

## REMEDIATION CLOSURE REPORT

Incident ID: NOY1827057150

### Morab 29-20 Fed Com 2H

API # 30-025-43775

Prepared By: Pima Environmental Services, LLC

Prepared For: Devon Energy Production, LP

November 27, 2024
Pima Environmental Services, LLC
5614 N Lovington Hwy, Hobbs, NM 88240

Hobbs, NM 88240 575-964-7740



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

Bureau of Land Management 620 E Green St. Carlsbad, NM 88220

**Re:** Remediation Closure Report

Morab 29-20 Fed Com 2H API No. 30-025-43775

**GPS: Latitude 32.101739 Longitude -103.697138** 

UL F, Sec. 29, T25S, R32E 0 FNL 0 FEL

Lea County, NM

NMOCD Incident ID NOY1827057150

Pima Environmental Services, LLC. (Pima) has been contracted by Devon Energy Production Company, LP (Devon) to perform a spill assessment and has prepared this Closure Report for a produced water release that occurred at the Morab 29-20 Fed Com 2H (Morab) site. The New Mexico Oil Conservation Division (NMOCD) has assigned this incident ID: NOY1827057150.

#### **Site Characterization**

The Morab is located approximately twenty-three (23) miles southeast of Malaga, NM. This spill site is in Unit F, Section 29, Township 25S, Range 32E, Latitude 32.101739 Longitude -103.697138, Lea County, NM. Figure 1 references a Location Map.

Per the New Mexico Bureau of Geology and Mineral Resources, the geology is in Interlayered eolian 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 Pyote loamy fine sand, 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 low potential for karst geology to be present around the Morab (Figure 3). The nearest surface water feature is a Red Bluff Reservoir located approximately 17.73 miles to the southwest of this site. A Topographic Map can be found in Figure 4.

Based on the well water data from the New Mexico Office of the State Engineer water well (C-04722-Pod1), the depth to the nearest groundwater in this vicinity measures 55 feet below grade surface (BGS), positioned 0.05 miles away from the Morab, drilled, June 1, 2023. Conversely, as per the United States Geological Survey well water data (USGS320643103465002 25S.31E.21.413314A), the nearest groundwater depth in this region is recorded at 318 feet BGS, situated approximately 5.05 miles away from the Morab with the last gauge conducted in 1959. For detailed references to water surveys and the precise locations of water wells, please refer to Appendix A, inclusive of the relevant maps.

Table 1 NMAC and Closure Criteria 19.15.29							
Depth to Groundwater		Cons	tituent & Limits				
(Appendix B)	Chlorides	Total TPH	GRO+DRO	BTEX	Benzene		
<50'	600 mg/kg	100 mg/kg		50 mg/kg	10 mg/kg		
51-100' (C-04722-POD1)	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		



#### **Release Information**

NOY1827057150: On September 19, 2018, while contractor was filling up the pump down tank, the lay flat water transfer hose split, releasing approximately 30 barrels (bbls) of 60% of fresh water 40% treated water to the ground. The crew immediately shut down and closed the valves. A vacuum truck was able to recover 24 bbls of standing fluid.

In 2018, the Morab 29-20 Fed Com 2H Pad covered an area of 1,648 square feet. By 2021, the pad size was reduced to 891 square feet, and the reclaimed area was converted into pasture. This reduction adjusted the remediation closure requirements under Rule 19.15.29.12 NMAC to a level of <50 as specified in Table 1.

#### Site Assessment and Soil Sampling Results

On October 7, 2022, Pima mobilized personnel to the site to collect soil samples from the spill area using a hand auger. The laboratory results of these sampling events are provided in the following data table. A Site Map is available in Figure 4.

	10-7-2022 Soil Sample Results								
	NMOCD Table	e 1 Closure	Criteria 19.	15.29 NM	AC (Depth to	Groundwa	ater is <50')		
	DEV	ON ENERG	Y - MORAB	29-20 FED (	COM 2H-NO	Y18270571	50		
Sample Date:	Sample Date: 10/7/22 NM Approved Laboratory Results								
Camarla ID	Daniel (DCC)	BTEX	Benzene	GRO	DRO	MRO	Total TPH	Cl	
Sample ID	Depth (BGS)	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
	1'	ND	ND	ND	ND	ND	0	447	
S-1	2'	ND	ND	ND	ND	ND	0	326	
	3'	ND	ND	ND	ND	ND	0	ND	
	1'	ND	ND	ND	ND	ND	0	ND	
S-2	2'	ND	ND	ND	ND	ND	0	ND	
	3'	ND	ND	ND	ND	ND	0	ND	
	1'	ND	ND	ND	ND	ND	0	60.3	
S-3	2'	ND	ND	ND	ND	ND	0	ND	
	3'	ND	ND	ND	ND	ND	0	ND	
	1'	ND	ND	ND	ND	ND	0	408	
S-4	2'	ND	ND	ND	ND	ND	0	127	
	3'	ND	ND	ND	ND	ND	0	ND	
SW-1	surface -3'	ND	ND	ND	ND	ND	0	ND	
SW-2	surface -3'	ND	ND	ND	ND	ND	0	ND	
SW-3	surface -3'	ND	ND	ND	ND	ND	0	ND	
SW-4	surface -3'	ND	ND	ND	ND	ND	0	ND	
BG 1	1'	ND	ND	ND	ND	ND	0	ND	
BG 2	1'	ND	ND	ND	ND	ND	0	ND	

ND/0- Analyte Not Detected

On November 25, 2024, after sending a 48-hour notification, application ID:405392 (Appendix C), Pima returned to the site to collect confirmation samples of the areas. The results of this sampling event can be found in the following table. A Confirmation Sample Map can be found in Figure 5.

11-25-24 Soil Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50')									
DEVON ENERGY Morab 29-90 Fed Com 2H-NOY1827057150									
Date: 11-25-2	25-24 NM Approved Laboratory Results								
Sample ID	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg	
CS1	Surface -4'	ND	ND	ND	ND	ND	0	84.7	
CS2	Surface -4'	ND	ND	ND	ND	ND	0	498	
CS3	Surface -4'	ND	ND	ND	ND	ND	0	536	
CS4	Surface -4'	ND	ND	ND	ND	ND	0	475	
CS5	Surface -4'	ND	ND	ND	32	52.1	84.1	504	
CSW1	Surface -4' COMP	ND	ND	ND	ND	ND	0	ND	
CSW2	Surface -4' COMP	ND	ND	ND	ND	ND	0	ND	
CSW3	Surface -4' COMP	ND	ND	ND	ND	ND	0	ND	
CSW4	Surface -4' COMP	ND	ND	ND	ND	ND	0	ND	
CSW5	Surface -4' COMP	ND	ND	ND	ND	ND	0	ND	
CSW6	Surface -4' COMP	ND	ND	ND	ND	ND	0	ND	

ND/0-Anylyte Not Detected

Pima Environmental Services
REBUTELL by: 1960 H 112/3/2024 1:04:50 PM

Hobbs, NM 88240 575-964-7740

Complete laboratory results can be found in Appendix E.



#### **Remediation Closure Request**

After careful review, Devon Energy requests that this remediation closure report for incident NOY1827057150, be approved. Devon has complied with the applicable remediation closure requirements set forth in rule 19.15.29.12 NMAC.

For questions or additional information, please feel free to contact: Devon Energy – Jim Raley at 575-689-7597 or <u>Jim.raley@dvn.com</u>. Pima Environmental – Gio Gomez – 806-782-1151 or <u>Gio@pimaoil.com</u>.

