeHoyos</u> Date: _____ email: _____ Telephone: _____
<b><u>OCD Only</u></b> Received by: <u>Ramona Marcus</u> Date: <u>8/3/2021</u>

Incident ID	nAPP2121530174
District RP	
Facility ID	
Application ID	

## Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	22 (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within 1/2-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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

State of New Mexico  
Oil Conservation Division

Page 4

Incident ID	nAPP2121530174
District RP	
Facility ID	
Application ID	

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

Printed Name: Dale Woodall Title: Env. Professional

Signature: Dale Woodall Date: 11/9/2022

email: dale.woodall@dvn.com Telephone: 575-748-1838

**OCD Only**

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

Incident ID	nAPP2121530174
District RP	
Facility ID	
Application ID	

## Closure

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

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

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

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

Printed Name: Dale Woodall Title: Env. Professional  
 Signature: Dale Woodall Date: 11/9/2022  
 email: dale.woodall@dvn.com Telephone: 575-748-1838

**OCD Only**

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

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

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

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



Gio PimaOil <gio@pimaoil.com>

---

**48-Hour Notification - NAPP2121530174**

1 message

---

**Tom Bynum** <tom@pimaoil.com>  
Reply-To: tom@pimaoil.com  
To: ocd.enviro@state.nm.us, OCDOOnline@state.nm.us  
Cc: Gio PimaOil <gio@pimaoil.com>, sebastian@pimaoil.com

Fri, Aug 26, 2022 at 7:07 AM

Good morning,

Pima Environmental would like to notify you that we will be collecting confirmation samples at the Rigel 20 Fed Com 1H for incident ID **NAPP2121530174**. Pima personnel are scheduled to be on site for this sampling event at approximately 7:30 a.m. on Sunday, August 28, 2022. If you have any questions or concerns, please let me know. Thank you.

**THANK YOU,**

*Tom Bynum*

Project Manager

Cell – 580-748-1613

Office – 575-964-7740



**Pima Environmental Services, LLC.**



Pima Environmental Services

**Appendix D**

Photographic Documentation



**SITE PHOTOGRAPHS  
DEVON ENERGY**

**RIGEL 20 FED COM 1H**

Pre-Remediation



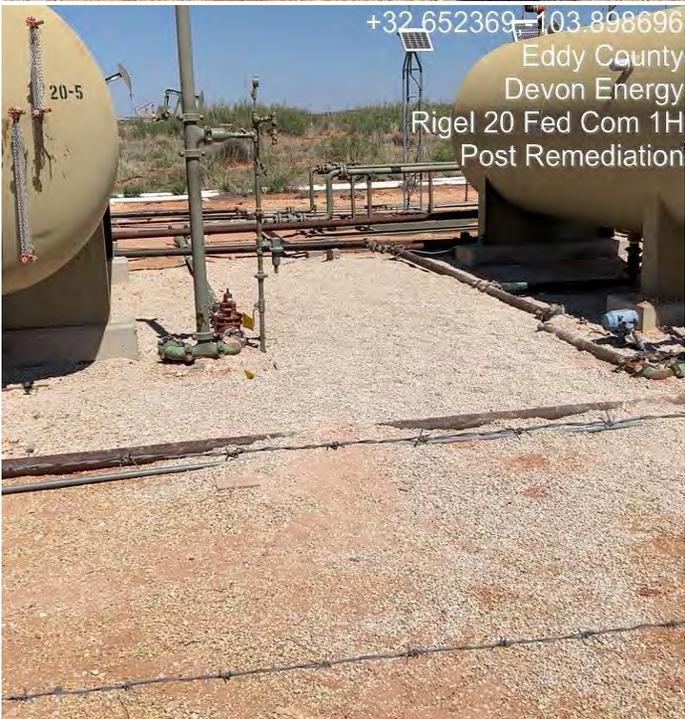


Remediation





Post Remediation





Pima Environmental Services

**Appendix E**

Laboratory Reports

Report to:  
Tom Bynum



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

### Pima Environmental Services-Carlsbad

Project Name: Rigel 20 Fed Com 1H

Work Order: E206159

Job Number: 01058-0007

Received: 6/22/2022

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
6/29/22

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.  
Envirotech Inc, holds the NM SDWA certification for data reported. (Lab #NM00979)



Date Reported: 6/29/22

Tom Bynum  
PO Box 247  
Plains, TX 79355-0247

Project Name: Rigel 20 Fed Com 1H  
Workorder: E206159  
Date Received: 6/22/2022 10:15:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/22/2022 10:15:00AM, under the Project Name: Rigel 20 Fed Com 1H.

The analytical test results summarized in this report with the Project Name: Rigel 20 Fed Com 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)

**Alexa Michaels**  
Sample Custody Officer  
Office: 505-632-1881  
[labadmin@envirotech-inc.com](mailto:labadmin@envirotech-inc.com)

Field Offices:

**Southern New Mexico Area**  
**Lynn Jarboe**  
Technical Representative/Client Services  
Office: 505-421-LABS(5227)  
Cell: 505-320-4759  
[ljjarboe@envirotech-inc.com](mailto:ljjarboe@envirotech-inc.com)

**West Texas Midland/Odessa Area**  
**Rayny Hagan**  
Technical Representative  
Office: 505-421-LABS(5227)

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

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**Sample Summary**

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

Project Name: Rigel 20 Fed Com 1H  
 Project Number: 01058-0007  
 Project Manager: Tom Bynum

**Reported:**  
 06/29/22 10:16

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BG-1	E206159-01A	Soil	06/17/22	06/22/22	Glass Jar, 4 oz.
BG-2	E206159-02A	Soil	06/17/22	06/22/22	Glass Jar, 4 oz.
NSW	E206159-03A	Soil	06/17/22	06/22/22	Glass Jar, 4 oz.
SSW	E206159-04A	Soil	06/17/22	06/22/22	Glass Jar, 4 oz.
ESW	E206159-05A	Soil	06/17/22	06/22/22	Glass Jar, 4 oz.
WSW	E206159-06A	Soil	06/17/22	06/22/22	Glass Jar, 4 oz.
S-1 2'	E206159-07A	Soil	06/17/22	06/22/22	Glass Jar, 4 oz.
S-1 4'	E206159-08A	Soil	06/17/22	06/22/22	Glass Jar, 4 oz.
S-1 5'	E206159-09A	Soil	06/17/22	06/22/22	Glass Jar, 4 oz.
S-2 2'	E206159-10A	Soil	06/17/22	06/22/22	Glass Jar, 4 oz.
S-2 4'	E206159-11A	Soil	06/17/22	06/22/22	Glass Jar, 4 oz.
S-2 5'	E206159-12A	Soil	06/17/22	06/22/22	Glass Jar, 4 oz.



### Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Rigel 20 Fed Com 1H Project Number: 01058-0007 Project Manager: Tom Bynum	<b>Reported:</b> 6/29/2022 10:16:41AM
---	---	--

**BG-1**  
**E206159-01**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2226070
Benzene	ND	0.0250	1	06/23/22	06/27/22	
Ethylbenzene	ND	0.0250	1	06/23/22	06/27/22	
Toluene	ND	0.0250	1	06/23/22	06/27/22	
o-Xylene	ND	0.0250	1	06/23/22	06/27/22	
p,m-Xylene	ND	0.0500	1	06/23/22	06/27/22	
Total Xylenes	ND	0.0250	1	06/23/22	06/27/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		83.1 %	70-130	06/23/22	06/27/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2226070
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/23/22	06/27/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		82.8 %	70-130	06/23/22	06/27/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: KM		Batch: 2226097
Diesel Range Organics (C10-C28)	ND	25.0	1	06/24/22	06/25/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/24/22	06/25/22	
<i>Surrogate: n-Nonane</i>		107 %	50-200	06/24/22	06/25/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: RAS		Batch: 2227001
Chloride	ND	20.0	1	06/27/22	06/27/22	



### Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Rigel 20 Fed Com 1H Project Number: 01058-0007 Project Manager: Tom Bynum	<b>Reported:</b> 6/29/2022 10:16:41AM
---	---	--

**BG-2**

**E206159-02**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2226070
Benzene	ND	0.0250	1	06/23/22	06/27/22	
Ethylbenzene	ND	0.0250	1	06/23/22	06/27/22	
Toluene	ND	0.0250	1	06/23/22	06/27/22	
o-Xylene	ND	0.0250	1	06/23/22	06/27/22	
p,m-Xylene	ND	0.0500	1	06/23/22	06/27/22	
Total Xylenes	ND	0.0250	1	06/23/22	06/27/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		82.1 %	70-130	06/23/22	06/27/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2226070
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/23/22	06/27/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		83.6 %	70-130	06/23/22	06/27/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: KM		Batch: 2226097
Diesel Range Organics (C10-C28)	ND	25.0	1	06/24/22	06/25/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/24/22	06/25/22	
<i>Surrogate: n-Nonane</i>		122 %	50-200	06/24/22	06/25/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: RAS		Batch: 2227001
Chloride	ND	20.0	1	06/27/22	06/28/22	



### Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Rigel 20 Fed Com 1H Project Number: 01058-0007 Project Manager: Tom Bynum	<b>Reported:</b> 6/29/2022 10:16:41AM
---	---	--

**NSW**  
**E206159-03**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2226070
Benzene	ND	0.0250	1	06/23/22	06/27/22	
Ethylbenzene	ND	0.0250	1	06/23/22	06/27/22	
Toluene	ND	0.0250	1	06/23/22	06/27/22	
o-Xylene	ND	0.0250	1	06/23/22	06/27/22	
p,m-Xylene	ND	0.0500	1	06/23/22	06/27/22	
Total Xylenes	ND	0.0250	1	06/23/22	06/27/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		82.7 %	70-130	06/23/22	06/27/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2226070
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/23/22	06/27/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		80.1 %	70-130	06/23/22	06/27/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: KM		Batch: 2226097
Diesel Range Organics (C10-C28)	ND	25.0	1	06/24/22	06/25/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/24/22	06/25/22	
<i>Surrogate: n-Nonane</i>		101 %	50-200	06/24/22	06/25/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: RAS		Batch: 2227001
Chloride	ND	20.0	1	06/27/22	06/28/22	



### Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Rigel 20 Fed Com 1H Project Number: 01058-0007 Project Manager: Tom Bynum	<b>Reported:</b> 6/29/2022 10:16:41AM
---	---	--

**SSW**

**E206159-04**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2226070
Benzene	ND	0.0250	1	06/23/22	06/27/22	
Ethylbenzene	ND	0.0250	1	06/23/22	06/27/22	
Toluene	ND	0.0250	1	06/23/22	06/27/22	
o-Xylene	ND	0.0250	1	06/23/22	06/27/22	
p,m-Xylene	ND	0.0500	1	06/23/22	06/27/22	
Total Xylenes	ND	0.0250	1	06/23/22	06/27/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		81.9 %	70-130	06/23/22	06/27/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2226070
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/23/22	06/27/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		83.8 %	70-130	06/23/22	06/27/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: KM		Batch: 2226097
Diesel Range Organics (C10-C28)	ND	25.0	1	06/24/22	06/25/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/24/22	06/25/22	
<i>Surrogate: n-Nonane</i>		98.6 %	50-200	06/24/22	06/25/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: RAS		Batch: 2227001
Chloride	ND	20.0	1	06/27/22	06/28/22	



### Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Rigel 20 Fed Com 1H Project Number: 01058-0007 Project Manager: Tom Bynum	<b>Reported:</b> 6/29/2022 10:16:41AM
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**ESW**

**E206159-05**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2226070
Benzene	ND	0.0250	1	06/23/22	06/27/22	
Ethylbenzene	ND	0.0250	1	06/23/22	06/27/22	
Toluene	ND	0.0250	1	06/23/22	06/27/22	
o-Xylene	ND	0.0250	1	06/23/22	06/27/22	
p,m-Xylene	ND	0.0500	1	06/23/22	06/27/22	
Total Xylenes	ND	0.0250	1	06/23/22	06/27/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		86.7 %	70-130	06/23/22	06/27/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2226070
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/23/22	06/27/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		84.7 %	70-130	06/23/22	06/27/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: KM		Batch: 2226097
Diesel Range Organics (C10-C28)	64.0	25.0	1	06/24/22	06/25/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/24/22	06/25/22	
<i>Surrogate: n-Nonane</i>		103 %	50-200	06/24/22	06/25/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: RAS		Batch: 2227001
Chloride	65.9	20.0	1	06/27/22	06/28/22	



### Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Rigel 20 Fed Com 1H Project Number: 01058-0007 Project Manager: Tom Bynum	<b>Reported:</b> 6/29/2022 10:16:41AM
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**WSW  
E206159-06**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2226070
Benzene	ND	0.0250	1	06/23/22	06/27/22	
Ethylbenzene	ND	0.0250	1	06/23/22	06/27/22	
Toluene	ND	0.0250	1	06/23/22	06/27/22	
o-Xylene	ND	0.0250	1	06/23/22	06/27/22	
p,m-Xylene	ND	0.0500	1	06/23/22	06/27/22	
Total Xylenes	ND	0.0250	1	06/23/22	06/27/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		85.8 %	70-130	06/23/22	06/27/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2226070
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/23/22	06/27/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		84.5 %	70-130	06/23/22	06/27/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: KM		Batch: 2226097
Diesel Range Organics (C10-C28)	33.5	25.0	1	06/24/22	06/25/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/24/22	06/25/22	
<i>Surrogate: n-Nonane</i>		106 %	50-200	06/24/22	06/25/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: RAS		Batch: 2227001
Chloride	73.9	20.0	1	06/27/22	06/28/22	



### Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Rigel 20 Fed Com 1H Project Number: 01058-0007 Project Manager: Tom Bynum	<b>Reported:</b> 6/29/2022 10:16:41AM
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**S-1 2'**  
**E206159-07**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2226070
Benzene	ND	0.0250	1	06/23/22	06/27/22	
Ethylbenzene	ND	0.0250	1	06/23/22	06/27/22	
Toluene	ND	0.0250	1	06/23/22	06/27/22	
o-Xylene	ND	0.0250	1	06/23/22	06/27/22	
p,m-Xylene	ND	0.0500	1	06/23/22	06/27/22	
Total Xylenes	ND	0.0250	1	06/23/22	06/27/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		84.5 %	70-130	06/23/22	06/27/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2226070
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/23/22	06/27/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		83.4 %	70-130	06/23/22	06/27/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2226097
Diesel Range Organics (C10-C28)	ND	25.0	1	06/24/22	06/25/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/24/22	06/25/22	
<i>Surrogate: n-Nonane</i>						
		107 %	50-200	06/24/22	06/25/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2227001
Chloride	1520	20.0	1	06/27/22	06/28/22	



### Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Rigel 20 Fed Com 1H Project Number: 01058-0007 Project Manager: Tom Bynum	<b>Reported:</b> 6/29/2022 10:16:41AM
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**S-1 4'**  
**E206159-08**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2226070
Benzene	ND	0.0250	1	06/23/22	06/27/22	
Ethylbenzene	ND	0.0250	1	06/23/22	06/27/22	
Toluene	ND	0.0250	1	06/23/22	06/27/22	
o-Xylene	ND	0.0250	1	06/23/22	06/27/22	
p,m-Xylene	ND	0.0500	1	06/23/22	06/27/22	
Total Xylenes	ND	0.0250	1	06/23/22	06/27/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		85.0 %	70-130	06/23/22	06/27/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2226070
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/23/22	06/27/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		85.1 %	70-130	06/23/22	06/27/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: KM		Batch: 2226097
Diesel Range Organics (C10-C28)	ND	25.0	1	06/24/22	06/25/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/24/22	06/25/22	
<i>Surrogate: n-Nonane</i>		104 %	50-200	06/24/22	06/25/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: RAS		Batch: 2227001
Chloride	684	20.0	1	06/27/22	06/28/22	



### Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Rigel 20 Fed Com 1H Project Number: 01058-0007 Project Manager: Tom Bynum	<b>Reported:</b> 6/29/2022 10:16:41AM
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S-1 5'

E206159-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2226070
Benzene	ND	0.0250	1	06/23/22	06/27/22	
Ethylbenzene	ND	0.0250	1	06/23/22	06/27/22	
Toluene	ND	0.0250	1	06/23/22	06/27/22	
o-Xylene	ND	0.0250	1	06/23/22	06/27/22	
p,m-Xylene	ND	0.0500	1	06/23/22	06/27/22	
Total Xylenes	ND	0.0250	1	06/23/22	06/27/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		84.3 %	70-130	06/23/22	06/27/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2226070
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/23/22	06/27/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		85.3 %	70-130	06/23/22	06/27/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2226097
Diesel Range Organics (C10-C28)	ND	25.0	1	06/24/22	06/25/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/24/22	06/25/22	
<i>Surrogate: n-Nonane</i>						
		126 %	50-200	06/24/22	06/25/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2227001
Chloride	ND	20.0	1	06/27/22	06/28/22	



### Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Rigel 20 Fed Com 1H Project Number: 01058-0007 Project Manager: Tom Bynum	<b>Reported:</b> 6/29/2022 10:16:41AM
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S-2 2'

E206159-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2226070
Benzene	ND	0.0250	1	06/23/22	06/27/22	
Ethylbenzene	ND	0.0250	1	06/23/22	06/27/22	
Toluene	ND	0.0250	1	06/23/22	06/27/22	
o-Xylene	ND	0.0250	1	06/23/22	06/27/22	
p,m-Xylene	ND	0.0500	1	06/23/22	06/27/22	
Total Xylenes	ND	0.0250	1	06/23/22	06/27/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		85.0 %	70-130	06/23/22	06/27/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2226070
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/23/22	06/27/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		84.7 %	70-130	06/23/22	06/27/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: KM		Batch: 2226097
Diesel Range Organics (C10-C28)	1550	25.0	1	06/24/22	06/25/22	
Oil Range Organics (C28-C36)	725	50.0	1	06/24/22	06/25/22	
<i>Surrogate: n-Nonane</i>		60.4 %	50-200	06/24/22	06/25/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: RAS		Batch: 2227001
Chloride	1140	20.0	1	06/27/22	06/28/22	



### Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Rigel 20 Fed Com 1H Project Number: 01058-0007 Project Manager: Tom Bynum	<b>Reported:</b> 6/29/2022 10:16:41AM
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S-2 4'

E206159-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2226070
Benzene	ND	0.0250	1	06/23/22	06/27/22	
Ethylbenzene	ND	0.0250	1	06/23/22	06/27/22	
Toluene	ND	0.0250	1	06/23/22	06/27/22	
o-Xylene	ND	0.0250	1	06/23/22	06/27/22	
p,m-Xylene	ND	0.0500	1	06/23/22	06/27/22	
Total Xylenes	ND	0.0250	1	06/23/22	06/27/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		84.3 %	70-130	06/23/22	06/27/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2226070
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/23/22	06/27/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		84.0 %	70-130	06/23/22	06/27/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: KM		Batch: 2226097
Diesel Range Organics (C10-C28)	ND	25.0	1	06/24/22	06/25/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/24/22	06/25/22	
<i>Surrogate: n-Nonane</i>		104 %	50-200	06/24/22	06/25/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: RAS		Batch: 2227001
Chloride	975	20.0	1	06/27/22	06/28/22	



### Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Rigel 20 Fed Com 1H Project Number: 01058-0007 Project Manager: Tom Bynum	<b>Reported:</b> 6/29/2022 10:16:41AM
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S-2 5'

E206159-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2226070
Benzene	ND	0.0250	1	06/23/22	06/27/22	
Ethylbenzene	ND	0.0250	1	06/23/22	06/27/22	
Toluene	ND	0.0250	1	06/23/22	06/27/22	
o-Xylene	ND	0.0250	1	06/23/22	06/27/22	
p,m-Xylene	ND	0.0500	1	06/23/22	06/27/22	
Total Xylenes	ND	0.0250	1	06/23/22	06/27/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		81.3 %	70-130	06/23/22	06/27/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2226070
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/23/22	06/27/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		81.0 %	70-130	06/23/22	06/27/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: KM		Batch: 2226097
Diesel Range Organics (C10-C28)	ND	25.0	1	06/24/22	06/25/22	
Oil Range Organics (C28-C36)	ND	50.0	1	06/24/22	06/25/22	
<i>Surrogate: n-Nonane</i>		122 %	50-200	06/24/22	06/25/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: RAS		Batch: 2227001
Chloride	ND	20.0	1	06/27/22	06/28/22	



### QC Summary Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Rigel 20 Fed Com 1H Project Number: 01058-0007 Project Manager: Tom Bynum	<b>Reported:</b> 6/29/2022 10:16:41AM
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#### Volatile Organics by EPA 8021B

Analyst: IY

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 (2226070-BLK1)

Prepared: 06/23/22 Analyzed: 06/27/22

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	6.94		8.00		86.8			70-130	

#### LCS (2226070-BS1)

Prepared: 06/23/22 Analyzed: 06/27/22

Benzene	5.54	0.0250	5.00		111			70-130	
Ethylbenzene	5.49	0.0250	5.00		110			70-130	
Toluene	5.89	0.0250	5.00		118			70-130	
o-Xylene	5.38	0.0250	5.00		108			70-130	
p,m-Xylene	11.1	0.0500	10.0		111			70-130	
Total Xylenes	16.5	0.0250	15.0		110			70-130	
Surrogate: 4-Bromochlorobenzene-PID	6.82		8.00		85.3			70-130	

#### Matrix Spike (2226070-MS1)

Source: E206159-03

Prepared: 06/23/22 Analyzed: 06/27/22

Benzene	5.39	0.0250	5.00	ND	108			54-133	
Ethylbenzene	5.30	0.0250	5.00	ND	106			61-133	
Toluene	5.69	0.0250	5.00	ND	114			61-130	
o-Xylene	5.19	0.0250	5.00	ND	104			63-131	
p,m-Xylene	10.7	0.0500	10.0	ND	107			63-131	
Total Xylenes	15.9	0.0250	15.0	ND	106			63-131	
Surrogate: 4-Bromochlorobenzene-PID	6.73		8.00		84.2			70-130	

