

# MULE 23-11 FED COM #822H

nAPP2305244923 Remediation Work Plan Report



For Devon Energy Production, LP  
By Pima Environmental Services, LLC

January 23, 2025

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

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

**Re: Remediation Work Plan Report  
Mule 23-11 Fed Com 822H  
API No. 30-015-49388  
GPS: Latitude 32.119956 Longitude -103.750099  
ULSTR - C - 23 - 25S - 31E 0 FNL 0 FEL Eddy County, NM  
NMOCD Incident ID nAPP2305244923**

This produced water release was discovered by the operator on January 15, 2023. The initial Notification of Release and C-141 form were submitted on February 21, 2023, and approved on February 22, 2023 (OCD Online: Permitting - Application IDs 188707 & 188715). A Corrected C-141 Form can be found in Appendix C. This incident was assigned Incident ID nAPP2305244923 by the New Mexico Oil Conservation Division (NMOCD).

### **Site Characterization**

The Mule release area is located approximately twenty (20) miles southeast of Malaga, NM. To correct the previously submitted report (OCD Online: Permitting - Application ID 239946) this spill site is in Unit D, Section 23, Township 25S, Range 31E, Latitude 32.119791 Longitude -103.757122, Eddy County, NM. Figure 1 references a Location Map.

Per the New Mexico Bureau of Geology and Mineral Resources, the geology is made up of Interlayered 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 Berino complex, 0 to 3 percent slopes, eroded according to the United States Department of Agriculture Natural Resources Conservation Service soil survey (Appendix B). The drainage class in this area is well drained. Reference Figure 2 for a Topographic Map. There is a low potential for karst geology to be present around the Mule (Figure 3).

According to the New Mexico Office of the State Engineer, depth to the nearest groundwater in this area is 390 feet below grade surface (BGS). According to the United States Geological Survey (USGS), the nearest groundwater is 406 feet BGS. Groundwater information near this well is more than ½-mile away and the release area is solely in the pasture so the closure criteria for this release will be classified under the <50' to groundwater section of Table 1 19.15.29.12 NMAC. The closest waterway is Red Bluff Reservoir located approximately 14.94 miles to the southwest of this location. See Appendix A for referenced water surveys and water-related maps.

The closure criteria for this release area will be classified under the less than 50-foot groundwater section of Table 1 19.15.29.12 NMAC as the area lies off the east edge of the pad surface.

### **Release Information**

**nAPP2305244923:** On January 15, 2023, a victaulic fitting on a lay flat hose developed a leak, causing fluid to be released. The released fluids were calculated to be approximately 25 barrels (bbls) of produced water. A vacuum truck was able to recover 15 bbls of standing fluid.

### **Countermeasures due to Remediation Closure Report Denied**

On May 24, 2023, Pima mobilized personnel to the site to begin collecting soil samples for delineation from spill area. Thirty-two (32) discreet samples were collected from within the release area for the purpose of determining vertical delineation. Ten (10) composite samples were collected from the edges of the release for the purpose of determining horizontal delineation. All samples were collected, put on ice, jarred, and delivered to Envirotech Labs for official testing. All samples were tested for all constituents. The Data Tables containing the laboratory results of this sampling event can be found in Figure 4. A Corrected Site Map can be

found in Figure 5 with all sample points labeled and the current image of the release area represented. Photographic Documentation can be found in Appendix D.

On June 8, 2024, Pima returned to the site to complete the delineation process and collect additional soil samples from the release area. Twenty-eight (28) additional samples were collected from within the release area and one (1) sample was collected from the nearby pasture for a background. All samples were collected, put on ice, jarred, and delivered to Envirotech Analytical Laboratories for official testing. All samples were tested for all the constituents listed in Table 1 19.15.29.12 NMAC. The Data Tables containing the results of this sampling event can also be found in Figure 4. A total of 71 samples were collected during the combined sampling events. Complete Laboratory Reports can be referenced in Appendix E.