Respectfully,

Gic Gemez Gio Gomez

Project Manager

Pima Environmental Services, LLC

#### **Attachments**

#### Figures:

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

#### Appendices:

Appendix A – Referenced Water Surveys and Water-Related Maps

Appendix B – Soil Survey and Geologic Data, FEMA, and Wetlands Map

Appendix C – 48 Hour Notification

Appendix D – Photographic Documentation

Appendix E - Laboratory Reports



## Figures:

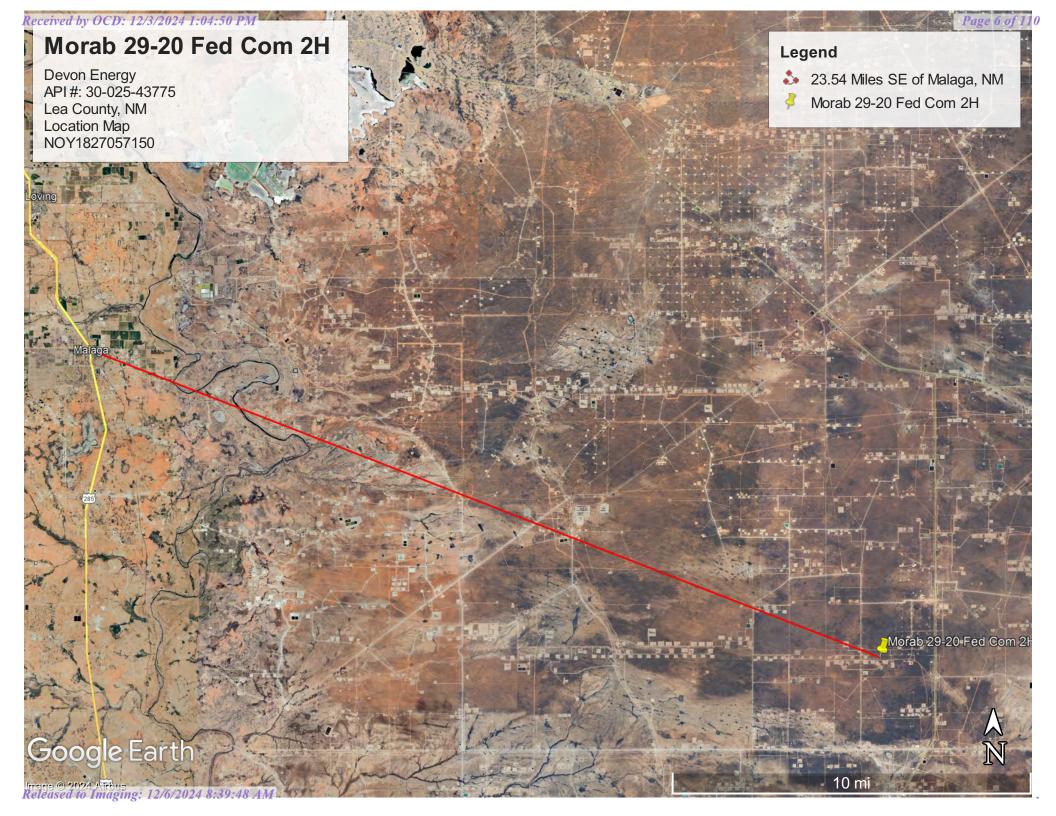
Figure 1- Location Map

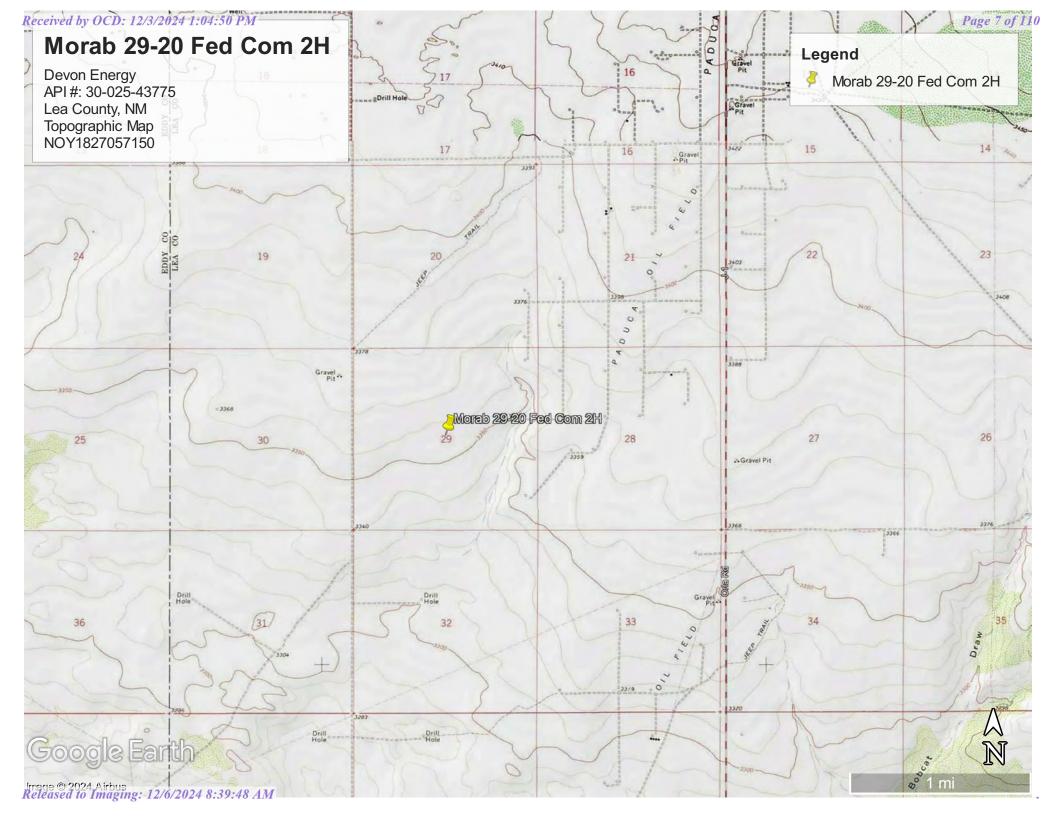
Figure 2- Topographic Map

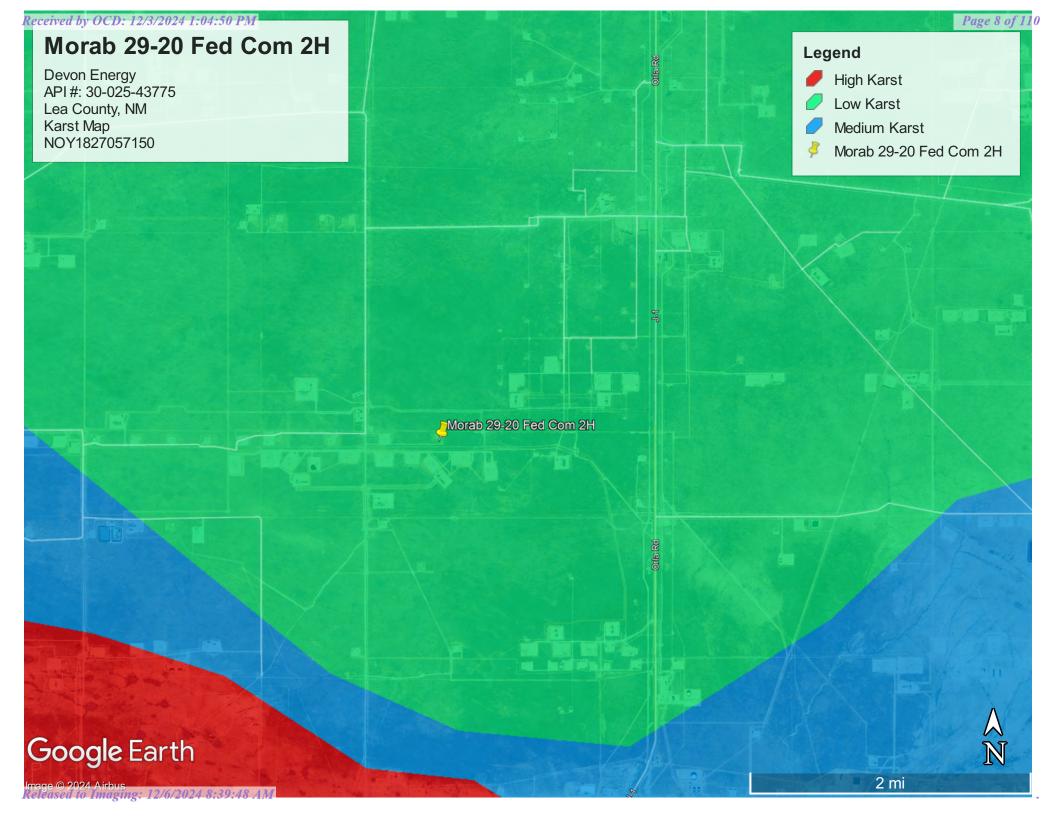
Figure 3- Karst Map

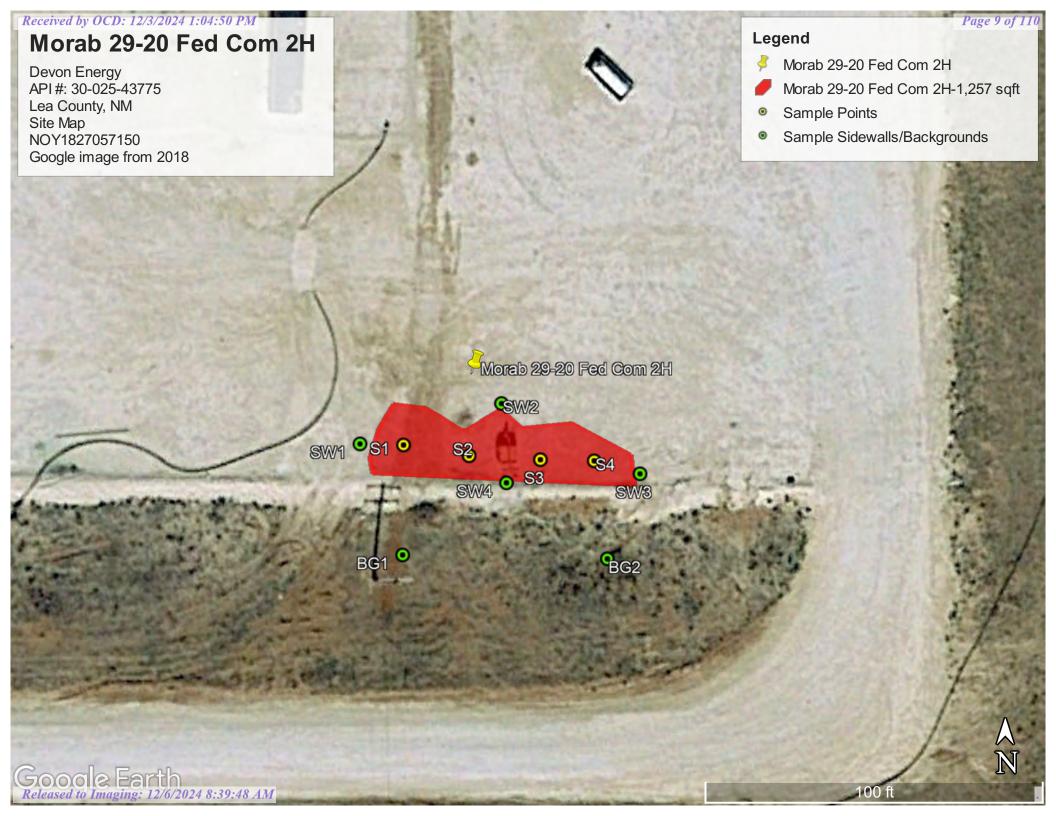
Figure 4- Site Map

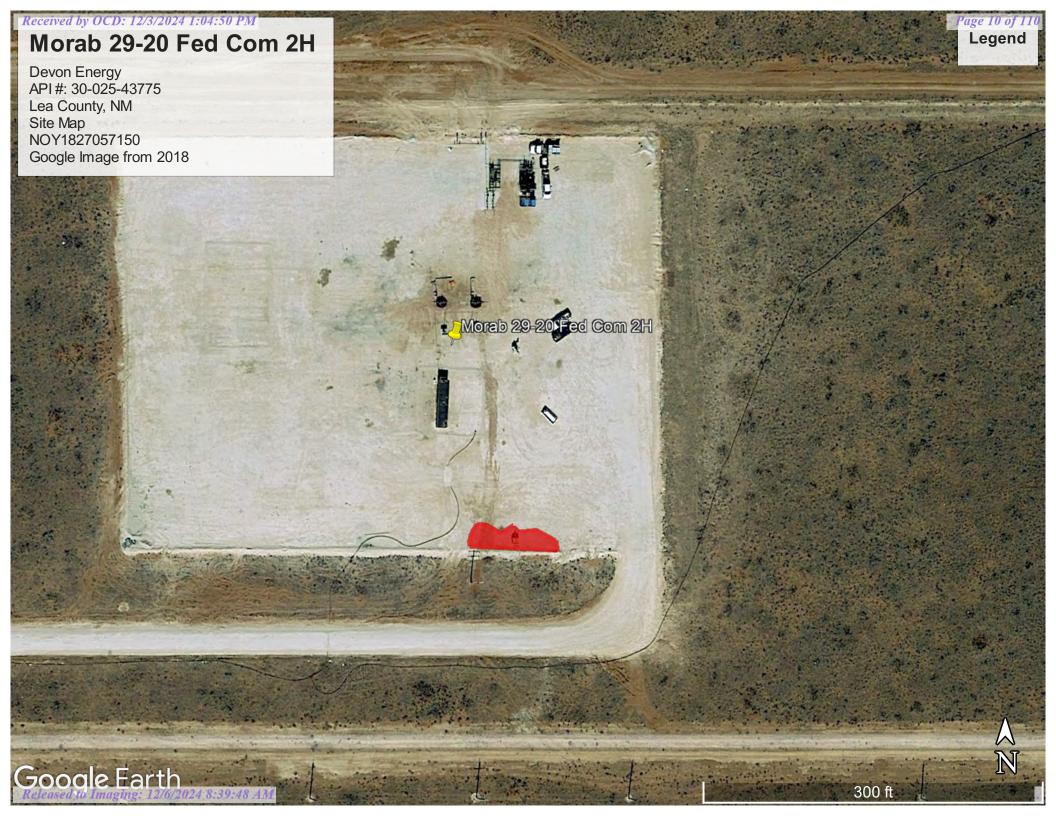
Figure 5- Confirmation Sample Map

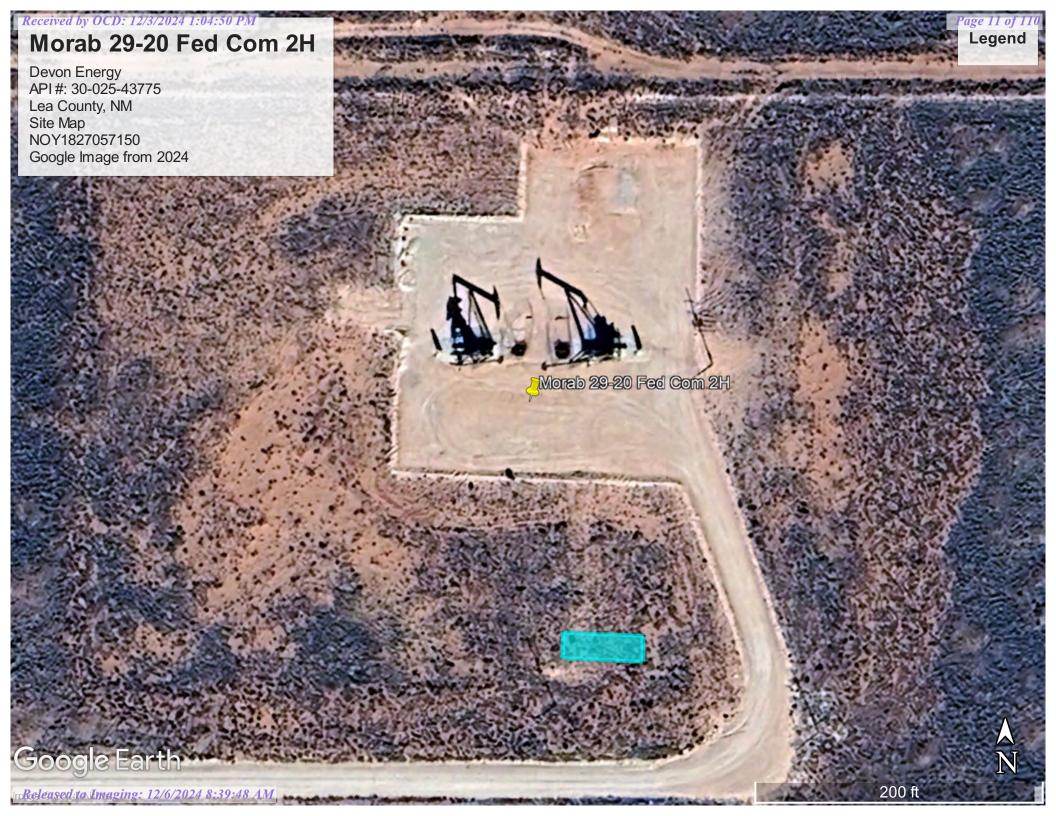
















## Appendix A

Water Surveys:

- OSE
- USGS
- Surface Water Map

## **Point of Diversion Summary**

quarters are 1=NW 2=NE 3=SW 4=SE NAD83 UTM in meters quarters are smallest to largest Well Tag **POD Nbr** Q64 Q16 Q4 Tws Rng Χ Map Sec NA C 04722 POD1 SW SW NE 29 **25S** 32E 622962.1 3552530.5

\* UTM location was derived from PLSS - see Help

**Driller License: Driller Company:** 1833 VISION RESOURCES, INC **Driller Name:** JASON MALEY **Drill Start Date:** 2023-06-01 **Drill Finish Date:** 2023-06-01 Plug Date: 2023-06-05 Log File Date: 2023-06-13 **PCW Rcv Date:** Source: Pump Type: Pipe Discharge Size: **Estimated Yield:** Casing Size: **Depth Well: Depth Water:** 

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.

11/20/24 1:21 PM MST Point of Diversion Summary

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### **WELL PLUGGING** PLAN OF OPERATIONS



NOTE: A Well Plugging Plan of Operations shall be filed with and accepted by the Office of the State Engineer prior to plugging. This form may be used to plug a single well, or if you are plugging multiple monitoring wells on the same site using the same plugging methodology.

Alert! Your well may be eligible to participate in the Aquifer Mapping Program (AMP)-NM Bureau of Geology geoinfo.nmt.edu/resources/water/ egmn/if within an area of interest and meets the minimum construction requirements, such as there is still water in your well, and the well construction reflected in a well record and log is not compromised, contact AMP at 575-835-5038 or -6951, or by email nmbg-waterlevels@nmt.edu, prior to completing this prior form. Showing proof to the OSE that your well was accepted in this program, may delay the plugging of your well until a later date.

I. FILING FEE: There is no filing fee for this form.

Mailir	address: 64888 Sever	n Rivers HWY		County	EDDY
City:	Artesia		State:	NM	Zip code: 88210
Phone	number: 405-318-4697		E-mail:	Dale.Woodall@DV	
III W	ELL DRILLER INFOR	MATION.			
-	Driller contracted to provide		Vision Resources	, Jason Mayley	
	Mexico Well Driller Licens				Date: 10/07/2023
	A copy of the existing We GPS Well Location:		sec VII deg,	min,	
1)		Latitude:See Longitude:	sec VII _deg,	min,	sec
1)	GPS Well Location:	Latitude:See Longitude:	sec VII _deg,	min, min,	sec
1)	GPS Well Location:  Reason(s) for plugging  No water found.  Was well used for any t	Latitude: See Longitude: well(s):	sec VII _deg,deg,	min,min,	sec sec, NAD 83  DSE DI MAR 17 2023 ML 35  section VII of this form to detail itor contaminated or poor quality
2)	GPS Well Location:  Reason(s) for plugging  No water found.  Was well used for any twhat hydrogeologic pawater, authorization fro	Latitude: See Longitude: well(s):  Eype of monitoring parameters were monom the New Mexico  cish, saline, or other	rogram?noitored. If the well Environment Deparwise poor quality w	min,min,  If yes, please use l was used to montument may be require	sec, NAD 83  DSE DI MAR 17 2023 PM 1 35  section VII of this form to detail itor contaminated or poor quality red prior to plugging.
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WD-08 Well Plugging Plan Version: March 07, 2022

Page 1 of 5

7) Inside diameter of innermost casing: inches.	
8) Casing material: PVC	
9) The well was constructed with:  an open-hole production interval, state the open interval:  a well screen or perforated pipe, state the screened interval(s):  50-55 Feet	
10) What annular interval surrounding the artesian casing of this well is cement-grouted? None	
11) Was the well built with surface casing?no If yes, is the annulus surrounding the surface casing grout	ed or
otherwise sealed? If yes, please describe:	
Has all pumping equipment and associated piping been removed from the well?  Yes  If not, description remaining equipment and intentions to remove prior to plugging in Section VII of this form.	be
V. DESCRIPTION OF PLANNED WELL PLUGGING: If plugging method differs between multiple wells on same site, a	separate
Note: If this plan proposes to plug an artesian well in a way other than with cement grout, placed bottom to top with a tremie pipe, a diagram of the well showing proposed final plugged configuration shall be attached, as well as any additional technical information as geophysical logs, that are necessary to adequately describe the proposal. Attach a copy of any signed OSE variance to this plugging plan.  Also, if this planned plugging plan requires a variance to 19.27.4 NMAC, attach a detailed variance request signed by the applicant.  1) Describe the method by which cement grout shall be placed in the well, or describe requested plugging methodo	, such
proposed for the well:  Temporary PVC casing will be removed and approximately 4.7 Cubic feet bentonite chips will be placed in well surface grade.	to
Will well head be cut-off below land surface after plugging? no well head will be installed.	
VI. PLUGGING AND SEALING MATERIALS:	
Note: The plugging of a well that taps poor quality water may require the use of a specialty cement or specialty sealant. Attach a copy of the from the cement company and/or product description for specialty cement mixes or any sealant that deviates from the list of OSE approved s	batch mix ealants.
<ol> <li>For plugging intervals that employ cement grout, complete and attach Table A.</li> </ol>	71177
2) For plugging intervals that will employ approved non-cement based sealant(s), complete and attach Table B.	
Theoretical volume of grout required to plug the well to land surface:	
4) Type of Cement proposed:	
5) Proposed cement grout mix:gallons of water per 94 pound sack of Portland cement.	
6) Will the grout be:batch-mixed and delivered to the site	
mixed on site	

WD-08 Well Plugging Plan Version: March 07, 2022 Page 2 of 5

say that I have carefully read the foregoing Well Plugging Plantions and any attachments, which are a part hereof; that I am familiar with the rules and regulations of the State ere pertaining to the plugging of wells and will comply with them, and that each and all of the statements in the ng Plan of Operations and attachments are true to the best of my knowledge and belief.    Dale Woodall   3/20/2			
SIGNATURE:  a Woodall  consistency plan of Operations and attachments are true to the best of my knowledge and belief.  Dale Woodall  Signature of Applicant  Dale Woodall  Signature of Applicant  CTION OF THE STATE ENGINEER:  Well Plugging Plan of Operations is:  Approved subject to the attached conditions.  Not approved for the reasons provided on the attached letter.  Witness my hand and official seal this  Mike A. Mammar J. E., New Mexico State Engineers	Additional notes and calcula	ations:	
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By: K. ParePh	e Woodall  tions and any attachments, whiteer pertaining to the plugging of the plugging Plan of Operation.  Approved subject Not approved for the plugging Plan of Operation.	ich are a part hereof; that I am familiar with the rules and regular for wells and will comply with them, and that each and all of the chments are true to the best of my knowledge and belief.  Dale Woodall  Signature of Applicant  NGINEER:  Ins is:  It to the attached conditions. the reasons provided on the attached letter.  All seal this	3/20/2 Dat
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	CTION OF THE STATE EN  Vell Plugging Plan of Operation  Approved subject  Not approved for the state of the s	ich are a part hereof; that I am familiar with the rules and regular for wells and will comply with them, and that each and all of the chments are true to the best of my knowledge and belief.  Dale Woodall  Signature of Applicant  NGINEER:  Ins is:  It to the attached conditions. the reasons provided on the attached letter.  All seal this	Additions of the State the statements in the State the Sta

TABLE A - For plugging intervals that employ cement grout. Start with deepest interval.

	Interval 1 – deepest	Interval 2	Interval 3 – most shallow
			Note: if the well is non-artesian and breaches only one aquifer, use only this column.
Top of proposed interval of grout placement (ft bgl)			
Bottom of proposed interval of grout placement (ft bgl)			
Theoretical volume of grout required per interval (gallons)			
Proposed cement grout mix gallons of water per 94-lb. sack of Portland cement			
Mixed on-site or batch- mixed and delivered?			
Grout additive 1 requested			
Additive 1 percent by dry weight relative to cement			
Grout additive 2 requested			
Additive 2 percent by dry weight relative to cement			

03E DIT MAR 17 2023 PM1:36

WD-08 Well Plugging Plan Version: March 07, 2022 Page 4 of 5

TABLE B - For plugging intervals that will employ approved non-cement based sealant(s). Start with deepest interval.

	Interval 1 – deepest	Interval 2	Interval 3 – most shallow
			Note: if the well is non-artesian and breaches only one aquifer, use only this column.
Top of proposed interval of sealant placement (ft bgl)	55 feet		Zero feet below grade.
Bottom of proposed sealant of grout placement (ft bgl)			
Theoretical volume of sealant required per interval (gallons)			
Proposed abandonment sealant (manufacturer and trade name)			

DSE DIT MAR 17 2023 PML:35

WD-08 Well Plugging Plan Version: March 07, 2022 Page 5 of 5



# STATE OF NEW MEXICO OFFICE OF THE STATE ENGINEER ROSWELL

1900 West Second St. Roswell, New Mexico 88201 Phone: (575) 622-6521 Fax: (575) 623- 8559

Applicant has identified a well, listed below, to be plugged. Vision Resources (WD-1833) will perform the plugging.

Permittee: Devon Energy Resources NMOSE Permit Number: C-4722-POD1 and C-4722-POD2

NMOSE File	Casing diameter (inches)	Well depth (feet bgl)	Approximate static water level (feet bgl)	Latitude	Longitude
C-4722-POD1	2.0	55.0	Dry	32.102412°	103.696799°
C-4722-POD2	2.0	55.0	Dry	32.165501°	103.718744°

#### Specific Plugging Conditions of Approval for Well located in Lea County.

- Water well drilling and well drilling activities, including well plugging, are regulated under 19.27.4 NMAC, which requires any person engaged in the business of well drilling within New Mexico to obtain a Well Driller License issued by the New Mexico Office of the State Engineer (NMOSE). Therefore, the firm of a New Mexico licensed Well Driller shall perform the well plugging.
- Theoretical volume of sealant required for abandonment of the 2.0 inch diameter (I.D.) casing
  is approximately 9.0 gallons. Total minimum volume of necessary sealant shall be calculated
  upon sounding the actual pluggable depth of well, which is estimated at 55 feet below ground
  surface (b.g.s.).
- Bentonite chips/pellets is the approved sealant. When bentonite chips/pellets are added above static water level, a minimum of 5-gallons of fresh water shall be added to the borehole per 50-lb of bentonite chips.
- 4. Placement of the sealant within the wells shall be by tremie pipe extending to near well bottom and kept below top of the slurry column as the well is plugged from bottom-upwards in a manner that displaces the standing water column. The tremie shall be incrementally removed to retain the tremie bottom a limited distance above the top of the rising column of chips throughout the plugging process.