#### Matrix Spike Dup (2226070-MSD1)

Source: E206159-03

Prepared: 06/23/22 Analyzed: 06/27/22

Benzene	5.55	0.0250	5.00	ND	111		2.89	20	
Ethylbenzene	5.48	0.0250	5.00	ND	110		3.39	20	
Toluene	5.89	0.0250	5.00	ND	118		3.39	20	
o-Xylene	5.37	0.0250	5.00	ND	107		3.45	20	
p,m-Xylene	11.1	0.0500	10.0	ND	111		3.36	20	
Total Xylenes	16.5	0.0250	15.0	ND	110		3.39	20	
Surrogate: 4-Bromochlorobenzene-PID	6.66		8.00		83.3			70-130	



### QC Summary Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Rigel 20 Fed Com 1H Project Number: 01058-0007 Project Manager: Tom Bynum	<b>Reported:</b> 6/29/2022 10:16:41AM
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#### Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

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 (2226070-BLK1)**

Prepared: 06/23/22 Analyzed: 06/27/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.49		8.00		81.2	70-130			

**LCS (2226070-BS2)**

Prepared: 06/23/22 Analyzed: 06/27/22

Gasoline Range Organics (C6-C10)	39.8	20.0	50.0		79.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.56		8.00		82.0	70-130			

**Matrix Spike (2226070-MS2)**

Source: E206159-03

Prepared: 06/23/22 Analyzed: 06/27/22

Gasoline Range Organics (C6-C10)	40.4	20.0	50.0	ND	80.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.41		8.00		80.1	70-130			

**Matrix Spike Dup (2226070-MSD2)**

Source: E206159-03

Prepared: 06/23/22 Analyzed: 06/27/22

Gasoline Range Organics (C6-C10)	43.3	20.0	50.0	ND	86.6	70-130	6.83	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.73		8.00		84.1	70-130			



### QC Summary Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Rigel 20 Fed Com 1H Project Number: 01058-0007 Project Manager: Tom Bynum	<b>Reported:</b> 6/29/2022 10:16:41AM
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#### 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 (2226097-BLK1)**

Prepared: 06/24/22 Analyzed: 06/25/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	52.6		50.0		105	50-200			

**LCS (2226097-BS1)**

Prepared: 06/24/22 Analyzed: 06/25/22

Diesel Range Organics (C10-C28)	506	25.0	500		101	38-132			
Surrogate: <i>n</i> -Nonane	51.1		50.0		102	50-200			

**Matrix Spike (2226097-MS1)**

Source: E206159-04

Prepared: 06/24/22 Analyzed: 06/25/22

Diesel Range Organics (C10-C28)	518	25.0	500	ND	104	38-132			
Surrogate: <i>n</i> -Nonane	48.8		50.0		97.6	50-200			

**Matrix Spike Dup (2226097-MSD1)**

Source: E206159-04

Prepared: 06/24/22 Analyzed: 06/25/22

Diesel Range Organics (C10-C28)	533	25.0	500	ND	107	38-132	2.95	20	
Surrogate: <i>n</i> -Nonane	53.4		50.0		107	50-200			



### QC Summary Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Rigel 20 Fed Com 1H Project Number: 01058-0007 Project Manager: Tom Bynum	<b>Reported:</b> 6/29/2022 10:16:41AM
---	---	--

#### Anions by EPA 300.0/9056A

Analyst: RAS

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

**Blank (2227001-BLK1)**

Prepared: 06/27/22 Analyzed: 06/27/22

Chloride ND 20.0

**LCS (2227001-BS1)**

Prepared: 06/27/22 Analyzed: 06/27/22

Chloride 236 20.0 250 94.5 90-110

**Matrix Spike (2227001-MS1)**

Source: E206159-01

Prepared: 06/27/22 Analyzed: 06/27/22

Chloride 241 20.0 250 ND 96.3 80-120

**Matrix Spike Dup (2227001-MSD1)**

Source: E206159-01

Prepared: 06/27/22 Analyzed: 06/27/22

Chloride 242 20.0 250 ND 96.8 80-120 0.468 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:	Rigel 20 Fed Com 1H	
PO Box 247	Project Number:	01058-0007	<b>Reported:</b>
Plains TX, 79355-0247	Project Manager:	Tom Bynum	06/29/22 10:16

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

Note (1): Methods marked with \*\* are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Client: Pima Environmental Services		Bill To		Lab Use Only		TAT			EPA Program								
Project: <u>Rigel 20 Fed Com 1H</u>		Attention: <u>Devon Energy</u>		Lab WO# <u>E200159</u>		Job Number <u>01058-0007</u>			1D	2D	3D	Standard	CWA	SDWA			
Project Manager: Tom Bynum		Address:		Address:		City, State, Zip		City, State, Zip		Phone:		Email:		RCRA			
Address: 5614 N. Lovington Hwy.		City, State, Zip Hobbs, NM, 88240		City, State, Zip		Phone:		Email:		Pima Project # <u>156</u>		State					
Phone: 580-748-1613		Email: tom@pimaoil.com		Report due by:		Analysis and Method		NM		CO		UT		AZ		TX	

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	Remarks
9:00	6/17/22	S		B6-1	1							X		
9:05				B6-2	2									
9:10				N.S.W	3									
9:15				S.S.W	4									
9:20				E.S.W	5									
9:25				W.S.W	6									
9:30				S-1 2'	7									
9:35				S-1 4'	8									
9:40				S-1 5'	9									
9:45				S-2 2'	10									

Additional Instructions:

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

Sampled by: Dash Dougless

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature) <u>[Signature]</u>	Date <u>6-21-22</u>	Time <u>2:55 P</u>	Received by: (Signature) <u>[Signature]</u>	Date <u>6-21-22</u>	Time <u>3:45</u>	Lab Use Only
Relinquished by: (Signature) <u>[Signature]</u>	Date <u>6-21-22</u>	Time <u>4:15</u>	Received by: (Signature) <u>[Signature]</u>	Date <u>6/21/22</u>	Time <u>10:15</u>	Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1 _____ T2 _____ T3 _____
AVG Temp °C <u>4</u>						

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: <u>Rigel 20 Fed Com 1H</u>		Attention: <u>Devon Energy</u>		Lab WO# <u>E200159</u>		Job Number <u>01058-0007</u>			1D	2D	3D	Standard	CWA	SDWA	
Project Manager: Tom Bynum		Address:		Analysis and Method					X						
Address: 5614 N. Lovington Hwy.		City, State, Zip		DRO/ORO by 8015		GRO/DRO by 8015		BTEX by 8021		VOC by 8260		Metals 6010		Chloride 300.0	
City, State, Zip Hobbs, NM, 88240		Phone:													
Phone: 580-748-1613		Email:													
Email: tom@pimaoil.com		Pima Project # <u>156</u>													
Report due by:															

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks
9:50	6/17/22	S		S-2 4'	11							X		
9:55	L	L		S-2 5'	12							L		

**Additional Instructions:**

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

Sampled by: Josh Dougless

Relinquished by: (Signature) Ned Rufers Date 6/21/22 Time 2:55P Received by: (Signature) Josh Dougless Date 6-21-22 Time 3:45

Relinquished by: (Signature) [Signature] Date 6-21-22 Time 4:15 Received by: (Signature) Carla Chuta Date 6/22/22 Time 10:15

Relinquished by: (Signature) \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_ Received by: (Signature) \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

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.