On July 16, 2024, the NMOCD denied the remediation closure report citing: "The OCD has rejected the submitted Application for administrative approval of a release notification and corrective action (C-141), for incident ID (n#) nAPP2305244923, for the following reasons:

- **On the C-141 form where it says, "Is the concentration of dissolved chloride in the produced water >10,000 mg/l? If the "No" box is checked, the OCD will need a water sample taken from the water source. Please provide these results in the resubmission.**

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 357039. Please review and make the required correction(s) prior to resubmitting. If you have any questions why this application was rejected or believe it was rejected in error, please contact me prior to submitting an additional C-141." NMOCD Correspondence can be found in Appendix C.

On July 16, 2024, Pima and Devon began researching the water source for the frac of this site because there are 3 lay flat hoses currently present. The Devon completions department was able to provide the water source, Cotton Draw 22 Water Treatment Facility, and a Water Analysis Report (Figure 6) from May 30, 2024, that shows detailed analytical data from the water. The chloride result from this report is 76,874 mg/L, and the location of this facility can be found in the Water Source Location Map in Figure 7. The question on the C-141 form was answered incorrectly, the corrected form can be found in Appendix C.

### **Explanation Summary**

*To whom it may concern (c/o Dale Woodall for DEVON ENERGY PRODUCTION COMPANY, LP),  
The OCD has rejected the submitted Application for administrative approval of a release notification and corrective action (C-141), for incident ID (n#) nAPP2305244923, for the following reasons:*

- ***The Remediation Closure Report is Denied. Looking at the photos, it appears no excavation took place at this site. Please explain how the samples showed essentially no contaminants in the lab analyzed soil samples for chlorides, while the source water sample from the Cotton Draw 22 Water Treatment Facility was 76,874 mg/L. Also, please explain how five-point composite sidewall samples SW 1 and SW 2 (0-4' Comp) were completed, when there was no excavation.***

*The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 370483.  
Please review and make the required correction(s) prior to resubmitting. If you have any questions why this application was rejected or believe it was rejected in error, please contact me prior to submitting an additional C-141.*

In response to the above denial, the facts are that the GPS coordinates reported on the initial C-141 form do in fact match the GPS coordinates on this report. These coordinates are specific to the #822H wellhead location. Through further research into Devon's internal reporting system, the actual GPS coordinates for the initial point of release were found and are 32.1204928 latitude, -103.74948743 longitude, which is situated just east of the wellhead along the east edge of the pad surface. Initial pictures of the release right after discovery verify these facts. So, the area of concern that has been tested on two different occasions during the last two years is the incorrect release area. This explains why this incorrect area has not tested positive for contaminants.

This produced water release happened during water transfer activities as a third-party contractor to the drilling/fracking companies was providing water for the tasks being performed on the pad surface. The contractor remediated the area but at that time, communication to Devon and/or documentation of the remediation was inadvertently overlooked. Devon will propose to collect samples to investigate whether contamination still exists in this area of concern, and remediate any contamination found.

### **Proposed Remediation/Sampling Activities**

On behalf of Devon, Pima proposes the following method for delineation sampling and remediation of this release area:

- The new, correct area of concern measures approximately 3,629 square feet on the east edge of the pad. During the release in January of 2023, this area was bermed on all sides to keep the released fluids from affecting any more soil than necessary.
- We propose to collect discrete samples from within and around the edges of this release area to evaluate the presence of contaminants. Fifty (50) samples will be collected from 10 different sample points within the release area from depths of surface, 1', 2', 3', and 4' bgs. Thirty (30) samples will be collected from 6 different sample points around the edges of the release area from depths of surface, 1', 2', 3', and 4' bgs. All samples will be put on ice, prepared for delivery, then delivered to Envirotech Analytical Laboratories where they will be analyzed for all the constituents listed in Table 1 19.15.29.12 NMAC.
- A 48-hour sampling notification will be issued to the NMOCD for this delineation sampling event. A variance request is included below for permission to use the delineation samples as confirmations samples depending on the sample results of the soil. A Proposed Sampling Map can be found in Figure 8.
- If any samples do not verify delineation, then the "step-out" method will be used for horizontal delineation samples until sample results can confirm delineation. Also, for vertical delineation samples, any samples not verifying delineation will be advanced deeper until sample results can confirm delineation.
- Sample results that are over the regulatory limits of the less than 50-foot to groundwater section of Table 1 will be measured for total area and affected volume then removed via mechanical excavation means. The contaminated soil will be hauled to an NMOCD-approved disposal facility and clean, like material will be brought to the site for backfilling the excavated area.
- Once all sample results confirm delineation is complete, and contamination isn't present or has been removed, a remediation closure report will be drafted and submitted to the NMOCD Pay Portal for review/approval.