- 5. Any open annulus encountered surrounding the casing shall also be sealed by the placement of the approved sealant. When plugging shallow wells with no construction or environmental concerns, and if the well record on a well to be plugged shows a proper 20-foot annular seal, a plugging plan can propose the use of clean fill material to a nominal 30 feet bgs, then placing an OSE approved sealant to surface. Lacking that information, we would require an excavation of at least 2-feet which shall then be filled in its entirety with sealant to surface.
- 6. Should the NMED, or another regulatory agency sharing jurisdiction of the project authorize, or by regulation require a more stringent well plugging procedure than herein acknowledged, the more-stringent procedure should be followed. This, in part, includes provisions regarding pre-authorization to proceed, contaminant remediation, inspection, pulling/perforating of casing, or prohibition of free discharge of any fluid from the borehole during or related to the plugging process.
- 7. NMOSE witnessing of the plugging of the non-artesian well will not be required.
- Any deviation from this plan <u>must</u> obtain an approved variance from this office prior to implementation.
- 9. A Well Plugging Record itemizing actual abandonment process and materials used shall be filed with the State Engineer within 30 days after completion of well plugging. For the plugging record, please resurvey coordinate location for well and note coordinate system for GPS unit. Please attach a copy of these plugging conditions.

The NMOSE Well Plugging Plan of Operations is hereby approved with the aforesaid conditions applied.

Witness my hand and seal this 7th day of April 2023

Mike A. Hamman, P.E. State Engineer

K.P areles

By:

Kashyap Parekh Water Resources Manager I





Mike A. Hamman, P.E.

State Engineer

DISTRICT II

1900 West Second St. Roswell, New Mexico 88201 Phone: (575) 622-6521 Fax: (575) 623-8559

April 7, 2023

Devon Energy Resources 64888 Seven Rivers Highway Artesia, NM 88210

RE: Well Plugging Plan of Operations for C-4722-POD1 and C-4722-POD2

#### Greetings:

Enclosed is your copy of the Well Plugging Plan of Operations for the above referenced well subject to the attached Conditions of Approval. The proposed method of operation is found to be acceptable and in accordance with the Rules and Regulations Governing Well Driller Licensing; Construction, Repair and Plugging of Wells 19.27.4 NMAC adopted June 30, 2017 by the State Engineer, subject to the attached Conditions of Approval.

Within 30 days after the well is plugged, the well driller is required to file a complete plugging record with the OSE and the permit holder.

Sincerely,

Kashyap Parekh

Water Resources Manager I





USGS Home Contact USGS Search USGS

#### **National Water Information System: Web Interface**

**USGS Water Resources** 

Data Category:		Geographic Area:		
Groundwater	~	United States	~	GO

#### Click to hideNews Bulletins

 Explore the NEW <u>USGS National Water Dashboard</u> interactive map to access realtime water data from over 13,500 stations nationwide.

Groundwater levels for the Nation

Important: <u>Next Generation Monitoring Location Page</u>

#### Search Results -- 1 sites found

site no list =

• 320643103465002

#### Minimum number of levels = 1

Save file of selected sites to local disk for future upload

#### USGS 320643103465002 25S.31E.21.413314A

Available data for this site Groundwater: Field measurements GO

Eddy County, New Mexico

Hydrologic Unit Code 13070001

Latitude 32°06'46.0", Longitude 103°46'56.3" NAD83

Land-surface elevation 3,374.00 feet above NGVD29

The depth of the well is 400 feet below land surface.

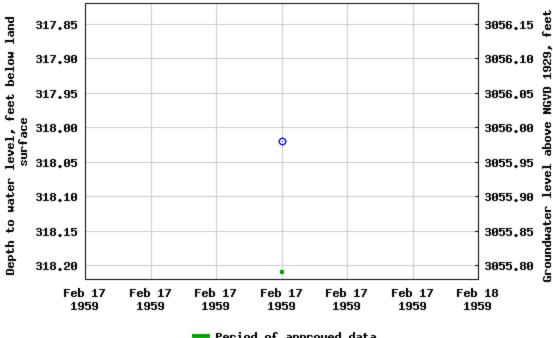
This well is completed in the Pecos River Basin alluvial aquifer (N100PCSRVR) national aquifer.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

#### **Output formats**

<u>Table of data</u>	
<u>Tab-separated data</u>	
Graph of data	
Reselect period	

#### USGS 320643103465002 255,31E,21,413314A



- Period of approved data

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

**Questions or Comments** Help **Data Tips Explanation of terms** Subscribe for system changes

Accessibility

FOIA

Privacy

Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey

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

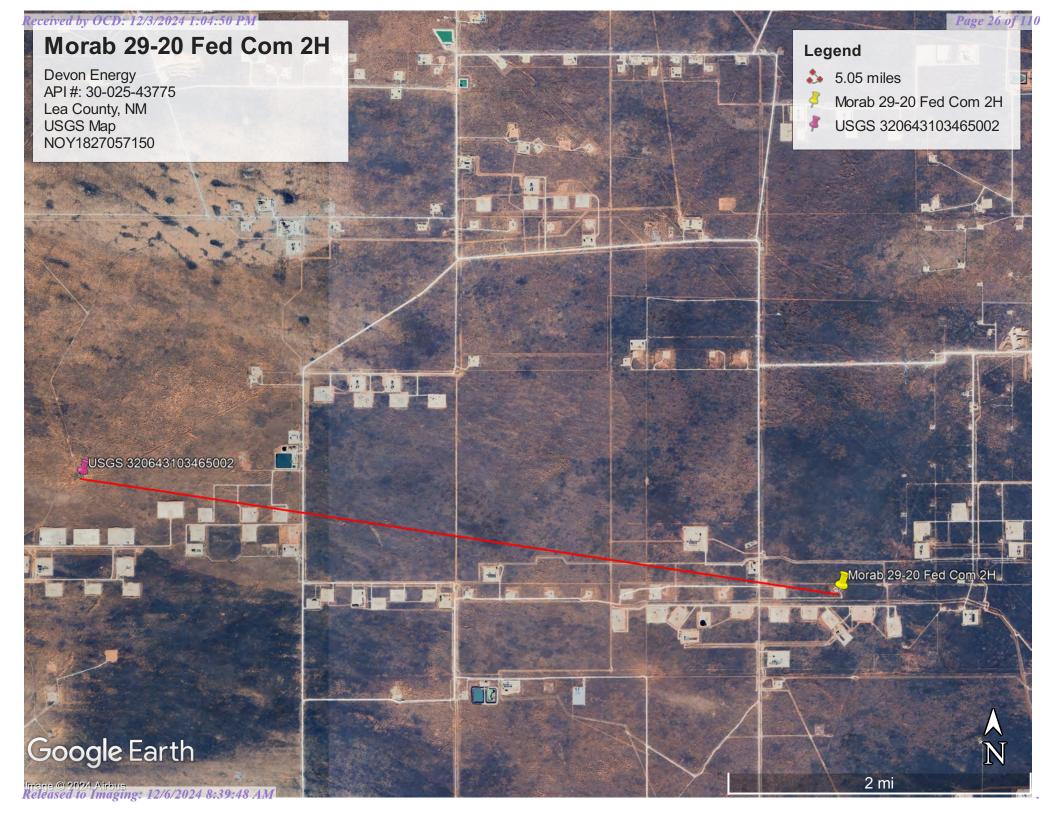
URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

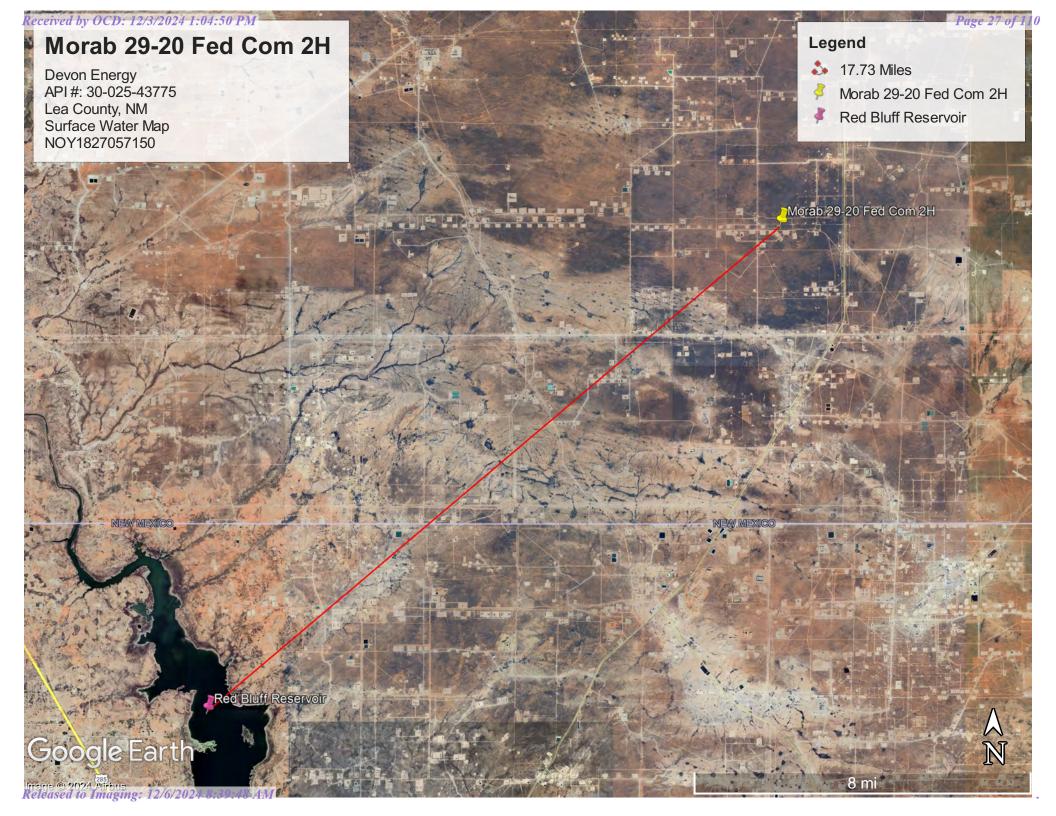
Page Contact Information: <u>USGS Water Data Support Team</u>

Page Last Modified: 2024-11-20 16:38:15 EST

0.65 0.49 nadww01









## Appendix B

- Soil Survey & Soil Maps
- Geological Data
- FEMA Flood Map
- Wetlands Map

#### Lea County, New Mexico

#### PT—Pyote loamy fine sand

#### **Map Unit Setting**

National map unit symbol: dmqp Elevation: 3,000 to 3,900 feet

Mean annual precipitation: 10 to 12 inches Mean annual air temperature: 60 to 62 degrees F

Frost-free period: 190 to 200 days

Farmland classification: Farmland of statewide importance

#### **Map Unit Composition**

Pyote and similar soils: 85 percent Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of

the mapunit.

#### **Description of Pyote**

#### Setting

Landform: Plains

Landform position (three-dimensional): Rise

Down-slope shape: Linear Across-slope shape: Linear

Parent material: Sandy eolian deposits derived from sedimentary

rock

#### Typical profile

A - 0 to 25 inches: loamy fine sand Bt - 25 to 60 inches: fine sandy loam

#### **Properties and qualities**

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained Runoff class: Negligible

Capacity of the most limiting layer to transmit water (Ksat): High

(2.00 to 6.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 5 percent

Gypsum, maximum content: 1 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0

mmhos/cm)

Sodium adsorption ratio, maximum: 2.0

Available water supply, 0 to 60 inches: Low (about 5.3 inches)

#### Interpretive groups

Land capability classification (irrigated): 6e Land capability classification (nonirrigated): 7s



Hydrologic Soil Group: A

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

#### **Minor Components**

#### Maljamar

Percent of map unit: 8 percent

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

#### **Palomas**

Percent of map unit: 7 percent

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

#### **Data Source Information**

Soil Survey Area: Lea County, New Mexico Survey Area Data: Version 21, Sep 3, 2024



#### MAP LEGEND

#### Area of Interest (AOI)

Area of Interest (AOI)

#### Soils

Soil Map Unit Polygons



Soil Map Unit Lines



Soil Map Unit Points

#### **Special Point Features**

Blowout  $\odot$ 



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



**Gravelly Spot** 



Landfill



Lava Flow Marsh or swamp





Mine or Quarry Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot

â

Spoil Area Stony Spot



Very Stony Spot



Wet Spot Other



Special Line Features

#### **Water Features**

Streams and Canals

#### Transportation

---

Rails

Interstate Highways



**US Routes** 



Major Roads



Local Roads

#### Background



Aerial Photography

#### MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20.000.

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

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

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

Source of Map: Natural Resources Conservation Service Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

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

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

Soil Survey Area: Lea County, New Mexico Survey Area Data: Version 21, Sep 3, 2024

Soil map units are labeled (as space allows) for map scales 1:50.000 or larger.

Date(s) aerial images were photographed: Feb 7, 2020—May 12. 2020

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

## **Map Unit Legend**

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
PT	Pyote loamy fine sand	14.1	100.0%
Totals for Area of Interest		14.1	100.0%

(https://www.usgs.gov/)

Mineral Resources (https://www.usgs.gov/energy-and-minerals/mineral-resources-program)

- / Online Spatial Data (/) / Geology (/geology/) / by state (/geology/state/)
- / New Mexico (/geology/state/state.php?state=NM)

## Eolian and piedmont deposits

XML (/geology/state/xml/NMQep;0) JSON (/geology/state/json/NMQep;0)

Shapefile (/geology/state/unit-shape.php?unit=NMQep;0)

Interlayered eolian 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.

State	New Mexico (/geology/state/state.php?state=NM)
Name	Eolian and piedmont deposits
Geologic age	Holocene to middle Pleistocene
Lithologic constituents	Major Unconsolidated (Eolian) Interlayered eolian sands and piedmont-slope deposits
References	New Mexico Bureau of Geology and Mineral Resources, 2003, Geologic Map of New Mexico, scale 1:500,000 (includes some new polygons, faults, and attributes not in NM001 - heads up digitizing by JHorton).

NGMDB product	NGMDB product page for 22974 (https://ngmdb.usgs.gov/Prodesc/proddesc_22974.htm)
Counties	Chaves (/geology/state/fips-unit.php?code=f35005) - DeBaca (/geology/state/fips-unit.php?code=f35011) - Eddy (/geology/state/fips-unit.php?code=f35015) - Lea (/geology/state/fips-unit.php?code=f35025) - Roosevelt (/geology/state/fips-unit.php?code=f35041)

DOI Privacy Policy (https://www.doi.gov/privacy) | Legal (https://www.usgs.gov/laws/policies\_notices.html) |

Accessibility (https://www2.usgs.gov/laws/accessibility.html) | Site Map (https://www.usgs.gov/sitemap.html) |

Contact USGS (https://answers.usgs.gov/)

U.S. Department of the Interior (https://www.doi.gov/) | DOI Inspector General (https://www.doioig.gov/) |

White House (https://www.whitehouse.gov/) | E-gov (https://www.whitehouse.gov/omb/management/egov/) |

No Fear Act (https://www.doi.gov/pmb/eeo/no-fear-act) | FOIA (https://www2.usgs.gov/foia)



# National Flood Hazard Layer FIRMette





SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT Without Base Flood Elevation (BFE) With BFE or Depth Zone AE, AO, AH, VE, AR SPECIAL FLOOD HAZARD AREAS Regulatory Floodway 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 OTHER AREAS OF Area with Flood Risk due to Levee Zone D FLOOD HAZARD NO SCREEN Area of Minimal Flood Hazard Zone X Effective LOMRs OTHER AREAS Area of Undetermined Flood Hazard Zone D **GENERAL** - - - Channel, Culvert, or Storm Sewer STRUCTURES | LILLILL Levee, Dike, or Floodwall 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 --- Coastal Transect Baseline OTHER **Profile Baseline FEATURES** Hydrographic Feature Digital Data Available No Digital Data Available MAP PANELS Unmapped The pin displayed on the map is an approximate point selected by the user and does not represent

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

an authoritative property location.

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 11/20/2024 at 9:49 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.



2,000



## Wetlands Map



November 20, 2024

#### Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Pond

Lake

Freshwater Forested/Shrub Wetland

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.