Envirotech Analytical Laboratory

Printed: 6/22/2022 12:20:33PM

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: 06/22/22 10:15 Work Order ID: E206159
Phone: (575) 631-6977 Date Logged In: 06/22/22 08:57 Logged In By: Caitlin Christian
Email: tom@pimaoil.com Due Date: 06/28/22 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

Carrier: UPS

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

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

Empty box for client instruction.

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

Date



envirotech Inc.

Report to:  
Tom Bynum



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

### Pima Environmental Services-Carlsbad

Project Name: Rigel 20 Fed Com 1H

Work Order: E208166

Job Number: 01058-0007

Received: 8/31/2022

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
8/31/22

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.  
Envirotech Inc, holds the NM SDWA certification for data reported. (Lab #NM00979)

Date Reported: 8/31/22



Tom Bynum  
PO Box 247  
Plains, TX 79355-0247

Project Name: Rigel 20 Fed Com 1H  
Workorder: E208166  
Date Received: 8/31/2022 10:00:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/31/2022 10:00:00AM, under the Project Name: Rigel 20 Fed Com 1H.

The analytical test results summarized in this report with the Project Name: Rigel 20 Fed Com 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)

**Alexa Michaels**  
Sample Custody Officer  
Office: 505-632-1881  
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**Southern New Mexico Area**  
**Lynn Jarboe**  
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Office: 505-421-LABS(5227)  
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[ljjarboe@envirotech-inc.com](mailto:ljjarboe@envirotech-inc.com)

**West Texas Midland/Odessa Area**  
**Rayny Hagan**  
Technical Representative  
Office: 505-421-LABS(5227)

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

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### Sample Summary

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Rigel 20 Fed Com 1H Project Number: 01058-0007 Project Manager: Tom Bynum	<b>Reported:</b> 08/31/22 17:47
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CS-1	E208166-01A	Soil	08/28/22	08/31/22	Glass Jar, 4 oz.
CS-2	E208166-02A	Soil	08/28/22	08/31/22	Glass Jar, 4 oz.
CS-3	E208166-03A	Soil	08/28/22	08/31/22	Glass Jar, 4 oz.
CS-4	E208166-04A	Soil	08/28/22	08/31/22	Glass Jar, 4 oz.
CSW-1	E208166-05A	Soil	08/28/22	08/31/22	Glass Jar, 4 oz.
CSW-2	E208166-06A	Soil	08/28/22	08/31/22	Glass Jar, 4 oz.
CSW-3	E208166-07A	Soil	08/28/22	08/31/22	Glass Jar, 4 oz.
CSW-4	E208166-08A	Soil	08/28/22	08/31/22	Glass Jar, 4 oz.
CSW-5	E208166-09A	Soil	08/28/22	08/31/22	Glass Jar, 4 oz.
CSW-6	E208166-10A	Soil	08/28/22	08/31/22	Glass Jar, 4 oz.
CSW-7	E208166-11A	Soil	08/28/22	08/31/22	Glass Jar, 4 oz.
CSW-8	E208166-12A	Soil	08/28/22	08/31/22	Glass Jar, 4 oz.

## Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Rigel 20 Fed Com 1H Project Number: 01058-0007 Project Manager: Tom Bynum	<b>Reported:</b> 8/31/2022 5:47:57PM
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## CS-1

## E208166-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2236031
Benzene	ND	0.0250	1	08/31/22	08/31/22	
Ethylbenzene	ND	0.0250	1	08/31/22	08/31/22	
Toluene	ND	0.0250	1	08/31/22	08/31/22	
o-Xylene	ND	0.0250	1	08/31/22	08/31/22	
p,m-Xylene	ND	0.0500	1	08/31/22	08/31/22	
Total Xylenes	ND	0.0250	1	08/31/22	08/31/22	
<i>Surrogate: Bromofluorobenzene</i>	93.4 %	70-130		08/31/22	08/31/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	97.3 %	70-130		08/31/22	08/31/22	
<i>Surrogate: Toluene-d8</i>	97.9 %	70-130		08/31/22	08/31/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2236031
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/31/22	08/31/22	
<i>Surrogate: Bromofluorobenzene</i>	93.4 %	70-130		08/31/22	08/31/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	97.3 %	70-130		08/31/22	08/31/22	
<i>Surrogate: Toluene-d8</i>	97.9 %	70-130		08/31/22	08/31/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: JL		Batch: 2236021
Diesel Range Organics (C10-C28)	ND	25.0	1	08/30/22	08/31/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/30/22	08/31/22	
<i>Surrogate: n-Nonane</i>	103 %	50-200		08/30/22	08/31/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2236023
Chloride	ND	20.0	1	08/30/22	08/31/22	



### Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Rigel 20 Fed Com 1H Project Number: 01058-0007 Project Manager: Tom Bynum	<b>Reported:</b> 8/31/2022 5:47:57PM
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**CS-2**

**E208166-02**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2236031
Benzene	ND	0.0250	1	08/31/22	08/31/22	
Ethylbenzene	ND	0.0250	1	08/31/22	08/31/22	
Toluene	ND	0.0250	1	08/31/22	08/31/22	
o-Xylene	ND	0.0250	1	08/31/22	08/31/22	
p,m-Xylene	ND	0.0500	1	08/31/22	08/31/22	
Total Xylenes	ND	0.0250	1	08/31/22	08/31/22	
<i>Surrogate: Bromofluorobenzene</i>		94.9 %	70-130	08/31/22	08/31/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.8 %	70-130	08/31/22	08/31/22	
<i>Surrogate: Toluene-d8</i>		97.8 %	70-130	08/31/22	08/31/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2236031
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/31/22	08/31/22	
<i>Surrogate: Bromofluorobenzene</i>		94.9 %	70-130	08/31/22	08/31/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.8 %	70-130	08/31/22	08/31/22	
<i>Surrogate: Toluene-d8</i>		97.8 %	70-130	08/31/22	08/31/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: JL		Batch: 2236021
Diesel Range Organics (C10-C28)	ND	25.0	1	08/30/22	08/31/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/30/22	08/31/22	
<i>Surrogate: n-Nonane</i>		96.6 %	50-200	08/30/22	08/31/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2236023
Chloride	ND	20.0	1	08/30/22	08/31/22	



## Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Rigel 20 Fed Com 1H Project Number: 01058-0007 Project Manager: Tom Bynum	<b>Reported:</b> 8/31/2022 5:47:57PM
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## CS-3

## E208166-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2236031
Benzene	ND	0.0250	1	08/31/22	08/31/22	
Ethylbenzene	ND	0.0250	1	08/31/22	08/31/22	
Toluene	ND	0.0250	1	08/31/22	08/31/22	
o-Xylene	ND	0.0250	1	08/31/22	08/31/22	
p,m-Xylene	ND	0.0500	1	08/31/22	08/31/22	
Total Xylenes	ND	0.0250	1	08/31/22	08/31/22	
<i>Surrogate: Bromofluorobenzene</i>		94.6 %	70-130	08/31/22	08/31/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.4 %	70-130	08/31/22	08/31/22	
<i>Surrogate: Toluene-d8</i>		97.4 %	70-130	08/31/22	08/31/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2236031
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/31/22	08/31/22	
<i>Surrogate: Bromofluorobenzene</i>		94.6 %	70-130	08/31/22	08/31/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.4 %	70-130	08/31/22	08/31/22	
<i>Surrogate: Toluene-d8</i>		97.4 %	70-130	08/31/22	08/31/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: JL		Batch: 2236021
Diesel Range Organics (C10-C28)	ND	25.0	1	08/30/22	08/31/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/30/22	08/31/22	
<i>Surrogate: n-Nonane</i>		96.4 %	50-200	08/30/22	08/31/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2236023
Chloride	ND	20.0	1	08/30/22	08/31/22	



### Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Rigel 20 Fed Com 1H Project Number: 01058-0007 Project Manager: Tom Bynum	<b>Reported:</b> 8/31/2022 5:47:57PM
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**CS-4**

**E208166-04**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236031
Benzene	ND	0.0250	1	08/31/22	08/31/22	
Ethylbenzene	ND	0.0250	1	08/31/22	08/31/22	
Toluene	ND	0.0250	1	08/31/22	08/31/22	
o-Xylene	ND	0.0250	1	08/31/22	08/31/22	
p,m-Xylene	ND	0.0500	1	08/31/22	08/31/22	
Total Xylenes	ND	0.0250	1	08/31/22	08/31/22	
<i>Surrogate: Bromofluorobenzene</i>		93.7 %	70-130	08/31/22	08/31/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.6 %	70-130	08/31/22	08/31/22	
<i>Surrogate: Toluene-d8</i>		99.0 %	70-130	08/31/22	08/31/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236031
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/31/22	08/31/22	
<i>Surrogate: Bromofluorobenzene</i>		93.7 %	70-130	08/31/22	08/31/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.6 %	70-130	08/31/22	08/31/22	
<i>Surrogate: Toluene-d8</i>		99.0 %	70-130	08/31/22	08/31/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2236021
Diesel Range Organics (C10-C28)	ND	25.0	1	08/30/22	08/31/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/30/22	08/31/22	
<i>Surrogate: n-Nonane</i>		97.9 %	50-200	08/30/22	08/31/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236023
Chloride	ND	20.0	1	08/30/22	08/31/22	



### Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Rigel 20 Fed Com 1H Project Number: 01058-0007 Project Manager: Tom Bynum	<b>Reported:</b> 8/31/2022 5:47:57PM
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**CSW-1**

**E208166-05**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236031
Benzene	ND	0.0250	1	08/31/22	08/31/22	
Ethylbenzene	ND	0.0250	1	08/31/22	08/31/22	
Toluene	ND	0.0250	1	08/31/22	08/31/22	
o-Xylene	ND	0.0250	1	08/31/22	08/31/22	
p,m-Xylene	ND	0.0500	1	08/31/22	08/31/22	
Total Xylenes	ND	0.0250	1	08/31/22	08/31/22	
<i>Surrogate: Bromofluorobenzene</i>		93.6 %	70-130	08/31/22	08/31/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.4 %	70-130	08/31/22	08/31/22	
<i>Surrogate: Toluene-d8</i>		97.5 %	70-130	08/31/22	08/31/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236031
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/31/22	08/31/22	
<i>Surrogate: Bromofluorobenzene</i>		93.6 %	70-130	08/31/22	08/31/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.4 %	70-130	08/31/22	08/31/22	
<i>Surrogate: Toluene-d8</i>		97.5 %	70-130	08/31/22	08/31/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2236021
Diesel Range Organics (C10-C28)	ND	25.0	1	08/30/22	08/31/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/30/22	08/31/22	
<i>Surrogate: n-Nonane</i>		77.5 %	50-200	08/30/22	08/31/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236023
Chloride	ND	20.0	1	08/30/22	08/31/22	



### Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Rigel 20 Fed Com 1H Project Number: 01058-0007 Project Manager: Tom Bynum	<b>Reported:</b> 8/31/2022 5:47:57PM
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**CSW-2**

**E208166-06**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236031
Benzene	ND	0.0250	1	08/31/22	08/31/22	
Ethylbenzene	ND	0.0250	1	08/31/22	08/31/22	
Toluene	ND	0.0250	1	08/31/22	08/31/22	
o-Xylene	ND	0.0250	1	08/31/22	08/31/22	
p,m-Xylene	ND	0.0500	1	08/31/22	08/31/22	
Total Xylenes	ND	0.0250	1	08/31/22	08/31/22	
<i>Surrogate: Bromofluorobenzene</i>		90.5 %	70-130	08/31/22	08/31/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		103 %	70-130	08/31/22	08/31/22	
<i>Surrogate: Toluene-d8</i>		97.4 %	70-130	08/31/22	08/31/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236031
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/31/22	08/31/22	
<i>Surrogate: Bromofluorobenzene</i>		90.5 %	70-130	08/31/22	08/31/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		103 %	70-130	08/31/22	08/31/22	
<i>Surrogate: Toluene-d8</i>		97.4 %	70-130	08/31/22	08/31/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2236021
Diesel Range Organics (C10-C28)	ND	25.0	1	08/30/22	08/31/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/30/22	08/31/22	
<i>Surrogate: n-Nonane</i>		74.3 %	50-200	08/30/22	08/31/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236023
Chloride	ND	20.0	1	08/30/22	08/31/22	



## Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Rigel 20 Fed Com 1H Project Number: 01058-0007 Project Manager: Tom Bynum	<b>Reported:</b> 8/31/2022 5:47:57PM
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## CSW-3

## E208166-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2236031
Benzene	ND	0.0250	1	08/31/22	08/31/22	
Ethylbenzene	ND	0.0250	1	08/31/22	08/31/22	
Toluene	ND	0.0250	1	08/31/22	08/31/22	
o-Xylene	ND	0.0250	1	08/31/22	08/31/22	
p,m-Xylene	ND	0.0500	1	08/31/22	08/31/22	
Total Xylenes	ND	0.0250	1	08/31/22	08/31/22	
<i>Surrogate: Bromofluorobenzene</i>		90.9 %	70-130	08/31/22	08/31/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		105 %	70-130	08/31/22	08/31/22	
<i>Surrogate: Toluene-d8</i>		95.5 %	70-130	08/31/22	08/31/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2236031
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/31/22	08/31/22	
<i>Surrogate: Bromofluorobenzene</i>		90.9 %	70-130	08/31/22	08/31/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		105 %	70-130	08/31/22	08/31/22	
<i>Surrogate: Toluene-d8</i>		95.5 %	70-130	08/31/22	08/31/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: JL		Batch: 2236021
Diesel Range Organics (C10-C28)	ND	25.0	1	08/30/22	08/31/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/30/22	08/31/22	
<i>Surrogate: n-Nonane</i>		92.8 %	50-200	08/30/22	08/31/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2236023
Chloride	ND	20.0	1	08/30/22	08/31/22	



### Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Rigel 20 Fed Com 1H Project Number: 01058-0007 Project Manager: Tom Bynum	<b>Reported:</b> 8/31/2022 5:47:57PM
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**CSW-4**