### **Variance Request**

Devon would like to respectfully request to use the delineation samples as confirmation samples in the event the laboratory samples results confirm that no contamination is present in this area of concern. Devon would also request that representative delineation sampling of 400 square foot per sample point instead of 200 square foot per sample be approved. It is believed that these requests will still provide equal to or better protection of fresh water, public health, and the environment. Primarily because an attempt at remediation has already taken place, the release was adequately contained during the initial spill response, and buried pipelines have been installed since the release 2 years ago.

### **Approval Request**

Devon requests that this remediation work plan for the incident, nAPP2305244923, be approved. Devon has complied with the applicable requirements outlined in rules 19.15.29.12 and 19.15.29.13 NMAC. At such time that all soil is confirmed to be free of contaminants, Devon will prepare the seed bed and reseed the area with an approved seed mixture. A reclamation and revegetation report will be included with the final closure report and Devon will monitor the area of concern for proper vegetation growth.

Should you have any questions or need additional information, please feel free to contact:

Devon Energy – Jim Raley – [jim.rale@devon.com](mailto:jim.rale@devon.com) – 575-689-7597

Pima Environmental – Tom Bynum – [tom@pimaoil.com](mailto:tom@pimaoil.com) – 580-748-1613

### **Attachments**

#### **Figures:**

- 1- Location Map
- 2- Topographic Map
- 3- Karst Map
- 4- Data Tables
- 5- Corrected Site Map
- 6- Water Analysis Report
- 7- Water Source Location Map
- 8- Proposed Sampling Map



**Appendices:**

- Appendix A – Referenced Water Surveys & Water-Related Maps
- Appendix B – Soil Survey & Geological Data
- Appendix C – Corrected C-141 Form & NMOCD Correspondence
- Appendix D – Photographic Documentation
- Appendix E – Laboratory Reports



**Figures:**

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# Mule 23-11 Fed Com #822H

Devon Energy  
API #30-015-49388  
Eddy County, NM  
nAPP2305244923  
Location Map

## Legend

△ Point of Release - Mule 23-11 Fed Com 822H

Point of Release - Mule 23-11 Fed Com 822H △

Google Earth

10 mi





# Mule 23-11 Fed Com #822H

Devon Energy  
API #30-015-49388  
Eddy County, NM  
nAPP2305244923  
Topographic Map