# Appendix C

48-Hour Notification

Sante Fe Main Office Phone: (505) 476-3441 General Information

Phone: (505) 629-6116
Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS

Action 405392

#### **QUESTIONS**

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	405392
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

#### QUESTIONS

Prerequisites	
Incident ID (n#)	nOY1827057150
Incident Name	NOY1827057150 MORAB 29-20 FED COM 2H @ 30-025-43775
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-025-43775] MORAB 29 20 FEDERAL COM #002H

ocation of Release Source	
Site Name MORAB 29-20 FED COM 2H	
Date Release Discovered	09/19/2018
Surface Owner	Federal

Sampling Event General Information				
Please answer all the questions in this group.				
What is the sampling surface area in square feet 1,000				
What is the estimated number of samples that will be gathered	11			
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	11/25/2024			
Time sampling will commence	08:00 AM			
Please provide any information necessary for observers to contact samplers	Andrew Franco -806-200-0054			
Please provide any information necessary for navigation to sampling site	From the intersection of Orla Rd and Monsanto Ln, Travel west on Monsanto Ln for 2.06 miles, turn South on lease Rd for 1.53 miles, then turn east on lease Rd for 0.53 of a mile arriving at location. F-29-25S-32E 0 FNL 0 FEL (32.101739,-103.697138 NAD83)			

Sante Fe Main Office Phone: (505) 476-3441

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

CONDITIONS

Action 405392

#### **CONDITIONS**

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number: 405392
Oklahoma City, OK 73102	405392
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

#### CONDITIONS

Create By	d Condition	Condition Date
jraley	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	11/20/2024



## Appendix D

Photographic Documentation



#### PHOTOGRAPHIC DOCUMENTATION

#### SITE NAME: Morab 29-20 Fed Com 2H

#### **Assessment:**



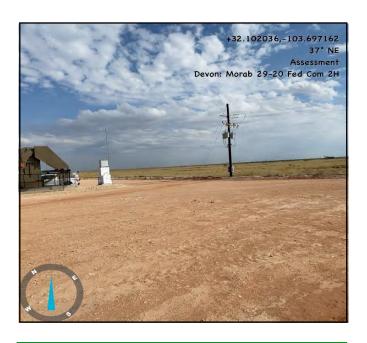
Site information Sign



Photograph of site tech assessing the area facing North.



Photograph of site tech assessing the area facing West.



Photograph of site tech assessing the area facing Northeast.





Photograph of site tech assessing the area facing East.



#### PHOTOGRAPHIC DOCUMENTATION

#### SITE NAME: Morab 29-20 Fed Com 2H

## **Confirmation Samples:**



Photo showing where site tech collected confirmation samples, facing Southwest.



Photo showing where site tech collected confirmation samples, facing Southeast.

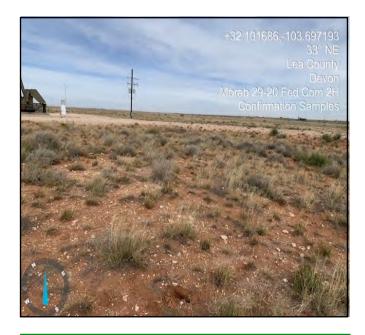


Photo showing where site tech collected confirmation samples, facing Northeast.

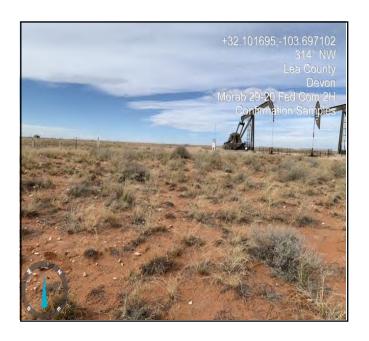


Photo showing where site tech collected confirmation samples, facing Northwest.



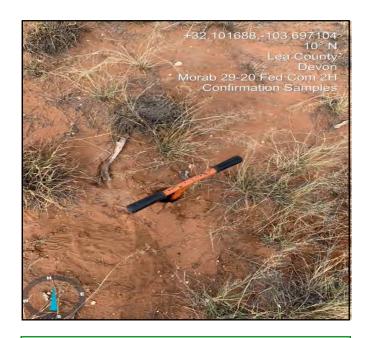


Photo showing where site tech collected confirmation samples, facing North.



Photo showing where site tech collected confirmation samples, facing Northeast.

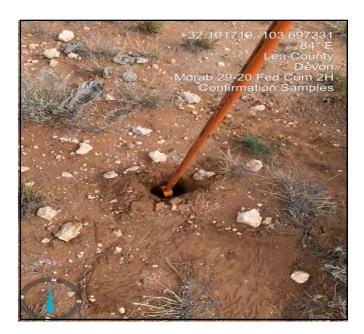


Photo showing where site tech collected confirmation samples, facing East.



Photo showing where site tech collected confirmation samples, facing East.



#### PHOTOGRAPHIC DOCUMENTATION

#### SITE NAME: Morab 29-20 Fed Com 2H

#### **Aerial Photos:**



Aerial photos capturing vegetation growth at the specified location.



Aerial photos capturing vegetation growth at the specified location.



Aerial photos capturing vegetation growth at the specified location.



## Appendix E

Laboratory Reports

Report to:
Tom Bynum



5796 U.S. Hwy 64 Farmington, NM 87401

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





# envirotech

Practical Solutions for a Better Tomorrow

## **Analytical Report**

## Pima Environmental Services-Carlsbad

Project Name: Morab 29-20 Fed Com 2H

Work Order: E210052

Job Number: 01058-0007

Received: 10/13/2022

Revision: 3

Report Reviewed By:

Walter Hinchman Laboratory Director 10/20/22

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: 10/20/22

Tom Bynum PO Box 247

Plains, TX 79355-0247

Project Name: Morab 29-20 Fed Com 2H

Workorder: E210052

Date Received: 10/13/2022 10:30:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/13/2022 10:30:00AM, under the Project Name: Morab 29-20 Fed Com 2H.

The analytical test results summarized in this report with the Project Name: Morab 29-20 Fed Com 2H 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 reguarding 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

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

rainaschwanz@envirotech-inc.com

**Alexa Michaels** 

Sample Custody Officer Office: 505-632-1881

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

ljarboe@envirotech-inc.com

Rayny Hagan Technical Representative

West Texas Midland/Odessa Area

Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

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S.1 2'	7
S.1 3'	8
S.2 1'	9
S.2 2'	10
S.2 3'	11
S.3 1'	12
S.3 2'	13
S.3 3'	14
S.4 1'	15
S.4 2'	16
S.4 3'	17
SW1	18
SW2	19
SW3	20
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## **Sample Summary**

Pima Environmental Services-Carlsbad	Project Name:	Morab 29-20 Fed Com 2H	Donoutode
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/20/22 10:48

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S.1 1'	E210052-01A	Soil	10/07/22	10/13/22	Glass Jar, 4 oz.
S.1 2'	E210052-02A	Soil	10/07/22	10/13/22	Glass Jar, 4 oz.
S.1 3'	E210052-03A	Soil	10/07/22	10/13/22	Glass Jar, 4 oz.
S.2 1'	E210052-04A	Soil	10/07/22	10/13/22	Glass Jar, 4 oz.
S.2 2'	E210052-05A	Soil	10/07/22	10/13/22	Glass Jar, 4 oz.
S.2 3'	E210052-06A	Soil	10/07/22	10/13/22	Glass Jar, 4 oz.
S.3 1'	E210052-07A	Soil	10/07/22	10/13/22	Glass Jar, 4 oz.
S.3 2'	E210052-08A	Soil	10/07/22	10/13/22	Glass Jar, 4 oz.
S.3 3'	E210052-09A	Soil	10/07/22	10/13/22	Glass Jar, 4 oz.
S.4 1'	E210052-10A	Soil	10/07/22	10/13/22	Glass Jar, 4 oz.
S.4 2'	E210052-11A	Soil	10/07/22	10/13/22	Glass Jar, 4 oz.
S.4 3'	E210052-12A	Soil	10/07/22	10/13/22	Glass Jar, 4 oz.
SW1	E210052-13A	Soil	10/07/22	10/13/22	Glass Jar, 4 oz.
SW2	E210052-14A	Soil	10/07/22	10/13/22	Glass Jar, 4 oz.
SW3	E210052-15A	Soil	10/07/22	10/13/22	Glass Jar, 4 oz.
SW4	E210052-16A	Soil	10/07/22	10/13/22	Glass Jar, 4 oz.
BG1	E210052-17A	Soil	10/07/22	10/13/22	Glass Jar, 4 oz.
BG2	E210052-18A	Soil	10/07/22	10/13/22	Glass Jar, 4 oz.

Pima Environmental Services-Carlsbad	Project Name:	Morab 29-20 Fed Com 2H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/20/2022 10:48:39AM

## S.1 1' E210052-01

	E210032-01				
Result		Dilution	Prepared	Analyzed	Notes
	//	Amala	•	<u> </u>	D (1.22/2026
	mg/kg mg/kg		•		Batch: 2242036
ND	0.0250	1	10/11/22	10/14/22	
ND	0.0250	1	10/11/22	10/14/22	
ND	0.0250	1	10/11/22	10/14/22	
ND	0.0250	1	10/11/22	10/14/22	
ND	0.0500	1	10/11/22	10/14/22	
ND	0.0250	1	10/11/22	10/14/22	
	105 %	70-130	10/11/22	10/14/22	
mg/kg	mg/kg	Analyst: RKS			Batch: 2242036
ND	20.0	1	10/11/22	10/14/22	
	79.8 %	70-130	10/11/22	10/14/22	
mg/kg	mg/kg	Analy	yst: JL		Batch: 2242038
ND	25.0	1	10/13/22	10/13/22	·
ND	50.0	1	10/13/22	10/13/22	
	101 %	50-200	10/13/22	10/13/22	
mg/kg	mg/kg	Analy	yst: RAS		Batch: 2242041
747	20.0	1	10/12/22	10/14/22	
	ND ND ND mg/kg ND mg/kg ND mg/kg	Result         Reporting           mg/kg         mg/kg           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0500           ND         0.0250           I05 %         mg/kg           mg/kg         mg/kg           ND         20.0           79.8 %         mg/kg           ND         25.0           ND         50.0           101 %         mg/kg           mg/kg         mg/kg	Reporting           Result         Limit         Dilution           mg/kg         mg/kg         Analy           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0500         1           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           mg/kg         mg/kg         Analy           mg/kg         mg/kg         Analy           mg/kg         mg/kg         Analy           ND         20.0         1           ND         25.0         1           ND         50.0         1           101 %         50-200           mg/kg         mg/kg         Analy	Reporting           Result         Limit         Dilution         Prepared           mg/kg         mg/kg         Analyst: RKS           ND         0.0250         1         10/11/22           ND         0.0250         1         10/11/22           ND         0.0250         1         10/11/22           ND         0.0500         1         10/11/22           ND         0.0250         1         10/11/22           ND         0.0250         1         10/11/22           mg/kg         mg/kg         Analyst: RKS           ND         20.0         1         10/11/22           mg/kg         mg/kg         Analyst: JL           ND         25.0         1         10/13/22           ND         50.0         1         10/13/22           ND         50.0         1         10/13/22           Mg/kg         mg/kg         Analyst: RAS	Reporting           Result         Limit         Dilution         Prepared         Analyzed           mg/kg         mg/kg         Analyst: RKS           ND         0.0250         1         10/11/22         10/14/22           ND         0.0250         1         10/11/22         10/14/22           ND         0.0250         1         10/11/22         10/14/22           ND         0.0500         1         10/11/22         10/14/22           ND         0.0250         1         10/11/22         10/14/22           ND         0.0250         1         10/11/22         10/14/22           mg/kg         mg/kg         Analyst: RKS           ND         20.0         1         10/11/22         10/14/22           mg/kg         mg/kg         Analyst: JL         ND         25.0         1         10/13/22         10/13/22           ND         25.0         1         10/13/22         10/13/22         10/13/22           ND         50.0         1         10/13/22         10/13/22           ND         50.0         1         10/13/22         10/13/22           ND         50.0         1         10/13



Pima Environmental Services-Carlsbad	Project Name:	Morab 29-20 Fed Com 2H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/20/2022 10:48:39AM

## S.1 2' E210052-02

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: RKS		Batch: 2242036
Benzene	ND	0.0250	1	10/11/22	10/14/22	
Ethylbenzene	ND	0.0250	1	10/11/22	10/14/22	
Toluene	ND	0.0250	1	10/11/22	10/14/22	
o-Xylene	ND	0.0250	1	10/11/22	10/14/22	
p,m-Xylene	ND	0.0500	1	10/11/22	10/14/22	
Total Xylenes	ND	0.0250	1	10/11/22	10/14/22	
Surrogate: 4-Bromochlorobenzene-PID		105 %	70-130	10/11/22	10/14/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: RKS		Batch: 2242036
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/11/22	10/14/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		80.8 %	70-130	10/11/22	10/14/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: JL		Batch: 2242038
Diesel Range Organics (C10-C28)	ND	25.0	1	10/13/22	10/13/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/13/22	10/13/22	
Surrogate: n-Nonane		102 %	50-200	10/13/22	10/13/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: RAS		Batch: 2242041
Chloride	326	20.0	1	10/12/22	10/14/22	



Pima Environmental Services-Carlsbad	Project Name:	Morab 29-20 Fed Com 2H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/20/2022 10:48:39AM

## S.1 3' E210052-03

	L210032 05				
Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Analy	yst: RKS		Batch: 2242036
ND	0.0250	1	10/11/22	10/13/22	
ND	0.0250	1	10/11/22	10/13/22	
ND	0.0250	1	10/11/22	10/13/22	
ND	0.0250	1	10/11/22	10/13/22	
ND	0.0500	1	10/11/22	10/13/22	
ND	0.0250	1	10/11/22	10/13/22	
	103 %	70-130	10/11/22	10/13/22	
mg/kg	mg/kg	Analy	yst: RKS		Batch: 2242036
ND	20.0	1	10/11/22	10/13/22	
	80.5 %	70-130	10/11/22	10/13/22	
mg/kg	mg/kg	Analy	yst: JL		Batch: 2242038
ND	25.0	1	10/13/22	10/13/22	
ND	50.0	1	10/13/22	10/13/22	
	122 %	50-200	10/13/22	10/13/22	
mg/kg	mg/kg	Analy	yst: RAS		Batch: 2242041
ND	20.0	1	10/12/22	10/14/22	
	mg/kg ND Mg/kg ND mg/kg	mg/kg         mg/kg           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0500           ND         0.0250           ND         0.0250           ND         20.0250           ND         20.0           80.5 %         mg/kg           MB/kg         mg/kg           ND         25.0           ND         50.0           122 %         mg/kg           mg/kg         mg/kg	Result         Limit         Dilution           mg/kg         mg/kg         Analy           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0500         1           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           mg/kg         mg/kg         Analy           ND         20.0         1           80.5 %         70-130           mg/kg         mg/kg         Analy           ND         25.0         1           ND         50.0         1           122 %         50-200           mg/kg         mg/kg         Analy	Result         Limit         Dilution         Prepared           mg/kg         mg/kg         Analyst: RKS           ND         0.0250         1         10/11/22           ND         0.0250         1         10/11/22           ND         0.0250         1         10/11/22           ND         0.0500         1         10/11/22           ND         0.0250         1         10/11/22           ND         0.0250         1         10/11/22           mg/kg         mg/kg         Analyst: RKS           ND         20.0         1         10/11/22           mg/kg         mg/kg         Analyst: JL           ND         25.0         1         10/13/22           ND         50.0         1         10/13/22           ND         50.0         1         10/13/22           ND         50.0         1         10/13/22           Mg/kg         mg/kg         Analyst: RAS	Result         Limit         Dilution         Prepared         Analyzed           mg/kg         mg/kg         Analyst: RKS           ND         0.0250         1         10/11/22         10/13/22           ND         0.0250         1         10/11/22         10/13/22           ND         0.0250         1         10/11/22         10/13/22           ND         0.0500         1         10/11/22         10/13/22           ND         0.0250         1         10/11/22         10/13/22           ND         0.0250         1         10/11/22         10/13/22           MD         0.0250         1         10/11/22         10/13/22           mg/kg         mg/kg         Analyst: RKS           ND         20.0         1         10/11/22         10/13/22           mg/kg         mg/kg         Analyst: JL         ND         25.0         1         10/13/22         10/13/22           ND         25.0         1         10/13/22         10/13/22         10/13/22           ND         50.0         1         10/13/22         10/13/22         10/13/22           ND         50.0         1         10/13/22         10/13/22<



Pima Environmental Services-Carlsbad	Project Name:	Morab 29-20 Fed Com 2H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/20/2022 10:48:39AM

## S.2 1'

	~ ~	
E:21	0052	-()4

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2242036
Benzene	ND	0.0250	1	10/11/22	10/14/22	
Ethylbenzene	ND	0.0250	1	10/11/22	10/14/22	
Toluene	ND	0.0250	1	10/11/22	10/14/22	
o-Xylene	ND	0.0250	1	10/11/22	10/14/22	
p,m-Xylene	ND	0.0500	1	10/11/22	10/14/22	
Total Xylenes	ND	0.0250	1	10/11/22	10/14/22	
Surrogate: 4-Bromochlorobenzene-PID		105 %	70-130	10/11/22	10/14/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2242036
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/11/22	10/14/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		79.3 %	70-130	10/11/22	10/14/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: JL		Batch: 2242038
Diesel Range Organics (C10-C28)	ND	25.0	1	10/13/22	10/13/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/13/22	10/13/22	
Surrogate: n-Nonane		106 %	50-200	10/13/22	10/13/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: RAS		Batch: 2242041



Pima Environmental Services-Carlsbad	Project Name:	Morab 29-20 Fed Com 2H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/20/2022 10:48:39AM