**E208166-08**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236031
Benzene	ND	0.0250	1	08/31/22	08/31/22	
Ethylbenzene	ND	0.0250	1	08/31/22	08/31/22	
Toluene	ND	0.0250	1	08/31/22	08/31/22	
o-Xylene	ND	0.0250	1	08/31/22	08/31/22	
p,m-Xylene	ND	0.0500	1	08/31/22	08/31/22	
Total Xylenes	ND	0.0250	1	08/31/22	08/31/22	
<i>Surrogate: Bromofluorobenzene</i>		101 %	70-130	08/31/22	08/31/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.4 %	70-130	08/31/22	08/31/22	
<i>Surrogate: Toluene-d8</i>		103 %	70-130	08/31/22	08/31/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236031
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/31/22	08/31/22	
<i>Surrogate: Bromofluorobenzene</i>		101 %	70-130	08/31/22	08/31/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.4 %	70-130	08/31/22	08/31/22	
<i>Surrogate: Toluene-d8</i>		103 %	70-130	08/31/22	08/31/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2236021
Diesel Range Organics (C10-C28)	ND	25.0	1	08/30/22	08/31/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/30/22	08/31/22	
<i>Surrogate: n-Nonane</i>		92.2 %	50-200	08/30/22	08/31/22	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2236023
Chloride	ND	20.0	1	08/30/22	08/31/22	



## Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Rigel 20 Fed Com 1H Project Number: 01058-0007 Project Manager: Tom Bynum	<b>Reported:</b> 8/31/2022 5:47:57PM
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## CSW-5

## E208166-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2236031
Benzene	ND	0.0250	1	08/31/22	08/31/22	
Ethylbenzene	ND	0.0250	1	08/31/22	08/31/22	
Toluene	ND	0.0250	1	08/31/22	08/31/22	
o-Xylene	ND	0.0250	1	08/31/22	08/31/22	
p,m-Xylene	ND	0.0500	1	08/31/22	08/31/22	
Total Xylenes	ND	0.0250	1	08/31/22	08/31/22	
<i>Surrogate: Bromofluorobenzene</i>		100 %	70-130	08/31/22	08/31/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %	70-130	08/31/22	08/31/22	
<i>Surrogate: Toluene-d8</i>		103 %	70-130	08/31/22	08/31/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2236031
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/31/22	08/31/22	
<i>Surrogate: Bromofluorobenzene</i>		100 %	70-130	08/31/22	08/31/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %	70-130	08/31/22	08/31/22	
<i>Surrogate: Toluene-d8</i>		103 %	70-130	08/31/22	08/31/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: JL		Batch: 2236021
Diesel Range Organics (C10-C28)	ND	25.0	1	08/30/22	08/31/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/30/22	08/31/22	
<i>Surrogate: n-Nonane</i>		100 %	50-200	08/30/22	08/31/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2236023
Chloride	ND	20.0	1	08/30/22	08/31/22	



### Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Rigel 20 Fed Com 1H Project Number: 01058-0007 Project Manager: Tom Bynum	<b>Reported:</b> 8/31/2022 5:47:57PM
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**CSW-6**

**E208166-10**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2236031
Benzene	ND	0.0250	1	08/31/22	08/31/22	
Ethylbenzene	ND	0.0250	1	08/31/22	08/31/22	
Toluene	ND	0.0250	1	08/31/22	08/31/22	
o-Xylene	ND	0.0250	1	08/31/22	08/31/22	
p,m-Xylene	ND	0.0500	1	08/31/22	08/31/22	
Total Xylenes	ND	0.0250	1	08/31/22	08/31/22	
<i>Surrogate: Bromofluorobenzene</i>		104 %	70-130	08/31/22	08/31/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.7 %	70-130	08/31/22	08/31/22	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	08/31/22	08/31/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2236031
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/31/22	08/31/22	
<i>Surrogate: Bromofluorobenzene</i>		104 %	70-130	08/31/22	08/31/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.7 %	70-130	08/31/22	08/31/22	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	08/31/22	08/31/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: JL		Batch: 2236021
Diesel Range Organics (C10-C28)	ND	25.0	1	08/30/22	08/31/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/30/22	08/31/22	
<i>Surrogate: n-Nonane</i>		100 %	50-200	08/30/22	08/31/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2236023
Chloride	ND	20.0	1	08/30/22	08/31/22	



## Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Rigel 20 Fed Com 1H Project Number: 01058-0007 Project Manager: Tom Bynum	<b>Reported:</b> 8/31/2022 5:47:57PM
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## CSW-7

## E208166-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2236031
Benzene	ND	0.0250	1	08/31/22	08/31/22	
Ethylbenzene	ND	0.0250	1	08/31/22	08/31/22	
Toluene	ND	0.0250	1	08/31/22	08/31/22	
o-Xylene	ND	0.0250	1	08/31/22	08/31/22	
p,m-Xylene	ND	0.0500	1	08/31/22	08/31/22	
Total Xylenes	ND	0.0250	1	08/31/22	08/31/22	
<i>Surrogate: Bromofluorobenzene</i>		101 %	70-130	08/31/22	08/31/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.8 %	70-130	08/31/22	08/31/22	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	08/31/22	08/31/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2236031
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/31/22	08/31/22	
<i>Surrogate: Bromofluorobenzene</i>		101 %	70-130	08/31/22	08/31/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.8 %	70-130	08/31/22	08/31/22	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	08/31/22	08/31/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: JL		Batch: 2236021
Diesel Range Organics (C10-C28)	ND	25.0	1	08/30/22	08/31/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/30/22	08/31/22	
<i>Surrogate: n-Nonane</i>		94.4 %	50-200	08/30/22	08/31/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2236023
Chloride	ND	20.0	1	08/30/22	08/31/22	



### Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Rigel 20 Fed Com 1H Project Number: 01058-0007 Project Manager: Tom Bynum	<b>Reported:</b> 8/31/2022 5:47:57PM
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**CSW-8**

**E208166-12**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2236031
Benzene	ND	0.0250	1	08/31/22	08/31/22	
Ethylbenzene	ND	0.0250	1	08/31/22	08/31/22	
Toluene	ND	0.0250	1	08/31/22	08/31/22	
o-Xylene	ND	0.0250	1	08/31/22	08/31/22	
p,m-Xylene	ND	0.0500	1	08/31/22	08/31/22	
Total Xylenes	ND	0.0250	1	08/31/22	08/31/22	
<i>Surrogate: Bromofluorobenzene</i>		106 %	70-130	08/31/22	08/31/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		102 %	70-130	08/31/22	08/31/22	
<i>Surrogate: Toluene-d8</i>		101 %	70-130	08/31/22	08/31/22	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2236031
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/31/22	08/31/22	
<i>Surrogate: Bromofluorobenzene</i>		106 %	70-130	08/31/22	08/31/22	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		102 %	70-130	08/31/22	08/31/22	
<i>Surrogate: Toluene-d8</i>		101 %	70-130	08/31/22	08/31/22	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: JL		Batch: 2236021
Diesel Range Organics (C10-C28)	ND	25.0	1	08/30/22	08/31/22	
Oil Range Organics (C28-C36)	ND	50.0	1	08/30/22	08/31/22	
<i>Surrogate: n-Nonane</i>		106 %	50-200	08/30/22	08/31/22	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2236023
Chloride	ND	20.0	1	08/30/22	08/31/22	



### QC Summary Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Rigel 20 Fed Com 1H Project Number: 01058-0007 Project Manager: Tom Bynum	<b>Reported:</b> 8/31/2022 5:47:57PM
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#### Volatile Organic Compounds by EPA 8260B

Analyst: IY

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 (2236031-BLK1)

Prepared: 08/31/22 Analyzed: 08/31/22

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: Bromofluorobenzene	0.506		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.486		0.500		97.2	70-130			
Surrogate: Toluene-d8	0.535		0.500		107	70-130			