## Legend

△ Point of Release - Mule 23-11 Fed Com 822H

Point of Release - Mule 23-11 Fed Com 822H △



4000 ft




Google Earth



## Mule 23-11 Fed Com #822H

Devon Energy  
API #30-015-49388  
Eddy County, NM  
nAPP2305244923  
Karst Map

### Legend

-  High Karst
-  Low Karst
-  Medium Karst

Point of Release - Mule 23-11 Fed Com 822H 

Google Earth



1 mi

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50')									
DEVON ENERGY - MULE 23-11 FED COM 822H - nAPP2305244923									
NM Approved Laboratory Results									
Sample ID	Date	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	CI mg/kg
S1-Surface	6/8/2024	0'	ND	ND	ND	ND	ND	0	ND
S1-1'	5/24/2023	1'	ND	ND	ND	ND	ND	0	ND
S1-2'	5/24/2023	2'	ND	ND	ND	ND	ND	0	ND
S1-3'	5/24/2023	3'	ND	ND	ND	ND	ND	0	ND
S1-4'	5/24/2023	4'	ND	ND	ND	ND	ND	0	ND
S2-Surface	6/8/2024	0'	ND	ND	ND	ND	ND	0	ND
S2-1'	6/8/2024	1'	ND	ND	ND	ND	ND	0	ND
S2-2'	6/8/2024	2'	ND	ND	ND	ND	ND	0	ND
S2-3'	6/8/2024	3'	ND	ND	ND	ND	ND	0	ND
S2-4'	6/8/2024	4'	ND	ND	ND	ND	ND	0	ND
S3-Surface	6/8/2024	0'	ND	ND	ND	ND	ND	0	74.4
S3-1'	5/24/2023	1'	ND	ND	ND	ND	ND	0	ND
S3-2'	5/24/2023	2'	ND	ND	ND	ND	ND	0	ND
S3-3'	5/24/2023	3'	ND	ND	ND	ND	ND	0	ND
S3-4'	5/24/2023	4'	ND	ND	ND	ND	ND	0	ND
S4-Surface	6/8/2024	0'	ND	ND	ND	ND	ND	0	ND
S4-1'	5/24/2023	1'	ND	ND	ND	ND	ND	0	ND
S4-2'	5/24/2023	2'	ND	ND	ND	ND	ND	0	ND
S4-3'	5/24/2023	3'	ND	ND	ND	ND	ND	0	ND
S4-4'	5/24/2023	4'	ND	ND	ND	ND	ND	0	ND
S5-Surface	6/8/2024	0'	ND	ND	ND	ND	ND	0	ND
S5-1'	5/24/2023	1'	ND	ND	ND	ND	ND	0	ND
S5-2'	5/24/2023	2'	ND	ND	ND	ND	ND	0	ND
S5-3'	5/24/2023	3'	ND	ND	ND	ND	ND	0	ND
S5-4'	5/24/2023	4'	ND	ND	ND	ND	ND	0	ND
S6-Surface	6/8/2024	0'	ND	ND	ND	ND	ND	0	ND
S6-1'	6/8/2024	1'	ND	ND	ND	ND	ND	0	ND
S6-2'	6/8/2024	2'	ND	ND	ND	ND	ND	0	ND
S6-3'	6/8/2024	3'	ND	ND	ND	ND	ND	0	ND
S6-4'	6/8/2024	4'	ND	ND	ND	ND	ND	0	ND
S7-Surface	6/8/2024	0'	ND	ND	ND	ND	ND	0	ND
S7-1'	5/24/2023	1'	ND	ND	ND	ND	ND	0	ND
S7-2'	5/24/2023	2'	ND	ND	ND	ND	ND	0	ND
S7-3'	5/24/2023	3'	ND	ND	ND	ND	ND	0	ND
S7-4'	5/24/2023	4'	ND	ND	ND	ND	ND	0	ND
S8-Surface	6/8/2024	0'	ND	ND	ND	ND	ND	0	ND
S8-1'	5/24/2023	1'	ND	ND	ND	ND	ND	0	ND
S8-2'	5/24/2023	2'	ND	ND	ND	ND	ND	0	ND
S8-3'	5/24/2023	3'	ND	ND	ND	ND	ND	0	ND
S8-4'	5/24/2023	4'	ND	ND	ND	ND	ND	0	ND