S.2 2' E210052-05

Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Analy	yst: RKS		Batch: 2242036
ND	0.0250	1	10/11/22	10/14/22	
ND	0.0250	1	10/11/22	10/14/22	
ND	0.0250	1	10/11/22	10/14/22	
ND	0.0250	1	10/11/22	10/14/22	
ND	0.0500	1	10/11/22	10/14/22	
ND	0.0250	1	10/11/22	10/14/22	
	105 %	70-130	10/11/22	10/14/22	
mg/kg	mg/kg	Analy	yst: RKS		Batch: 2242036
ND	20.0	1	10/11/22	10/14/22	
	82.1 %	70-130	10/11/22	10/14/22	
mg/kg	mg/kg	Analy	yst: JL		Batch: 2242038
ND	25.0	1	10/13/22	10/13/22	
ND	50.0	1	10/13/22	10/13/22	
	116 %	50-200	10/13/22	10/13/22	
mg/kg	mg/kg	Analy	yst: RAS		Batch: 2242041
ND	20.0	1	10/12/22	10/14/22	
	mg/kg ND Mg/kg ND mg/kg	mg/kg         mg/kg           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0500           ND         0.0250           MD         0.0250           MD         20.0250           MD         20.0           82.1 %         mg/kg           MD         25.0           ND         50.0           I16 %         mg/kg           mg/kg         mg/kg	Result         Limit         Dilution           mg/kg         mg/kg         Analy           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0500         1           ND         0.0250         1           MD         0.0250         1           MD         20.0250         1           MB/kg         mg/kg         Analy           ND         20.0         1           82.1 %         70-130           mg/kg         mg/kg         Analy           ND         25.0         1           ND         50.0         1           116 %         50-200           mg/kg         mg/kg         Analy	Result         Limit         Dilution         Prepared           mg/kg         mg/kg         Analyst: RKS           ND         0.0250         1         10/11/22           ND         0.0250         1         10/11/22           ND         0.0250         1         10/11/22           ND         0.0500         1         10/11/22           ND         0.0250         1         10/11/22           ND         0.0250         1         10/11/22           mg/kg         mg/kg         Analyst: RKS           ND         20.0         1         10/11/22           mg/kg         mg/kg         Analyst: JL           ND         25.0         1         10/13/22           ND         50.0         1         10/13/22           ND         50.0         1         10/13/22           MB         50-200         10/13/22	Result         Limit         Dilution         Prepared         Analyzed           mg/kg         mg/kg         Analyst: RKS           ND         0.0250         1         10/11/22         10/14/22           ND         0.0250         1         10/11/22         10/14/22           ND         0.0250         1         10/11/22         10/14/22           ND         0.0500         1         10/11/22         10/14/22           ND         0.0250         1         10/11/22         10/14/22           ND         0.0250         1         10/11/22         10/14/22           mg/kg         70-130         10/11/22         10/14/22           mg/kg         mg/kg         Analyst: RKS           ND         20.0         1         10/11/22         10/14/22           mg/kg         mg/kg         Analyst: JL         ND         25.0         1         10/13/22         10/13/22           ND         25.0         1         10/13/22         10/13/22         10/13/22           ND         50.0         1         10/13/22         10/13/22           ND         50.0         1         10/13/22         10/13/22           mg/kg<



Chloride

## **Sample Data**

Pima Environmental Services-Carlsbad	Project Name:	Morab 29-20 Fed Com 2H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/20/2022 10:48:39AM

S.2 3'

E210052-06						
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2242036
Benzene	ND	0.0250	1	10/11/22	10/14/22	
Ethylbenzene	ND	0.0250	1	10/11/22	10/14/22	
Toluene	ND	0.0250	1	10/11/22	10/14/22	
o-Xylene	ND	0.0250	1	10/11/22	10/14/22	
p,m-Xylene	ND	0.0500	1	10/11/22	10/14/22	
Total Xylenes	ND	0.0250	1	10/11/22	10/14/22	
Surrogate: 4-Bromochlorobenzene-PID		105 %	70-130	10/11/22	10/14/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2242036
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/11/22	10/14/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		82.8 %	70-130	10/11/22	10/14/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: JL		Batch: 2242038
Diesel Range Organics (C10-C28)	ND	25.0	1	10/13/22	10/13/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/13/22	10/13/22	
Surrogate: n-Nonane		118 %	50-200	10/13/22	10/13/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: RAS		Batch: 2242041

20.0

10/12/22

10/14/22

ND



Pima Environmental Services-Carlsbad	Project Name:	Morab 29-20 Fed Com 2H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/20/2022 10:48:39AM

## S.3 1'

		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: RKS		Batch: 2242036
Benzene	ND	0.0250	1	10/11/22	10/14/22	
Ethylbenzene	ND	0.0250	1	10/11/22	10/14/22	
Toluene	ND	0.0250	1	10/11/22	10/14/22	
o-Xylene	ND	0.0250	1	10/11/22	10/14/22	
p,m-Xylene	ND	0.0500	1	10/11/22	10/14/22	
Total Xylenes	ND	0.0250	1	10/11/22	10/14/22	
Surrogate: 4-Bromochlorobenzene-PID		105 %	70-130	10/11/22	10/14/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: RKS		Batch: 2242036
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/11/22	10/14/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		81.1 %	70-130	10/11/22	10/14/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: JL		Batch: 2242038
Diesel Range Organics (C10-C28)	ND	25.0	1	10/13/22	10/13/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/13/22	10/13/22	
Surrogate: n-Nonane		121 %	50-200	10/13/22	10/13/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: RAS		Batch: 2242041
Chloride	60.3	20.0	1	10/12/22	10/14/22	



Pima Environmental Services-Carlsbad	Project Name:	Morab 29-20 Fed Com 2H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/20/2022 10:48:39AM

S.3 2'

E210052-08						
		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: RKS		Batch: 2242036
Benzene	ND	0.0250	1	10/11/22	10/14/22	
Ethylbenzene	ND	0.0250	1	10/11/22	10/14/22	
Toluene	ND	0.0250	1	10/11/22	10/14/22	
o-Xylene	ND	0.0250	1	10/11/22	10/14/22	
p,m-Xylene	ND	0.0500	1	10/11/22	10/14/22	
Total Xylenes	ND	0.0250	1	10/11/22	10/14/22	
Surrogate: 4-Bromochlorobenzene-PID		105 %	70-130	10/11/22	10/14/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: RKS		Batch: 2242036
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/11/22	10/14/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		78.6 %	70-130	10/11/22	10/14/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: JL		Batch: 2242038
Diesel Range Organics (C10-C28)	ND	25.0	1	10/13/22	10/13/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/13/22	10/13/22	
Surrogate: n-Nonane		99.0 %	50-200	10/13/22	10/13/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: RAS		Batch: 2242041
Chloride	ND	20.0	1	10/12/22	10/14/22	



Pima Environmental Services-Carlsbad	Project Name:	Morab 29-20 Fed Com 2H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/20/2022 10:48:39AM

S.3 3' E210052-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: RKS		Batch: 2242036
Benzene	ND	0.0250	1	10/11/22	10/14/22	
Ethylbenzene	ND	0.0250	1	10/11/22	10/14/22	
Toluene	ND	0.0250	1	10/11/22	10/14/22	
o-Xylene	ND	0.0250	1	10/11/22	10/14/22	
p,m-Xylene	ND	0.0500	1	10/11/22	10/14/22	
Total Xylenes	ND	0.0250	1	10/11/22	10/14/22	
Surrogate: 4-Bromochlorobenzene-PID		106 %	70-130	10/11/22	10/14/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	rst: RKS		Batch: 2242036
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/11/22	10/14/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		81.4 %	70-130	10/11/22	10/14/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	rst: JL		Batch: 2242038
Diesel Range Organics (C10-C28)	ND	25.0	1	10/13/22	10/13/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/13/22	10/13/22	
Surrogate: n-Nonane		111 %	50-200	10/13/22	10/13/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: RAS		Batch: 2242041
Chloride	ND	20.0	1	10/12/22	10/14/22	

Pima Environmental Services-Carlsbad	Project Name:	Morab 29-20 Fed Com 2H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/20/2022 10:48:39AM

## S.4 1'

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: RKS		Batch: 2242036
Benzene	ND	0.0250	1	10/11/22	10/14/22	
Ethylbenzene	ND	0.0250	1	10/11/22	10/14/22	
Toluene	ND	0.0250	1	10/11/22	10/14/22	
o-Xylene	ND	0.0250	1	10/11/22	10/14/22	
p,m-Xylene	ND	0.0500	1	10/11/22	10/14/22	
Total Xylenes	ND	0.0250	1	10/11/22	10/14/22	
Surrogate: 4-Bromochlorobenzene-PID		105 %	70-130	10/11/22	10/14/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: RKS		Batch: 2242036
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/11/22	10/14/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		81.1 %	70-130	10/11/22	10/14/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: JL		Batch: 2242038
Diesel Range Organics (C10-C28)	ND	25.0	1	10/13/22	10/13/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/13/22	10/13/22	
Surrogate: n-Nonane		110 %	50-200	10/13/22	10/13/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	llyst: RAS		Batch: 2242041
Chloride	408	20.0	1	10/12/22	10/14/22	



Pima Environmental Services-Carlsbad	Project Name:	Morab 29-20 Fed Com 2H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/20/2022 10:48:39AM

S.4 2'

E210052-11						
		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: RKS		Batch: 2242036
Benzene	ND	0.0250	1	10/11/22	10/14/22	
Ethylbenzene	ND	0.0250	1	10/11/22	10/14/22	
Toluene	ND	0.0250	1	10/11/22	10/14/22	
o-Xylene	ND	0.0250	1	10/11/22	10/14/22	
o,m-Xylene	ND	0.0500	1	10/11/22	10/14/22	
Total Xylenes	ND	0.0250	1	10/11/22	10/14/22	
Surrogate: 4-Bromochlorobenzene-PID		104 %	70-130	10/11/22	10/14/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: RKS		Batch: 2242036
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/11/22	10/14/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		78.9 %	70-130	10/11/22	10/14/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: JL		Batch: 2242038
Diesel Range Organics (C10-C28)	ND	25.0	1	10/13/22	10/13/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/13/22	10/13/22	
Surrogate: n-Nonane		106 %	50-200	10/13/22	10/13/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: RAS		Batch: 2242041
Chloride	127	20.0	1	10/12/22	10/14/22	



## **Sample Data**

Pima Environmental Services-Carlsbad	Project Name:	Morab 29-20 Fed Com 2H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/20/2022 10:48:39AM

#### S.4 3'

E210052-12							
Reporting							
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: RKS		Batch: 2242036	
Benzene	ND	0.0250	1	10/11/22	10/14/22		
Ethylbenzene	ND	0.0250	1	10/11/22	10/14/22		
Toluene	ND	0.0250	1	10/11/22	10/14/22		
o-Xylene	ND	0.0250	1	10/11/22	10/14/22		
p,m-Xylene	ND	0.0500	1	10/11/22	10/14/22		
Total Xylenes	ND	0.0250	1	10/11/22	10/14/22		
Surrogate: 4-Bromochlorobenzene-PID		105 %	70-130	10/11/22	10/14/22		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: RKS		Batch: 2242036	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/11/22	10/14/22		
Surrogate: 1-Chloro-4-fluorobenzene-FID		80.5 %	70-130	10/11/22	10/14/22		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: JL		Batch: 2242038	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/13/22	10/13/22		
Oil Range Organics (C28-C36)	ND	50.0	1	10/13/22	10/13/22		
Surrogate: n-Nonane		100 %	50-200	10/13/22	10/13/22		
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: RAS		Batch: 2242041	
Chloride	ND	20.0	1	10/12/22	10/14/22		



Pima Environmental Services-Carlsbad	Project Name:	Morab 29-20 Fed Com 2H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/20/2022 10:48:39AM

## SW1

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: RKS		Batch: 2242036
Benzene	ND	0.0250	1	10/11/22	10/14/22	
Ethylbenzene	ND	0.0250	1	10/11/22	10/14/22	
Toluene	ND	0.0250	1	10/11/22	10/14/22	
o-Xylene	ND	0.0250	1	10/11/22	10/14/22	
p,m-Xylene	ND	0.0500	1	10/11/22	10/14/22	
Total Xylenes	ND	0.0250	1	10/11/22	10/14/22	
Surrogate: 4-Bromochlorobenzene-PID		104 %	70-130	10/11/22	10/14/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: RKS		Batch: 2242036
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/11/22	10/14/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		81.3 %	70-130	10/11/22	10/14/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: JL		Batch: 2242038
Diesel Range Organics (C10-C28)	ND	25.0	1	10/13/22	10/13/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/13/22	10/13/22	
Surrogate: n-Nonane		112 %	50-200	10/13/22	10/13/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: RAS		Batch: 2242041
Chloride	ND	20.0	1	10/12/22	10/14/22	



Pima Environmental Services-Carlsbad	Project Name:	Morab 29-20 Fed Com 2H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/20/2022 10:48:39AM

## SW2

		E210052-14				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2242036
Benzene	ND	0.0250	1	10/11/22	10/14/22	
Ethylbenzene	ND	0.0250	1	10/11/22	10/14/22	
Toluene	ND	0.0250	1	10/11/22	10/14/22	
o-Xylene	ND	0.0250	1	10/11/22	10/14/22	
o,m-Xylene	ND	0.0500	1	10/11/22	10/14/22	
Total Xylenes	ND	0.0250	1	10/11/22	10/14/22	
Surrogate: 4-Bromochlorobenzene-PID		105 %	70-130	10/11/22	10/14/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2242036
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/11/22	10/14/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		79.8 %	70-130	10/11/22	10/14/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: JL		Batch: 2242038
Diesel Range Organics (C10-C28)	ND	25.0	1	10/13/22	10/13/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/13/22	10/13/22	
Surrogate: n-Nonane		102 %	50-200	10/13/22	10/13/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: RAS		Batch: 2242041
Chloride	ND	20.0	1	10/12/22	10/14/22	



Pima Environmental Services-Carlsbad	Project Name:	Morab 29-20 Fed Com 2H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/20/2022 10:48:39AM

## SW3

		ъ .:				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Analyte	Resuit	Limit	Dilution	Prepared	Ananyzeu	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: RKS		Batch: 2242036
Benzene	ND	0.0250	1	10/11/22	10/14/22	
Ethylbenzene	ND	0.0250	1	10/11/22	10/14/22	
Toluene	ND	0.0250	1	10/11/22	10/14/22	
o-Xylene	ND	0.0250	1	10/11/22	10/14/22	
p,m-Xylene	ND	0.0500	1	10/11/22	10/14/22	
Total Xylenes	ND	0.0250	1	10/11/22	10/14/22	
Surrogate: 4-Bromochlorobenzene-PID		106 %	70-130	10/11/22	10/14/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: RKS		Batch: 2242036
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/11/22	10/14/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		79.9 %	70-130	10/11/22	10/14/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: JL		Batch: 2242038
Diesel Range Organics (C10-C28)	ND	25.0	1	10/13/22	10/13/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/13/22	10/13/22	
Surrogate: n-Nonane		110 %	50-200	10/13/22	10/13/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: RAS		Batch: 2242041



Pima Environmental Services-Carlsbad	Project Name:	Morab 29-20 Fed Com 2H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/20/2022 10:48:39AM

## SW4

		D 4:				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Analyte	Resuit	Limit	Dilution	rrepared	Anaryzeu	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: RKS		Batch: 2242036
Benzene	ND	0.0250	1	10/11/22	10/14/22	
Ethylbenzene	ND	0.0250	1	10/11/22	10/14/22	
Toluene	ND	0.0250	1	10/11/22	10/14/22	
o-Xylene	ND	0.0250	1	10/11/22	10/14/22	
p,m-Xylene	ND	0.0500	1	10/11/22	10/14/22	
Total Xylenes	ND	0.0250	1	10/11/22	10/14/22	
Surrogate: 4-Bromochlorobenzene-PID		106 %	70-130	10/11/22	10/14/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: RKS		Batch: 2242036
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/11/22	10/14/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		78.2 %	70-130	10/11/22	10/14/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: JL		Batch: 2242038
Diesel Range Organics (C10-C28)	ND	25.0	1	10/13/22	10/13/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/13/22	10/13/22	
Surrogate: n-Nonane		88.0 %	50-200	10/13/22	10/13/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: RAS		Batch: 2242041



Pima Environmental Services-Carlsbad	Project Name:	Morab 29-20 Fed Com 2H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/20/2022 10:48:39AM

## BG1

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	/st: RKS		Batch: 2242036
Benzene	ND	0.0250	1	10/11/22	10/14/22	
Ethylbenzene	ND	0.0250	1	10/11/22	10/14/22	
Toluene	ND	0.0250	1	10/11/22	10/14/22	
o-Xylene	ND	0.0250	1	10/11/22	10/14/22	
p,m-Xylene	ND	0.0500	1	10/11/22	10/14/22	
Total Xylenes	ND	0.0250	1	10/11/22	10/14/22	
Surrogate: 4-Bromochlorobenzene-PID		105 %	70-130	10/11/22	10/14/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	/st: RKS		Batch: 2242036
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/11/22	10/14/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		81.4 %	70-130	10/11/22	10/14/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	/st: JL		Batch: 2242038
Diesel Range Organics (C10-C28)	ND	25.0	1	10/13/22	10/14/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/13/22	10/14/22	
Surrogate: n-Nonane		110 %	50-200	10/13/22	10/14/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: RAS		Batch: 2242041

Pima Environmental Services-Carlsbad	Project Name:	Morab 29-20 Fed Com 2H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/20/2022 10:48:39AM