#### LCS (2236031-BS1)

Prepared: 08/31/22 Analyzed: 08/31/22

Benzene	2.13	0.0250	2.50		85.2	70-130			
Ethylbenzene	2.26	0.0250	2.50		90.3	70-130			
Toluene	2.15	0.0250	2.50		86.0	70-130			
o-Xylene	2.11	0.0250	2.50		84.6	70-130			
p,m-Xylene	4.19	0.0500	5.00		83.7	70-130			
Total Xylenes	6.30	0.0250	7.50		84.0	70-130			
Surrogate: Bromofluorobenzene	0.508		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.485		0.500		96.9	70-130			
Surrogate: Toluene-d8	0.513		0.500		103	70-130			

#### LCS Dup (2236031-BSD1)

Prepared: 08/31/22 Analyzed: 08/31/22

Benzene	2.05	0.0250	2.50		82.0	70-130	3.80	23	
Ethylbenzene	2.19	0.0250	2.50		87.6	70-130	3.01	27	
Toluene	2.08	0.0250	2.50		83.3	70-130	3.16	24	
o-Xylene	2.04	0.0250	2.50		81.5	70-130	3.66	27	
p,m-Xylene	4.05	0.0500	5.00		81.0	70-130	3.35	27	
Total Xylenes	6.09	0.0250	7.50		81.2	70-130	3.45	27	
Surrogate: Bromofluorobenzene	0.503		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.495		0.500		98.9	70-130			
Surrogate: Toluene-d8	0.512		0.500		102	70-130			



### QC Summary Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Rigel 20 Fed Com 1H Project Number: 01058-0007 Project Manager: Tom Bynum	<b>Reported:</b> 8/31/2022 5:47:57PM
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#### Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

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 (2236031-BLK1)**

Prepared: 08/31/22 Analyzed: 08/31/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.506		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.486		0.500		97.2	70-130			
Surrogate: Toluene-d8	0.535		0.500		107	70-130			

**LCS (2236031-BS2)**

Prepared: 08/31/22 Analyzed: 08/31/22

Gasoline Range Organics (C6-C10)	53.1	20.0	50.0		106	70-130			
Surrogate: Bromofluorobenzene	0.506		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.485		0.500		97.0	70-130			
Surrogate: Toluene-d8	0.515		0.500		103	70-130			

**LCS Dup (2236031-BSD2)**

Prepared: 08/31/22 Analyzed: 08/31/22

Gasoline Range Organics (C6-C10)	55.5	20.0	50.0		111	70-130	4.48	20	
Surrogate: Bromofluorobenzene	0.505		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.496		0.500		99.1	70-130			
Surrogate: Toluene-d8	0.514		0.500		103	70-130			



### QC Summary Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Rigel 20 Fed Com 1H Project Number: 01058-0007 Project Manager: Tom Bynum	<b>Reported:</b> 8/31/2022 5:47:57PM
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#### Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

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 (2236021-BLK1)**

Prepared: 08/30/22 Analyzed: 08/31/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	49.6		50.0		99.2	50-200			

**LCS (2236021-BS1)**

Prepared: 08/30/22 Analyzed: 08/31/22

Diesel Range Organics (C10-C28)	250	25.0	250		99.9	38-132			
Surrogate: <i>n</i> -Nonane	48.4		50.0		96.9	50-200			

**Matrix Spike (2236021-MS1)**

Source: E208166-09

Prepared: 08/30/22 Analyzed: 08/31/22

Diesel Range Organics (C10-C28)	251	25.0	250	ND	100	38-132			
Surrogate: <i>n</i> -Nonane	47.0		50.0		94.0	50-200			

**Matrix Spike Dup (2236021-MSD1)**

Source: E208166-09

Prepared: 08/30/22 Analyzed: 08/31/22

Diesel Range Organics (C10-C28)	254	25.0	250	ND	102	38-132	1.38	20	
Surrogate: <i>n</i> -Nonane	42.3		50.0		84.5	50-200			



### QC Summary Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Rigel 20 Fed Com 1H Project Number: 01058-0007 Project Manager: Tom Bynum	<b>Reported:</b> 8/31/2022 5:47:57PM
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#### Anions by EPA 300.0/9056A

Analyst: IY

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 (2236023-BLK1)**

Prepared: 08/30/22 Analyzed: 08/31/22

Chloride	ND	20.0							
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**LCS (2236023-BS1)**

Prepared: 08/30/22 Analyzed: 08/31/22

Chloride	238	20.0	250		95.4	90-110			
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**LCS Dup (2236023-BSD1)**

Prepared: 08/30/22 Analyzed: 08/31/22

Chloride	240	20.0	250		95.9	90-110	0.585	20	
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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:	Rigel 20 Fed Com 1H	
PO Box 247	Project Number:	01058-0007	<b>Reported:</b>
Plains TX, 79355-0247	Project Manager:	Tom Bynum	08/31/22 17:47

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

Note (1): Methods marked with \*\* are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Client: Pima Environmental Services Project: <u>Rigel 20 Fed Com 1H</u> Project Manager: Tom Bynum Address: 5614 N. Lovington Hwy. City, State, Zip Hobbs, NM, 88240 Phone: 580-748-1613 Email: tom@pimaoil.com Report due by:		Bill To Attention: <u>Devon Energy</u> Address: City, State, Zip Phone: Email: Pima Project # <u>156</u>		Lab Use Only Lab WO# <u>E208166</u> Job Number <u>01058-0007</u> Analysis and Method		TAT 1D <input checked="" type="checkbox"/> 2D <input type="checkbox"/> 3D <input type="checkbox"/> Standard		EPA Program CWA <input type="checkbox"/> SDWA <input type="checkbox"/> RCRA <input type="checkbox"/> State NM <input checked="" type="checkbox"/> CO <input type="checkbox"/> UT <input type="checkbox"/> AZ <input type="checkbox"/> TX <input type="checkbox"/>	
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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	Remarks
8:00	8/28/22	S	1	CS-1	1							X		
8:05				CS-2	2									
8:10				CS-3	3									
8:15				CS-H	4									
8:20				CSW-1	5									
8:25				CSW-2	6									
8:30				CSW-3	7									
8:35				CSW-4	8									
8:40				CSW-5	9									
8:45				CSW-6	10									

**Additional Instructions:** Bill To Devon Energy # 20965288

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.

Relinquished by: (Signature) <u>[Signature]</u> Date <u>8/29/22</u> Time <u>1500</u>		Received by: (Signature) <u>[Signature]</u> Date <u>8/29/22</u> Time <u>3:00</u>		Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
Relinquished by: (Signature) <u>[Signature]</u> Date <u>8/28/22</u> Time <u>2:14</u>		Received by: (Signature) <u>[Signature]</u> Date <u>8/31/22</u> Time <u>10:00</u>		T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>	

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: 8/31/2022 10:52:58AM

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:	08/31/22 10:00	Work Order ID:	E208166
Phone:	(575) 631-6977	Date Logged In:	08/30/22 08:23	Logged In By:	Caitlin Christian
Email:	tom@pimaoil.com	Due Date:	08/31/22 17:00 (0 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

Carrier: UPS

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

**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.

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

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

CONDITIONS

Action 157381

**CONDITIONS**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 157381
	Action Type: [C-141] Release Corrective Action (C-141)

**CONDITIONS**

Created By	Condition	Condition Date
rhamlet	We have received your closure report and final C-141 for Incident #NAPP2121530174 RIGEL 20 FED COM 1H, thank you. This closure is approved.	1/26/2023