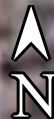
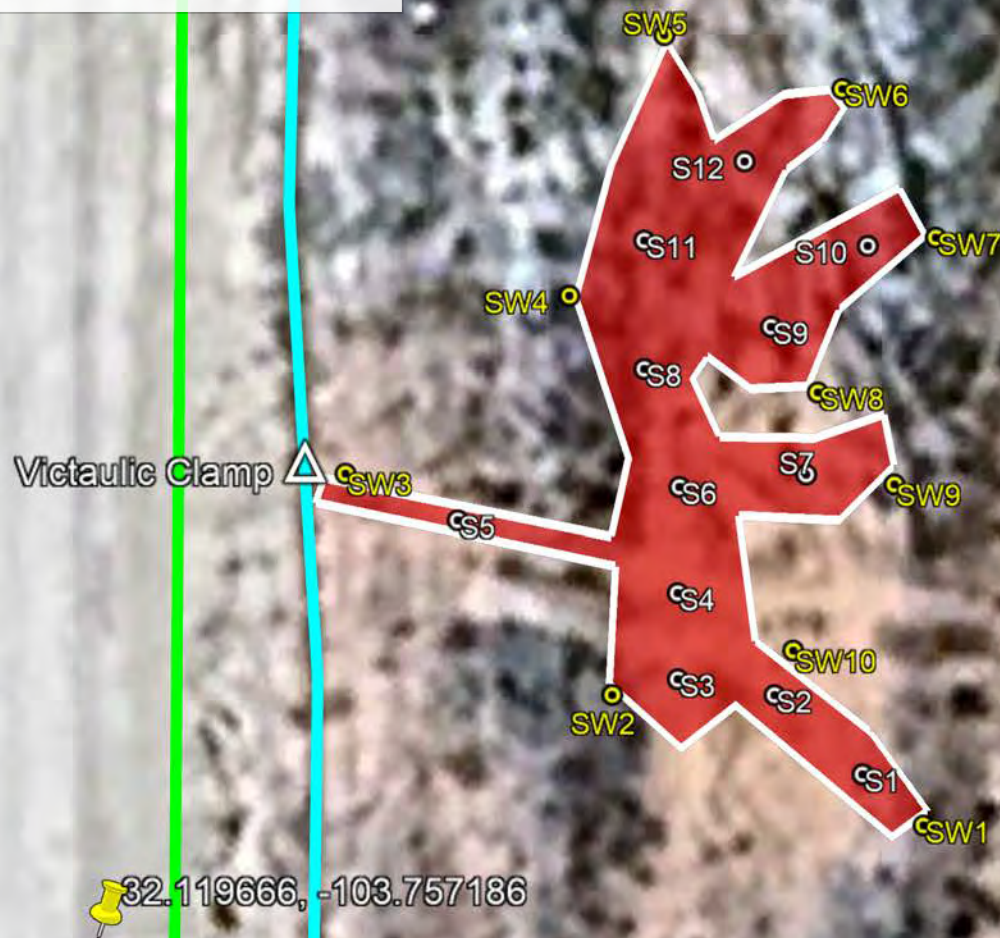
Sample ID	Date	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	CI mg/kg
S9-Surface	6/8/2024	0'	ND	ND	ND	ND	ND	0	ND
S9-1'	5/24/2023	1'	ND	ND	ND	ND	ND	0	ND
S9-2'	5/24/2023	2'	ND	ND	ND	ND	ND	0	ND
S9-3'	5/24/2023	3'	ND	ND	ND	ND	ND	0	ND
S9-4'	5/24/2023	4'	ND	ND	ND	ND	ND	0	ND
S10-Surface	6/8/2024	0'	ND	ND	ND	ND	ND	0	ND
S10-1'	6/8/2024	1'	ND	ND	ND	ND	ND	0	ND
S10-2'	6/8/2024	2'	ND	ND	ND	ND	ND	0	ND
S10-3'	6/8/2024	3'	ND	ND	ND	ND	ND	0	ND
S10-4'	6/8/2024	4'	ND	ND	ND	ND	ND	0	ND
S11-Surface	6/8/2024	0'	ND	ND	ND	ND	ND	0	ND
S11-1'	6/8/2024	1'	ND	ND	ND	ND	ND	0	ND
S11-2'	6/8/2024	2'	ND	ND	ND	ND	ND	0	ND
S11-3'	6/8/2024	3'	ND	ND	ND	ND	ND	0	ND
S11-4'	6/8/2024	4'	ND	ND	ND	ND	ND	0	ND
S12-Surface	6/8/2024	0'	ND	ND	ND	ND	ND	0	ND
S12-1'	5/24/2023	1'	ND	ND	ND	ND	ND	0	ND
S12-2'	5/24/2023	2'	ND	ND	ND	ND	ND	0	ND
S12-3'	5/24/2023	3'	ND	ND	ND	ND	ND	0	ND
S12-4'	5/24/2023	4'	ND	ND	ND	ND	ND	0	ND
SW 1	5/24/2023	0-4' Comp	ND	ND	ND	ND	ND	0	ND
SW 2	5/24/2023	0-4' Comp	ND	ND	ND	ND	ND	0	ND
SW 3	5/24/2023	0-4' Comp	ND	ND	ND	ND	ND	0	ND
SW 4	5/24/2023	0-4' Comp	ND	ND	ND	ND	ND	0	ND
SW 5	5/24/2023	0-4' Comp	ND	ND	ND	ND	ND	0	ND
SW 6	5/24/2023	0-4' Comp	ND	ND	ND	ND	ND	0	ND
SW 7	5/24/2023	0-4' Comp	ND	ND	ND	ND	ND	0	ND
SW 8	5/24/2023	0-4' Comp	ND	ND	ND	ND	ND	0	ND
SW 9	5/24/2023	0-4' Comp	ND	ND	ND	ND	ND	0	ND
SW10	5/24/2023	0-4' Comp	ND	ND	ND	ND	ND	0	ND
BG1	6/8/2024	1'	ND	ND	ND	ND	ND	0	ND