## BG2

		D .:				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Analyte	Kesuit	Limit	Dilution	Frepared	Analyzeu	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: RKS		Batch: 2242036
Benzene	ND	0.0250	1	10/11/22	10/14/22	
Ethylbenzene	ND	0.0250	1	10/11/22	10/14/22	
Toluene	ND	0.0250	1	10/11/22	10/14/22	
o-Xylene	ND	0.0250	1	10/11/22	10/14/22	
p,m-Xylene	ND	0.0500	1	10/11/22	10/14/22	
Total Xylenes	ND	0.0250	1	10/11/22	10/14/22	
Surrogate: 4-Bromochlorobenzene-PID		106 %	70-130	10/11/22	10/14/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: RKS		Batch: 2242036
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/11/22	10/14/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		78.7 %	70-130	10/11/22	10/14/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: JL		Batch: 2242038
Diesel Range Organics (C10-C28)	ND	25.0	1	10/13/22	10/14/22	
Oil Range Organics (C28-C36)	ND	50.0	1	10/13/22	10/14/22	
Surrogate: n-Nonane		112 %	50-200	10/13/22	10/14/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: RAS		Batch: 2242041
· · · · · · · · · · · · · · · · · · ·				10/12/22	10/14/22	



## **QC Summary Data**

Morab 29-20 Fed Com 2H Pima Environmental Services-Carlsbad Project Name: Reported: PO Box 247 Project Number: 01058-0007 Plains TX, 79355-0247 Project Manager: Tom Bynum 10/20/2022 10:48:39AM **Volatile Organics by EPA 8021B** Analyst: RKS Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % % Notes Blank (2242036-BLK1) Prepared: 10/11/22 Analyzed: 10/13/22 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 Total Xylenes ND 0.0250 Surrogate: 4-Bromochlorobenzene-PID 8.19 8.00 102 70-130 LCS (2242036-BS1) Prepared: 10/11/22 Analyzed: 10/13/22 5.24 105 70-130 5.00 Benzene 0.0250 Ethylbenzene 4.11 0.0250 5.00 82.3 70-130 4.42 0.0250 5.00 88.4 70-130 Toluene 4.22 o-Xylene 0.0250 5.00 84.4 70-130 8.36 10.0 83.6 70-130 0.0500 p.m-Xvlene 83.9 70-130 12.6 15.0 Total Xylenes 0.0250 8.00 103 70-130 Surrogate: 4-Bromochlorobenzene-PID 8.21 Matrix Spike (2242036-MS1) Source: E210052-03 Prepared: 10/11/22 Analyzed: 10/13/22 5.89 0.0250 5.00 ND 118 54-133 Benzene ND 92.9 61-133 Ethylbenzene 4.64 0.0250 5.00 Toluene 4.97 0.0250 5.00 ND 99.5 61-130 4.71 ND 94.2 63-131 5.00 0.0250 o-Xylene p,m-Xylene 9.43 0.0500 10.0 ND 94.3 63-131 0.0250 15.0 ND 63-131 Total Xylenes 70-130 Surrogate: 4-Bromochlorobenzene-PID 8.30 8.00 Matrix Spike Dup (2242036-MSD1) Source: E210052-03 Prepared: 10/11/22 Analyzed: 10/13/22 5.75 0.0250 5.00 ND 115 54-133 2.48 61-133 2.58 4.53 0.0250 5.00 ND 90.5 20 Ethylbenzene 61-130 Toluene 4 85 0.0250 5.00 ND 97.0 2.50 20 4.60 5.00 ND 92.0 63-131 2.41 20 o-Xylene 0.0250

10.0

15.0

8.00

0.0500

0.0250

ND

ND

92.0

92.0

104

63-131

63-131

70-130



2.43

2.42

20

20

p,m-Xylene

Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

9.20

13.8

8.34

## **QC Summary Data**

Pima Environmental Services-Carlsbad	Project Name:	Morab 29-20 Fed Com 2H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/20/2022 10:48:39AM

Plains TX, 79355-0247		Project Manage		m Bynum				10/2	20/2022 10:48:39AN
	Non	halogenated	Organics l	oy EPA 80	15D - GI	RO		ı	Analyst: RKS
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits	RPD %	RPD Limit %	Notes
Blank (2242036-BLK1)							Prepared: 10	0/11/22 Anal	yzed: 10/13/22
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.62		8.00		82.7	70-130			
LCS (2242036-BS2)							Prepared: 1	0/11/22 Anal	yzed: 10/13/22
Gasoline Range Organics (C6-C10)	51.7	20.0	50.0		103	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.70		8.00		83.8	70-130			
Matrix Spike (2242036-MS2)				Source:	E210052-0	03	Prepared: 1	0/11/22 Anal	yzed: 10/13/22
Gasoline Range Organics (C6-C10)	49.0	20.0	50.0	ND	98.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.73		8.00		84.2	70-130			
Matrix Spike Dup (2242036-MSD2)				Source:	E210052-0	03	Prepared: 1	0/11/22 Anal	yzed: 10/14/22
Gasoline Range Organics (C6-C10)	47.2	20.0	50.0	ND	94.4	70-130	3.72	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.56		8.00		82.0	70-130			

## **QC Summary Data**

Pima Environmental Services-CarlsbadProject Name:Morab 29-20 Fed Com 2HReported:PO Box 247Project Number:01058-0007Plains TX, 79355-0247Project Manager:Tom Bynum10/20/2022 10:48:39AM

Plains TX, 79355-0247		Project Manage	r: To	m Bynum				10/	20/2022 10:48:39A
	Nonha	logenated Or	ganics by	EPA 8015I	) - DRO	/ORO			Analyst: JL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2242038-BLK1)							Prepared: 1	0/13/22 Ana	lyzed: 10/13/22
Diesel Range Organics (C10-C28)	ND	25.0							
il Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	58.2		50.0		116	50-200			
LCS (2242038-BS1)							Prepared: 1	0/13/22 Ana	lyzed: 10/13/22
Diesel Range Organics (C10-C28)	259	25.0	250		104	38-132			
urrogate: n-Nonane	58.0		50.0		116	50-200			
Matrix Spike (2242038-MS1)				Source:	E210051-	02	Prepared: 1	0/13/22 Ana	lyzed: 10/13/22
Diesel Range Organics (C10-C28)	162	25.0	250	ND	64.9	38-132			
urrogate: n-Nonane	46.2		50.0		92.4	50-200			
Matrix Spike Dup (2242038-MSD1)				Source:	E210051-	02	Prepared: 1	0/13/22 Ana	lyzed: 10/13/22
Diesel Range Organics (C10-C28)	329	25.0	250	ND	132	38-132	68.0	20	R3
urrogate: n-Nonane	63.8		50.0		128	50-200			



Chloride

## **QC Summary Data**

Pima Environmental Services-Carlsbad PO Box 247		Project Name: Project Number:	(	Morab 29-20 Fe 01058-0007	ed Com 2H				Reported:
Plains TX, 79355-0247		Project Manager	: 1	Tom Bynum				l	0/20/2022 10:48:39AM
		Anions	by EPA	300.0/9056 <i>A</i>	<b>A</b>				Analyst: RAS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2242041-BLK1)							Prepared:	10/12/22 A	nalyzed: 10/14/22
Chloride	ND	20.0							
LCS (2242041-BS1)							Prepared:	10/12/22 A	nalyzed: 10/14/22
Chloride	254	20.0	250		101	90-110			
Matrix Spike (2242041-MS1)				Source:	E210052-0	)1	Prepared:	10/12/22 A	nalyzed: 10/14/22
Chloride	1010	20.0	250	747	104	80-120			
Matrix Spike Dup (2242041-MSD1)				Source:	E210052-0	1	Prepared:	10/12/22 A	nalyzed: 10/14/22

250

20.0

747

109

80-120

1.03

#### 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:	Morab 29-20 Fed Com 2H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	10/20/22 10:48

R3 The RPD exceeded the acceptance limit. LCS spike recovery met acceptance criteria.

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.



**Project Information** 

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**Chain of Custody** 

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Client: Pi	ma Fry	ironment	al Serv	ices		» Bill To				La	ıb Us	e Onl	Y				TA	<b>NT</b>		EPA Pr	ogram
Project:	Ylarah	29-20	Fed	m 2H	Atte	ention: Devon The	ray	Lab	WO#	_		Job N	uml	per		2D	3D	Stan	dard	CWA	SDWA
		Tom By			Add	lress:	J	E2	wo# 2100	50				<u>FW0</u>				X			
		Lovingto		<u> </u>		, State, Zip						Analys	is an	d Metho	d						RCRA
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Phone: 5	80-748	1613		<del></del>	<u>Em</u>	ail:		. l g	8015						1			<u>                                   </u>	MI CO	State UT AZ	TVI
		naoil.con	<u>n</u>		Dir	ma Project # /- //	NR	ã a	l & l	8021	8	ន្ត	8		Σ	<u>×</u>	1 1		/ CO	UI AZ	
Report di			1	<del></del>	1.0	11a 1 10jeoc 11 /- /	<i>JO</i>	- 8	8	b, 8	× 82	8	ğ		1		1 1	P			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID			Lab Numbe	DRO/ORO by 8015	GRO/DRO	втех бу	VOC by 8260	Metals 6010	Chloride 300.0		86000	98 900 900				Remarks	
B:00	197/22	S	١	3.1 1'											X						
8:05	1	1	1	S.1 2'			2								Ш						
8:1D				S.13'			3														
8:15				S.21'			[4														
8:2D				S.2 7'			5														
B:25				S.7 3'			6														
R:3D				5.31																	
B: 35				(13 2'			8														
8:40				833			9														
8:30 8:35 8:40 8:45			11	S.4 1'			10														
Addition	al Instru	ctions:	<del></del>		2071	5197							<u>\</u>	,0			15-	-[	7.2	<b>&gt;</b>	
l, (field sam	pler), attest	to the validit	y and autho	enticity of this sample		that tamp@ing with or intention	onally mislabelling the sam	ple loca	tion,					at an avg ter							led or received
date or time	of collection	n is considere	ed fraud an	d may be grounds fo	r legal action.	Salpaka ba:	uflkliane Ben	zvia		<del></del>		packed	in ICE	at an avg ter	np abov				- wadness of	•74	
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Relieguist	ed by: (Sig	nature)	Da	ate Tin	ne	Received by: (Signature)	Date	•	Time	2		AVO	5 Tel	mp °C	Ц_						
Sample Ma	trix: S - Soil.	Sd - Solid, Sæ	- Sludge. A	- Aqueous, O - Other	r		Contai	er Ty	pe: g -	glass	s, p -	poly/p	lastic	c, ag - am	ber g	ass, v	r - VO	A			
Note: San	ples are di	scarded 30	days after	results are reporte	ed unless ot	her arrangements are made	. Hazardous samples v	/ill be r	eturne	d to c	dient (	or disp	osed	of at the c	ient e	xpens	e. The	e report	for the an	alysis of the	above
samples is	applicable	only to tho	se sample	s received by the l	aboratory w	vith this COC. The liability of	the laboratory is limite	to the	amou	ınt pa	id for	on the	repo	rt.							

nt or disposed of at the client expense. The report for the analysis of the above for on the report.

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**Project Information** 

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Time impled	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	96500	BGDOC			Remarks	i
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Page 79 of 110

Printed: 10/13/2022 12:03:14PM

#### **Envirotech Analytical Laboratory**

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:	10/13/22	10:30		Work Order ID:	E210052
Phone:	(575) 631-6977	Date Logged In:	10/11/22	16:38		Logged In By:	Caitlin Christian
Email:	tom@pimaoil.com	Due Date:	10/17/22	17:00 (2 day TAT)			
Chain of	Custody (COC)						
	ne sample ID match the COC?		Yes				
	ne number of samples per sampling site location mate	ch the COC	Yes				
	amples dropped off by client or carrier?		Yes	Carrier: <u>U</u>	IDC		
	e COC complete, i.e., signatures, dates/times, reques	ted analyses?	Yes	Carrier. <u>c</u>	<u>)1 5</u>		
	Il samples received within holding time?		Yes				
	Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssio					Comments	s/Resolution
Sample 1	Turn Around Time (TAT)						
6. Did the	e COC indicate standard TAT, or Expedited TAT?		Yes				
Sample C	<u>Cooler</u>						
7. Was a	sample cooler received?		Yes				
8. If yes,	was cooler received in good condition?		Yes				
9. Was th	e 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				
	e sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples are minutes of sampling visible ice, record the temperature. Actual sample	received w/i 15	Yes				
	•	temperature. 4	<u> </u>				
	Container queous VOC samples present?		No				
	OC samples collected in VOA Vials?		NA				
	head space less than 6-8 mm (pea sized or less)?		NA				
	trip blank (TB) included for VOC analyses?		NA				
	on-VOC samples collected in the correct containers?		Yes				
	appropriate volume/weight or number of sample contain		Yes				
Field Lal		ers conected?	105				
	field sample labels filled out with the minimum info	rmation					
	ample ID?	imation.	Yes				
	pate/Time Collected?		Yes				
C	ollectors name?		No				
Sample I	Preservation_						
21. Does	the COC or field labels indicate the samples were pro-	eserved?	No				
22. Are sa	ample(s) correctly preserved?		NA				
24. Is lab	filteration required and/or requested for dissolved m	etals?	No				
Multipha	se Sample Matrix						
26. Does	the sample have more than one phase, i.e., multiphas	se?	No				
27. If yes	, does the COC specify which phase(s) is to be analy	zed?	NA				
Subcontr	act Laboratory						
	amples required to get sent to a subcontract laborator	w?	No				
	subcontract laboratory specified by the client and if	•	NA	Subcontract Lab	v na		
	· - ·		- 11.2	Subcontract Lab	,. nu		
Client II	<u>istruction</u>						

Report to:
Gio Gomez



5796 U.S. Hwy 64 Farmington, NM 87401

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





## envirotech

Practical Solutions for a Better Tomorrow

## **Analytical Report**

Pima Environmental Services-Carlsbad

Project Name: Morab 29-90 Fed Com 2H

Work Order: E411259

Job Number: 01058-0007

Received: 11/26/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 11/26/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 11/26/24

Gio Gomez PO Box 247

Plains, TX 79355-0247

Project Name: Morab 29-90 Fed Com 2H

Workorder: E411259

Date Received: 11/26/2024 7:00:35AM

Gio Gomez,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/26/2024 7:00:35AM, under the Project Name: Morab 29-90 Fed Com 2H.

The analytical test results summarized in this report with the Project Name: Morab 29-90 Fed Com 2H 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 reguarding 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

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

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Laboratory Technical Representative Office: 505-421-LABS(5227)

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**Michelle Gonzales** 

Client Representative

Office: 505-421-LABS(5227)

Cell: 505-947-8222

mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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## **Sample Summary**

Pima Environmental Services-Carlsbad	Project Name:	Morab 29-90 Fed Com 2H	Donoutodo
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Gio Gomez	11/26/24 13:35

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CS1 @ Surface -4'	E411259-01A	Soil	11/25/24	11/26/24	Glass Jar, 2 oz.
CS2 @ Surface -4'	E411259-02A	Soil	11/25/24	11/26/24	Glass Jar, 2 oz.
CS3 @ Surface -4'	E411259-03A	Soil	11/25/24	11/26/24	Glass Jar, 2 oz.
CS4 @ Surface -4'	E411259-04A	Soil	11/25/24	11/26/24	Glass Jar, 2 oz.
CS5 @ Surface -4'	E411259-05A	Soil	11/25/24	11/26/24	Glass Jar, 2 oz.
CSW1 @ Surface -4' COMP	E411259-06A	Soil	11/25/24	11/26/24	Glass Jar, 2 oz.
CSW2 @ Surface -4' COMP	E411259-07A	Soil	11/25/24	11/26/24	Glass Jar, 2 oz.
CSW3 @ Surface -4' COMP	E411259-08A	Soil	11/25/24	11/26/24	Glass Jar, 2 oz.
CSW4 @ Surface -4' COMP	E411259-09A	Soil	11/25/24	11/26/24	Glass Jar, 2 oz.
CSW5 @ Surface -4' COMP	E411259-10A	Soil	11/25/24	11/26/24	Glass Jar, 2 oz.
CSW6 @ Surface -4' COMP	E411259-11A	Soil	11/25/24	11/26/24	Glass Jar, 2 oz.