# Mule 23-11 Fed Com 822H

Devon Energy  
API #30-015-49388  
Eddy County, NM  
nAPP2305244923  
Corrected Site Map

## Legend

- Background sample
- Horizontal delineation samples
- Layflat Hose
- Lease road
- New Underground pipelines
- Release area - 1,306 sqft
- Vertical delineation samples



60 ft

Google Earth





# Water Analysis Report

## SYSTEM IDENTIFICATION

2405-021 Devon Energy  
Cotton Draw 22 Water Treatment Facility  
Permian  
Received on 5/30/2024

Sample ID#: 0  
ID: 1.00

Sample Date: 05-30-2024 at 1200  
Report Date: 05-30-2024

## WATER CHEMISTRY

### CATIONS

Calcium(as Ca)	5743
Magnesium(as Mg)	691.95
Barium(as Ba)	5.97
Strontium(as Sr)	871.51
Sodium(as Na)	41303
Potassium(as K)	771.32
Lithium(as Li)	24.94
Iron(as Fe)	1.01
Aluminum(as Al)	0.190
Manganese(as Mn)	1.01
Zinc(as Zn)	2.47

### ANIONS

Chloride(as Cl)	76874
Sulfate(as SO <sub>4</sub> )	646.18
Dissolved CO <sub>2</sub> (as CO <sub>2</sub> )	44.44
Bicarbonate(as HCO <sub>3</sub> )	237.09
Carbonate(as CO <sub>3</sub> )	0.00
Silica(as SiO <sub>2</sub> )	20.18
Phosphate(as PO <sub>4</sub> )	0.00
Boron(as B)	103.06