Pima Environmental Services-Carlsbad	Project Name:	Morab 29-90 Fed Com 2H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Gio Gomez	11/26/2024 1:35:18PM

## CS1 @ Surface -4' E411259-01

	E411239-01				
Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Analy	yst: SL		Batch: 2448025
ND	0.0250	1	11/25/24	11/26/24	
ND	0.0250	1	11/25/24	11/26/24	
ND	0.0250	1	11/25/24	11/26/24	
ND	0.0250	1	11/25/24	11/26/24	
ND	0.0500	1	11/25/24	11/26/24	
ND	0.0250	1	11/25/24	11/26/24	
	88.1 %	70-130	11/25/24	11/26/24	
mg/kg	mg/kg	Analy	yst: SL		Batch: 2448025
ND	20.0	1	11/25/24	11/26/24	
	92.5 %	70-130	11/25/24	11/26/24	
mg/kg	mg/kg	Analy	yst: AF		Batch: 2448023
ND	25.0	1	11/26/24	11/26/24	
ND	50.0	1	11/26/24	11/26/24	
	96.8 %	50-200	11/26/24	11/26/24	
mg/kg	mg/kg	Analy	yst: DT		Batch: 2448029
84.7	20.0	1	11/26/24	11/26/24	
	mg/kg ND Mg/kg ND mg/kg	Result         Reporting           mg/kg         mg/kg           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0500           ND         0.0250           88.1 %         mg/kg           mg/kg         mg/kg           ND         20.0           92.5 %         mg/kg           ND         25.0           ND         50.0           96.8 %         mg/kg           mg/kg         mg/kg	Reporting           Result         Limit         Dilution           mg/kg         mg/kg         Analy           ND         0.0250         1           88.1 %         70-130           mg/kg         mg/kg         Analy           ND         20.0         1           92.5 %         70-130           mg/kg         mg/kg         Analy           ND         25.0         1           ND         50.0         1           96.8 %         50-200           mg/kg         mg/kg         Analy	Reporting           Result         Limit         Dilution         Prepared           mg/kg         Analyst: SL           ND         0.0250         1         11/25/24           ND         0.0250         1         11/25/24           ND         0.0250         1         11/25/24           ND         0.0500         1         11/25/24           ND         0.0250         1         11/25/24           ND         0.0250         1         11/25/24           mg/kg         Mg/kg         Analyst: SL           ND         20.0         1         11/25/24           mg/kg         Mg/kg         Analyst: AF           ND         25.0         1         11/26/24           ND         50.0         1         11/26/24           ND         50.0         1         11/26/24           Mg/kg         Mg/kg         Analyst: AF	Reporting           Result         Limit         Dilution         Prepared         Analyzed           mg/kg         mg/kg         Analyst: SL           ND         0.0250         1         11/25/24         11/26/24           ND         0.0250         1         11/25/24         11/26/24           ND         0.0250         1         11/25/24         11/26/24           ND         0.0500         1         11/25/24         11/26/24           ND         0.0250         1         11/25/24         11/26/24           ND         0.0250         1         11/25/24         11/26/24           Mg/kg         mg/kg         Analyst: SL         11/26/24           ND         20.0         1         11/25/24         11/26/24           mg/kg         mg/kg         Analyst: SL         11/26/24         11/26/24           ND         20.0         1         11/25/24         11/26/24           mg/kg         mg/kg         Analyst: AF           ND         25.0         1         11/26/24         11/26/24           ND         50.0         1         11/26/24         11/26/24           ND         50.0

Pima Environmental Services-Carlsbad	Project Name:	Morab 29-90 Fed Com 2H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Gio Gomez	11/26/2024 1:35:18PM

## CS2 @ Surface -4'

		Reporting				
Analyte	Result	Limit	Dilutio	on Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ar	nalyst: SL		Batch: 2448025
Benzene	ND	0.0250	1	11/25/24	11/26/24	
Ethylbenzene	ND	0.0250	1	11/25/24	11/26/24	
Toluene	ND	0.0250	1	11/25/24	11/26/24	
o-Xylene	ND	0.0250	1	11/25/24	11/26/24	
p,m-Xylene	ND	0.0500	1	11/25/24	11/26/24	
Total Xylenes	ND	0.0250	1	11/25/24	11/26/24	
Surrogate: 4-Bromochlorobenzene-PID		88.8 %	70-130	11/25/24	11/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ar	nalyst: SL		Batch: 2448025
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/25/24	11/26/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.6 %	70-130	11/25/24	11/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ar	nalyst: AF		Batch: 2448023
Diesel Range Organics (C10-C28)	ND	25.0	1	11/26/24	11/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/26/24	11/26/24	
Surrogate: n-Nonane		108 %	50-200	11/26/24	11/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ar	nalyst: DT		Batch: 2448029
Chloride	498	20.0	1	11/26/24	11/26/24	



Pima Environmental Services-Carlsbad	Project Name:	Morab 29-90 Fed Com 2H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Gio Gomez	11/26/2024 1:35:18PM

## CS3 @ Surface -4'

		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: SL		Batch: 2448025
Benzene	ND	0.0250	1	11/25/24	11/26/24	
Ethylbenzene	ND	0.0250	1	11/25/24	11/26/24	
Toluene	ND	0.0250	1	11/25/24	11/26/24	
o-Xylene	ND	0.0250	1	11/25/24	11/26/24	
p,m-Xylene	ND	0.0500	1	11/25/24	11/26/24	
Total Xylenes	ND	0.0250	1	11/25/24	11/26/24	
Surrogate: 4-Bromochlorobenzene-PID		88.5 %	70-130	11/25/24	11/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: SL		Batch: 2448025
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/25/24	11/26/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.4 %	70-130	11/25/24	11/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: AF		Batch: 2448023
Diesel Range Organics (C10-C28)	ND	25.0	1	11/26/24	11/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/26/24	11/26/24	
Surrogate: n-Nonane		104 %	50-200	11/26/24	11/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: DT		Batch: 2448029
Chloride	536	20.0	1	11/26/24	11/26/24	



Pima Environmental Services-Carlsbad	Project Name:	Morab 29-90 Fed Com 2H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Gio Gomez	11/26/2024 1:35:18PM

## CS4 @ Surface -4'

		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: SL		Batch: 2448025
Benzene	ND	0.0250	1	11/25/24	11/26/24	
Ethylbenzene	ND	0.0250	1	11/25/24	11/26/24	
Toluene	ND	0.0250	1	11/25/24	11/26/24	
o-Xylene	ND	0.0250	1	11/25/24	11/26/24	
p,m-Xylene	ND	0.0500	1	11/25/24	11/26/24	
Total Xylenes	ND	0.0250	1	11/25/24	11/26/24	
Surrogate: 4-Bromochlorobenzene-PID		88.7 %	70-130	11/25/24	11/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: SL		Batch: 2448025
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/25/24	11/26/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.1 %	70-130	11/25/24	11/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: AF		Batch: 2448023
Diesel Range Organics (C10-C28)	ND	25.0	1	11/26/24	11/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/26/24	11/26/24	
Surrogate: n-Nonane		112 %	50-200	11/26/24	11/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: DT		Batch: 2448029
Chloride	475	20.0	1	11/26/24	11/26/24	



Pima Environmental Services-Carlsbad	Project Name:	Morab 29-90 Fed Com 2H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Gio Gomez	11/26/2024 1:35:18PM

## CS5 @ Surface -4'

Rep					
Result	Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Analy	vst: SL		Batch: 2448025
ND	0.0250	1	11/25/24	11/26/24	
ND	0.0250	1	11/25/24	11/26/24	
ND	0.0250	1	11/25/24	11/26/24	
ND	0.0250	1	11/25/24	11/26/24	
ND	0.0500	1	11/25/24	11/26/24	
ND	0.0250	1	11/25/24	11/26/24	
	88.6 %	70-130	11/25/24	11/26/24	
mg/kg	mg/kg	Analy	st: SL		Batch: 2448025
ND	20.0	1	11/25/24	11/26/24	
	93.7 %	70-130	11/25/24	11/26/24	
mg/kg	mg/kg	Analy	vst: AF		Batch: 2448023
32.0	25.0	1	11/26/24	11/26/24	_
52.1	50.0	1	11/26/24	11/26/24	
	108 %	50-200	11/26/24	11/26/24	
mg/kg	mg/kg	Analy	vst: DT		Batch: 2448029
	mg/kg ND ND ND ND ND ND ND ND ND SSSSSSSSSSS	mg/kg         mg/kg           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0500           ND         0.0250           MD         0.0250           MD         0.0250           88.6 %         mg/kg           MD         20.0           93.7 %         mg/kg           mg/kg         mg/kg           32.0         25.0           52.1         50.0	Result         Limit         Dilution           mg/kg         mg/kg         Analy           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0500         1           ND         0.0250         1           MD         0.0250         1           88.6 %         70-130           mg/kg         mg/kg         Analy           ND         20.0         1           93.7 %         70-130         1           mg/kg         mg/kg         Analy           32.0         25.0         1           52.1         50.0         1	Result         Limit         Dilution         Prepared           mg/kg         mg/kg         Analyst: SL           ND         0.0250         1         11/25/24           ND         0.0250         1         11/25/24           ND         0.0250         1         11/25/24           ND         0.0250         1         11/25/24           ND         0.0500         1         11/25/24           ND         0.0250         1         11/25/24           mg/kg         mg/kg         Analyst: SL           mg/kg         mg/kg         Analyst: SL           ND         20.0         1         11/25/24           mg/kg         mg/kg         Analyst: AF           32.0         25.0         1         11/26/24           52.1         50.0         1         11/26/24	Result         Limit         Dilution         Prepared         Analyzed           mg/kg         mg/kg         Analyst: SL           ND         0.0250         1         11/25/24         11/26/24           ND         0.0250         1         11/25/24         11/26/24           ND         0.0250         1         11/25/24         11/26/24           ND         0.0500         1         11/25/24         11/26/24           ND         0.0250         1         11/25/24         11/26/24           ND         0.0250         1         11/25/24         11/26/24           88.6 %         70-130         11/25/24         11/26/24           mg/kg         mg/kg         Analyst: SL           ND         20.0         1         11/25/24         11/26/24           mg/kg         mg/kg         Analyst: AF         11/26/24         11/26/24           32.0         25.0         1         11/26/24         11/26/24         11/26/24           52.1         50.0         1         11/26/24         11/26/24         11/26/24



Pima Environmental Services-Carlsbad	Project Name:	Morab 29-90 Fed Com 2H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Gio Gomez	11/26/2024 1:35:18PM

## CSW1 @ Surface -4' COMP

		211120, 00				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Analyte	Result	Lillit	Dilution	Frepared	Allalyzeu	riotes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: SL		Batch: 2448025
Benzene	ND	0.0250	1	11/25/24	11/26/24	
Ethylbenzene	ND	0.0250	1	11/25/24	11/26/24	
Toluene	ND	0.0250	1	11/25/24	11/26/24	
o-Xylene	ND	0.0250	1	11/25/24	11/26/24	
p,m-Xylene	ND	0.0500	1	11/25/24	11/26/24	
Total Xylenes	ND	0.0250	1	11/25/24	11/26/24	
Surrogate: 4-Bromochlorobenzene-PID		96.7 %	70-130	11/25/24	11/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: SL		Batch: 2448025
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/25/24	11/26/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.0 %	70-130	11/25/24	11/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: AF		Batch: 2448023
Diesel Range Organics (C10-C28)	ND	25.0	1	11/26/24	11/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/26/24	11/26/24	
Surrogate: n-Nonane		104 %	50-200	11/26/24	11/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: DT		Batch: 2448029
Chloride	ND	20.0	1	11/26/24	11/26/24	



Pima Environmental Services-Carlsbad	Project Name:	Morab 29-90 Fed Com 2H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Gio Gomez	11/26/2024 1:35:18PM

## CSW2 @ Surface -4' COMP

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: SL		Batch: 2448025
Benzene	ND	0.0250	1	11/25/24	11/26/24	
Ethylbenzene	ND	0.0250	1	11/25/24	11/26/24	
Toluene	ND	0.0250	1	11/25/24	11/26/24	
o-Xylene	ND	0.0250	1	11/25/24	11/26/24	
p,m-Xylene	ND	0.0500	1	11/25/24	11/26/24	
Total Xylenes	ND	0.0250	1	11/25/24	11/26/24	
Surrogate: 4-Bromochlorobenzene-PID		97.1 %	70-130	11/25/24	11/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	/st: SL		Batch: 2448025
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/25/24	11/26/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.3 %	70-130	11/25/24	11/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	/st: AF		Batch: 2448023
Diesel Range Organics (C10-C28)	ND	25.0	1	11/26/24	11/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/26/24	11/26/24	
Surrogate: n-Nonane		110 %	50-200	11/26/24	11/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	/st: DT		Batch: 2448029



Pima Environmental Services-G	Carlsbad Project Name:	Morab 29-90 Fed Com 2H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager	: Gio Gomez	11/26/2024 1:35:18PM

## CSW3 @ Surface -4' COMP

		211120, 00				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Analyte	Result	Liiiit	Dilution	Frepared	Anaryzeu	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: SL		Batch: 2448025
Benzene	ND	0.0250	1	11/25/24	11/26/24	
Ethylbenzene	ND	0.0250	1	11/25/24	11/26/24	
Toluene	ND	0.0250	1	11/25/24	11/26/24	
o-Xylene	ND	0.0250	1	11/25/24	11/26/24	
p,m-Xylene	ND	0.0500	1	11/25/24	11/26/24	
Total Xylenes	ND	0.0250	1	11/25/24	11/26/24	
Surrogate: 4-Bromochlorobenzene-PID		96.9 %	70-130	11/25/24	11/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: SL		Batch: 2448025
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/25/24	11/26/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.0 %	70-130	11/25/24	11/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: AF		Batch: 2448023
Diesel Range Organics (C10-C28)	ND	25.0	1	11/26/24	11/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/26/24	11/26/24	
Surrogate: n-Nonane		112 %	50-200	11/26/24	11/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: DT		Batch: 2448029
Chloride	ND	20.0	1	11/26/24	11/26/24	



Pima Environmental Services-Carlsbad	Project Name:	Morab 29-90 Fed Com 2H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Gio Gomez	11/26/2024 1:35:18PM

## CSW4 @ Surface -4' COMP

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	ılyst: SL		Batch: 2448025
Benzene	ND	0.0250	1	11/25/24	11/26/24	
Ethylbenzene	ND	0.0250	1	11/25/24	11/26/24	
Toluene	ND	0.0250	1	11/25/24	11/26/24	
o-Xylene	ND	0.0250	1	11/25/24	11/26/24	
p,m-Xylene	ND	0.0500	1	11/25/24	11/26/24	
Total Xylenes	ND	0.0250	1	11/25/24	11/26/24	
Surrogate: 4-Bromochlorobenzene-PID		97.0 %	70-130	11/25/24	11/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	ılyst: SL		Batch: 2448025
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/25/24	11/26/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.4 %	70-130	11/25/24	11/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	ılyst: AF		Batch: 2448023
Diesel Range Organics (C10-C28)	ND	25.0	1	11/26/24	11/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/26/24	11/26/24	
Surrogate: n-Nonane		112 %	50-200	11/26/24	11/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	ılyst: DT		Batch: 2448029
Amons by ETA 300.0/7030A						



Pima Environmental Services-G	Carlsbad Project Name:	Morab 29-90 Fed Com 2H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager	: Gio Gomez	11/26/2024 1:35:18PM

## CSW5 @ Surface -4' COMP

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: SL		Batch: 2448025
Benzene	ND	0.0250	1	11/25/24	11/26/24	
Ethylbenzene	ND	0.0250	1	11/25/24	11/26/24	
Toluene	ND	0.0250	1	11/25/24	11/26/24	
o-Xylene	ND	0.0250	1	11/25/24	11/26/24	
p,m-Xylene	ND	0.0500	1	11/25/24	11/26/24	
Total Xylenes	ND	0.0250	1	11/25/24	11/26/24	
Surrogate: 4-Bromochlorobenzene-PID		96.7 %	70-130	11/25/24	11/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: SL		Batch: 2448025
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/25/24	11/26/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		88.9 %	70-130	11/25/24	11/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: AF		Batch: 2448023
Diesel Range Organics (C10-C28)	ND	25.0	1	11/26/24	11/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	11/26/24	11/26/24	
Surrogate: n-Nonane		109 %	50-200	11/26/24	11/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: DT		Batch: 2448029



Pima Environmental Services-Carlsbad	Project Name:	Morab 29-90 Fed Com 2H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Gio Gomez	11/26/2024 1:35:18PM

## CSW6 @ Surface -4' COMP

11/26/24 11/26/24 11/26/24	Notes Batch: 2448025
11/26/24	Batch: 2448025
11/26/24	
11/26/24	
11/20/24	
11/26/24	
11/26/24	
11/26/24	
11/26/24	
	Batch: 2448025
11/26/24	
11/26/24	
	Batch: 2448023
11/26/24	
11/26/24	
11/26/24	
	Batch: 2448029
11/26/24	_
	11/26/24 11/26/24 11/26/24 11/26/24 11/26/24 11/26/24



Surrogate: 4-Bromochlorobenzene-PID

## **QC Summary Data**

Pima Environmental Services-Carlsbad	Project Name:	Morab 29-90 Fed Com 2H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	11/26/2024 1:35:18PM

PO Box 247 Plains TX, 79355-0247	Project Number: Project Manager:		058-0007 o Gomez				11/	26/2024 1:35:18PM	
		Volatile Oı	rganics b	y EPA 802	1B				Analyst: SL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2448025-BLK1)							Prepared: 11	1/25/24 Anal	lyzed: 11/26/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.03		8.00		87.8	70-130			
LCS (2448025-BS1)							Prepared: 1	1/25/24 Anal	lyzed: 11/25/24
Benzene	4.86	0.0250	5.00		97.1	70-130			
Ethylbenzene	4.66	0.0250	5.00		93.1	70-130			
Toluene	4.78	0.0250	5.00		95.6	70-130			
o-Xylene	4.66	0.0250	5.00		93.3	70-130			
p,m-Xylene	9.47	0.0500	10.0		94.7	70-130			
Total Xylenes	14.1	0.0250	15.0		94.2	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.09		8.00		88.6	70-130			
LCS Dup (2448025-BSD1)							Prepared: 1	1/25/24 Anal	lyzed: 11/25/24
Benzene	5.46	0.0250	5.00		109	70-130	11.7	20	
Ethylbenzene	5.23	0.0250	5.00		105	70-130	11.6	20	
Toluene	5.37	0.0250	5.00		107	70-130	11.7	20	
o-Xylene	5.25	0.0250	5.00		105	70-130	11.8	20	
p,m-Xylene	10.6	0.0500	10.0		106	70-130	11.4	20	
Total Xylenes	15.9	0.0250	15.0		106	70-130	11.5	20	

70-130



## **QC Summary Data**

Pima Environmental Services-CarlsbadProject Name:Morab 29-90 Fed Com 2HReported:PO Box 247Project Number:01058-0007Plains TX, 79355-0247Project Manager:Gio Gomez11/26/20241:35:18PM

Nonhalogenated	<b>Organics</b>	by EPA	8015D -	GRO

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

Blank (2448025-BLK1)						Prepared: 11/2	5/24 Analy	zed: 11/26/24
Gasoline Range Organics (C6-C10)	ND	20.0						
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.52		8.00	94.1	70-130			
LCS (2448025-BS2)						Prepared: 11/2	5/24 Analy	zed: 11/25/24
Gasoline Range Organics (C6-C10)	38.2	20.0	50.0	76.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.59		8.00	94.8	70-130			
LCS Dup (2448025-BSD2)						Prepared: 11/2	5/24 Analy	zed: 11/25/24
Gasoline Range Organics (C6-C10)	38.0	20.0	50.0	76.1	70-130	0.407	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.66		8.00	95.7	70-130			



Surrogate: n-Nonane

## **QC Summary Data**

Pima Environmental Services-CarlsbadProject Name:Morab 29-90 Fed Com 2HReported:PO Box 247Project Number:01058-0007Plains TX, 79355-0247Project Manager:Gio Gomez11/26/20241:35:18PM

Fiams 1A, 79333-0247		Froject Manager	i. Gi	o Goillez				117.	20/2024 1.55.1611			
	Nonha	Nonhalogenated Organics by EPA 8015D - DRO/ORO										
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits	RPD %	RPD Limit %	Notes			
Blank (2448023-BLK1)							Prepared: 1	1/25/24 Anal	yzed: 11/25/24			
Diesel Range Organics (C10-C28)	ND	25.0										
Oil Range Organics (C28-C36)	ND	50.0										
Surrogate: n-Nonane	44.6		50.0		89.3	50-200						
LCS (2448023-BS1)							Prepared: 1	1/25/24 Anal	yzed: 11/25/24			
Diesel Range Organics (C10-C28)	239	25.0	250		95.8	38-132						
Surrogate: n-Nonane	46.7		50.0		93.4	50-200						
LCS Dup (2448023-BSD1)							Prepared: 1	1/25/24 Anal	yzed: 11/25/24			
Diesel Range Organics (C10-C28)	247	25.0	250		98.8	38-132	3.08	20				

97.1

50-200

Chloride

Chloride

LCS Dup (2448029-BSD1)

## **QC Summary Data**

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247		Project Name: Project Number: Project Manager:	(	Morab 29-90 Fe 01058-0007 Gio Gomez	ed Com 2F	I	Reported: 11/26/2024 1:35:18					
		Anions	by EPA	300.0/9056	<b>\</b>				Analyst: DT			
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit				
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes			
Blank (2448029-BLK1)							Prepared: 1	1/26/24 Ana	alyzed: 11/26/24			
Chloride	ND	20.0										
LCS (2448029-BS1)						Prepared: 1	1/26/24 Ana	alyzed: 11/26/24				

250

250

90-110

90-110

0.104

Prepared: 11/26/24 Analyzed: 11/26/24

20

102

102

254

254

20.0

20.0

#### 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:	Morab 29-90 Fed Com 2H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Gio Gomez	11/26/24 13:35

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

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

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



**Project Information** 

Chain of Custody

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Client: Pi	ma Envi	ronmen	tal Servi	ces Pom 2H		Attention: Devon		lah	WO#			Job I		rer	1	D	2D		Standard	CWA	SDWA
Project: / Project M	<i>r (011</i> 04.) lanager:	Gio Go	mez	<u>                                    </u>	<b>.</b>	Address:		E	4116	25	数	MO	58.	<b>DEO</b> .	71	X					
Address:	5614 N.	Loving	ton Hwy.			City, State, Zip						Analy	sis an	d Met	hod	·		<del></del> 7			RCRA
City, State	e, Zip Ho	obbs. N	M. 88240			Phone:										ļ			State of the same	Ctata	L
Phone: 8						Email:		-  g	8				ا ۾		- 1				NMICO	State UT AZ	וצד
Email: (		aoil.cor	<u>n</u>		•	Pima Project # 208		2	ă ă	1021	92	9	8	İ		ξ	¥		V V	10112	
Report d			T	<del>                                     </del>	<u> </u>	300	Lab	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			ğ	1			Den!	·
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID			Number	. 8	GR O	E	ğ	Met	Chlo	$\perp$	_	верос	ЭОДБЯ			Remarks	
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8-16	,]					Surface -4'	2		<u> </u>	<u> </u>		ļ			_	1		-	<u> </u>		
8:23				cs3	<u>න</u>	Surface-4'	3	1	_	<u> </u>	_	_				1		_			
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8:41			·	CS5 @	€ €	for Face-4'	5									1	_	_			
8.45				cswl	6	Surface-4' COMP	6			_						$\downarrow$	_	_			
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Addition	nal Instru					Billing#21181191								<del></del> .							1.4
						aware that tampering with or intentionally mislat	elling the sam	ple loca	tion,										rectived on ice the da n 6°C on subsequent		xea or receivea
			red fraud and	may be grounds for		action. Sampled by:	Date		Tim	e	_	+						Jse O			
Relinquished by: (Signature)    Carimo House   Date   25/24   Time   25/24   Time   25/24   Time   25/24   Time   25/24   1450   Received on ice:											ce:	_			••••						
Reinquisi	ned by: (Sig	nature)	Da		72		Date //.2	5.20		12:	30	T1	<i>r</i> 1		٠ .	12	-		13		
	ned by: (Sig		Da	7<711	ne 7 (//	Received by: (Signature)	Date	'o.20	1 7		)	AV	a te	mp <sup>o</sup> C	4						
Sample Man	trix: 5 - Soil	Sd - Solid, S	g - Sludge. A -	Agueous, O - Other	-41	- www.pan	Contai	ner Ty	pe: g	- glas	s, p -	poly/	plasti	c, ag - a	ambe	er gla	ass, v	- VO	A		
Noto: San	ple Matrix: S - Soil, Sd - Soild, Sg - Sludge, A - Aqueous, O - Other Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA  e: 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 applies 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.																				
samples i	s applicable	enly to th	ose sample:	received by the l	abora	tory with this COC. The liability of the labora	ory is limite	to the	e amo	unt pa	id for	on the	repo	rt.							



**Project Information** 

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Chain of Custody

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Page	<u></u>	of	ب_	

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	lanager:					Address:			EL	مُللا	59				<u>ത്ത</u>		X)			1. T. J. T.		
Address:	5614 N.	Lovingto	on Hwy.		e (1,20°)	City, State, Zip							Analys	is an	d Meth	od i						RCRA
	e, Zip Ho		<i>1</i> . 88240		The second	Phone:					l		ŀ							A Section of the subsection	Charta	L
Phone: 8	306-782 <b>-</b>	1151			A. 19	Email:			됩	5	l		-					-		NINAL CO.	State	<del></del>
	gio@pim	aoil.com	1		1	Pima Project #	208		8	8 A	ន្ត [	8	ᆲᅵ	8			ξ	څ		NM CO	UT AZ	<del>  '^                                   </del>
Report d	ue by:	<u> </u>	<del>;</del>	<del></del>		Tima Project #	400	Lish	용	%	8 6	× 82	. Se	de 3	- 1			- 1			L <b>L</b>	<del></del>
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	$\perp$	_	86500	80000			Remarks	
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						aware that tampering wit	th or intentionally mislabell	į.	le locat	ion,										ed on ice the day on subsequent d		oled or received
				may be grounds	ime ior iegai	Resolved by 19	Rignature)	Date		Time	<del></del>		1				La	b Us	se Only			
Relinquished by: (Signature)  Relinquished by: (Signature)  Relinquished by: (Signature)  Date  Date  Relinquished by: (Signature)  Date  Relinquished by: (Signature)  Relinquished by: (Signature)						11.72		10	42	0	Rec	eive	d on ic	:e:	_	/ N	•					
VVic	hed by: (Sign	2000	ies Dat	1-25-24	INJ.	(2     // /	V .	1//7	5.24	4	17:	<u>50</u>	11			-	T2	4		13.		
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Sample Ma	trix; S - Soil. S	id - Solid, Sg	- Sludge, A -	Aqueous, O - Ot	her		_	Container Type: g - glass, p - poly/plastic, ag - amber glass, v - vox														
Note: Sar	noles are di	carded 30	days after r	esults are repo	rted un	less other arrangement	s are made. Hazardous	samples wi	ll be re	turne	d to c	lient c	r disp	osed c	of at the	clien	t expo	ense.	The rep	ort for the ar	alysis of th	e above
comples i	e annlicable	only to the	se samples	received by th	e labora	tory with this COC. The	liability of the laborator	ry is limited	to the	amou	nt pai	d for (	on the	repor	t							



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Printed: 11/26/2024 10:41:07AM

## **Envirotech Analytical Laboratory**

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:	11/26/24 0	7:00	Work Order ID:	E411259
Phone:	(575) 631-6977	Date Logged In:	11/25/24 1	6:26	Logged In By:	Noe Soto
Email:	gio@pimaoil.com	Due Date:	11/26/24 1	7:00 (0 day TAT)		
	f Custody (COC)		37			
	the sample ID match the COC? The number of samples per sampling site location matcl	h the COC	Yes			
	samples dropped off by client or carrier?	ii tile COC	Yes	a : 6		
	ne COC complete, i.e., signatures, dates/times, requeste	ed analysee?	Yes No	Carrier: <u>C</u>	<u>ourier</u>	
	all samples received within holding time?	ed analyses.	Yes			
3. Were	Note: Analysis, such as pH which should be conducted in t i.e, 15 minute hold time, are not included in this disucssion		103		Comme	nts/Resolution
	Turn Around Time (TAT) e COC indicate standard TAT, or Expedited TAT?		Yes		No. of containers and	sampled by name are
Sample	•				missing on COC by cl	ient,
	sample cooler received?		Yes		,	,
	was cooler received in good condition?		Yes			
9. Was th	ne sample(s) received intact, i.e., not broken?		Yes			
	custody/security seals present?		No			
	s, were custody/security seals intact?		NA			
•	he sample received on ice? If yes, the recorded temp is 4°C, i.  Note: Thermal preservation is not required, if samples are r minutes of sampling		Yes			
13. If no	visible ice, record the temperature. Actual sample to	emperature: 4°C	<u> </u>			
Sample	Container					
14. Are a	aqueous VOC samples present?		No			
15. Are 3	VOC samples collected in VOA Vials?		NA			
16. Is the	e 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 r	non-VOC samples collected in the correct containers?		Yes			
19. Is the	appropriate volume/weight or number of sample containe	rs collected?	Yes			
Field La	<u>bel</u>					
	field sample labels filled out with the minimum inform	mation:				
	Sample ID? Date/Time Collected?		Yes			
	Collectors name?		Yes No			
	Preservation		NO			
	the COC or field labels indicate the samples were pre-	served?	No			
22. Are s	sample(s) correctly preserved?		NA			
24. Is lat	o filteration required and/or requested for dissolved me	tals?	No			
<u>Mu</u> ltiph	ase Sample Matrix					
	the sample have more than one phase, i.e., multiphase	?	No			
	s, does the COC specify which phase(s) is to be analyz		NA			
	ract Laboratory					
	samples required to get sent to a subcontract laboratory	n	No			
	a subcontract laboratory specified by the client and if s		NA	Subcontract Lab	: NA	
Client I	<u>nstruction</u>					
<u> </u>	ture of client authorizing changes to the COC or sample dispo	esition.			Date	– 🥝 envirotech I

Sante Fe Main Office Phone: (505) 476-3441 General Information Phone: (505) 629-6116

Phone: (505) 629-6116

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

QUESTIONS

Action 407775

#### **QUESTIONS**

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	407775
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### QUESTIONS

Prerequisites		
Incident ID (n#)	nOY1827057150	
Incident Name	NOY1827057150 MORAB 29-20 FED COM 2H @ 30-025-43775	
Incident Type	Produced Water Release	
Incident Status	Remediation Closure Report Received	
Incident Well	[30-025-43775] MORAB 29 20 FEDERAL COM #002H	

Location of Release Source	
Please answer all the questions in this group.	
Site Name	MORAB 29-20 FED COM 2H
Date Release Discovered	09/19/2018
Surface Owner	Federal

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

Nature and Volume of Release		
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.		
Crude Oil Released (bbls) Details	Not answered.	
Produced Water Released (bbls) Details	Cause: Equipment Failure   Other (Specify)   Produced Water   Released: 30 BBL   Recovered: 24 BBL   Lost: 6 BBL.	
Is the concentration of chloride in the produced water >10,000 mg/l	Yes	
Condensate Released (bbls) Details	Not answered.	
Natural Gas Vented (Mcf) Details	Not answered.	
Natural Gas Flared (Mcf) Details	Not answered.	
Other Released Details	Not answered.	
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.	

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

QUESTIONS, Page 2

Action 407775

QUESTI	ONS (continued)
Operator:  DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137 Action Number: 407775 Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)
QUESTIONS	
Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e	e. gas only) are to be submitted on the C-129 form.
Initial Response	
The responsible party must undertake the following actions immediately unless they could create a s	afety hazard that would result in injury. T
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.
	ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for releathe OCD does not relieve the operator of liability should their operations have failed to a	knowledge and understand that pursuant to OCD rules and regulations all operators are require ases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.raley@dvn.com Date: 12/03/2024

Sante Fe Main Office Phone: (505) 476-3441 General Information

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

QUESTIONS, Page 3

Action 407775

#### QUESTIONS (continued)

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	407775
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### QUESTIONS

Site Characterization		
Please answer all the questions in this group (only required when seeking remediation plan approva release discovery date.	l and beyond). This information must be provided to the appropriate district office no later than 90 days after the	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)	
What method was used to determine the depth to ground water	NM OSE iWaters Database Search	
Did this release impact groundwater or surface water	No	
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:		
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)	
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)	
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)	
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)	
Any other fresh water well or spring	Greater than 5 (mi.)	
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)	
A wetland	Between 1 and 5 (mi.)	
A subsurface mine	Greater than 5 (mi.)	
An (non-karst) unstable area	Greater than 5 (mi.)	
Categorize the risk of this well / site being in a karst geology	Low	
A 100-year floodplain	Greater than 5 (mi.)	
Did the release impact areas not on an exploration, development, production, or storage site	No	

Remediation Plan		
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
Requesting a remediation plan approval with this submission	Yes	
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.		
Have the lateral and vertical extents of contamination been fully delineated	Yes	
Was this release entirely contained within a lined containment area	No	
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)		
Chloride (EPA 300.0 or SM4500 Cl B)	447	
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	0	
GRO+DRO (EPA SW-846 Method 8015M)	0	
BTEX (EPA SW-846 Method 8021B or 8260B)	0	
Benzene (EPA SW-846 Method 8021B or 8260B)	0	
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed e which includes the anticipated timelines for beginning and completing the remediation.	offorts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,	
On what estimated date will the remediation commence	11/27/2024	
On what date will (or did) the final sampling or liner inspection occur	11/25/2024	
On what date will (or was) the remediation complete(d)	11/27/2024	
What is the estimated surface area (in square feet) that will be reclaimed	0	
What is the estimated volume (in cubic yards) that will be reclaimed	0	
What is the estimated surface area (in square feet) that will be remediated	0	
What is the estimated volume (in cubic yards) that will be remediated	0	
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.		

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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

QUESTIONS, Page 4

Action 407775

**QUESTIONS** (continued)

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	407775
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### QUESTIONS

Remediation Plan (continued)		
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:		
(Select all answers below that apply.)		
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Not answered.	
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.	
(In Situ) Soil Vapor Extraction	Not answered.	
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.	
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.	
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.	
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.	
OTHER (Non-listed remedial process)	Yes	
Other Non-listed Remedial Process. Please specify	No soil removal required.	

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

I 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.

Name: James Raley Title: EHS Professional I hereby agree and sign off to the above statement Email: jim.raley@dvn.com Date: 12/03/2024

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

Sante Fe Main Office Phone: (505) 476-3441

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS, Page 5

Action 407775

**QUESTIONS** (continued)

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	407775
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### QUESTIONS

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

Sante Fe Main Office Phone: (505) 476-3441 General Information

Phone: (505) 629-6116

Online Phone Directory
<a href="https://www.emnrd.nm.gov/ocd/contact-us">https://www.emnrd.nm.gov/ocd/contact-us</a>

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

QUESTIONS, Page 6

Action 407775

QUESTIONS (continued)

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	407775
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	405392
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	11/25/2024
What was the (estimated) number of samples that were to be gathered	11
What was the sampling surface area in square feet	1000

Remediation Closure Request		
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.		
Requesting a remediation closure approval with this submission	Yes	
Have the lateral and vertical extents of contamination been fully delineated	Yes	
Was this release entirely contained within a lined containment area	No	
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes	
What was the total surface area (in square feet) remediated	0	
What was the total volume (cubic yards) remediated	0	
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes	
What was the total surface area (in square feet) reclaimed	0	
What was the total volume (in cubic yards) reclaimed	0	
Summarize any additional remediation activities not included by answers (above)	Devon has complied with the applicable remediation closure requirements set forth in rule 19.15.29.12 NMAC.	

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

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

I hereby agree and sign off to the above statement

Name: James Raley
Title: EHS Professional
Email: jim.raley@dvn.com
Date: 12/03/2024

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

QUESTIONS, Page 7

Action 407775

**QUESTIONS** (continued)

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	407775
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### QUESTIONS

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

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

CONDITIONS

Action 407775

#### **CONDITIONS**

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	407775
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### CONDITIONS

Created By	Condition	Condition Date
amaxwell	Remediation closure approved.	12/6/2024
amaxwell	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. The OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	12/6/2024