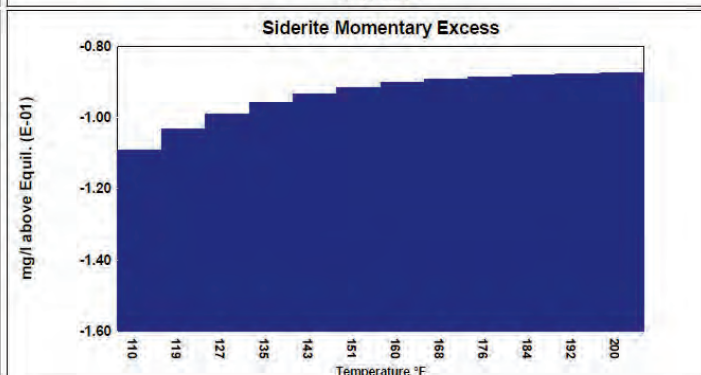
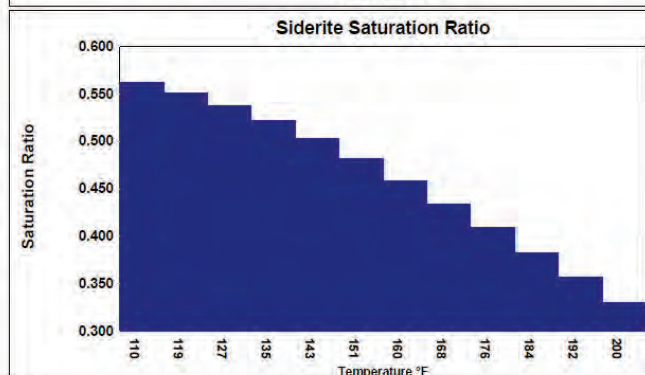
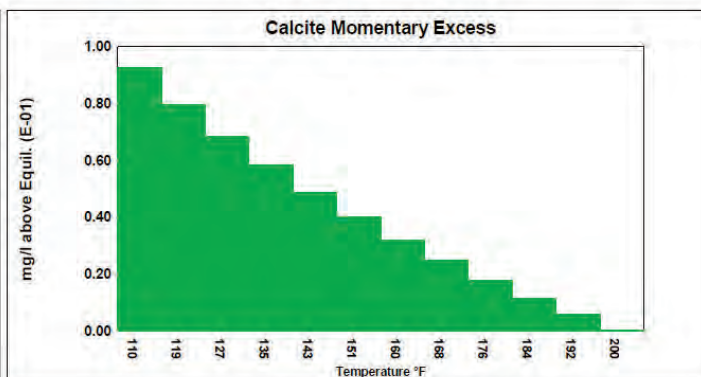
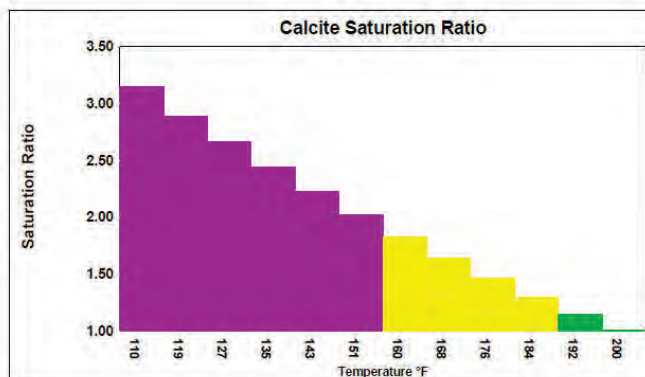
### PARAMETERS

Temperature(°F)	77.00	Sample pH	6.81
Conductivity	198843	Sp.Gr.(g/mL)	1.08
Resistivity	5.03	T.D.S.	134808

## SCALE AND CORROSION POTENTIAL

Temp. (°F)	Press. (psia)	Calcite CaCO <sub>3</sub>		Anhydrite CaSO <sub>4</sub>		Gypsum CaSO <sub>4</sub> *2H <sub>2</sub> O		Barite BaSO <sub>4</sub>		Celestite SrSO <sub>4</sub>		Siderite FeCO <sub>3</sub>		Mackawenite FeS		CO <sub>2</sub> (mpy)	pCO <sub>2</sub> (psia)
110.00	14.70	3.15	0.0925	0.365	-535.85	0.429	-466.93	7.39	9.45	1.67	151.73	0.562	-0.109	0.00	-1.66	0.0831	0.349
119.00	160.20	2.89	0.0794	0.378	-494.55	0.439	-437.17	6.04	9.11	1.62	141.56	0.551	-0.103	0.00	-1.82	0.259	3.80
127.10	291.18	2.66	0.0684	0.394	-451.47	0.447	-413.74	5.06	8.76	1.58	132.57	0.538	-0.0991	0.00	-1.99	0.294	6.91
135.20	422.16	2.44	0.0583	0.416	-404.59	0.454	-393.19	4.26	8.34	1.54	123.71	0.521	-0.0959	0.00	-2.17	0.0667	10.01
143.30	553.14	2.23	0.0489	0.443	-355.52	0.461	-375.29	3.59	7.85	1.50	114.93	0.503	-0.0935	0.00	-2.36	0.130	13.12
151.40	684.12	2.02	0.0402	0.477	-305.65	0.467	-359.81	3.04	7.29	1.46	106.17	0.481	-0.0917	0.00	-2.56	0.203	16.22
159.50	815.10	1.82	0.0322	0.517	-256.19	0.472	-346.59	2.57	6.64	1.42	97.40	0.459	-0.0903	0.00	-2.78	0.278	19.33
167.60	946.08	1.64	0.0247	0.565	-208.10	0.476	-335.48	2.19	5.89	1.37	88.56	0.434	-0.0893	0.00	-3.02	0.352	22.44
175.70	1077.06	1.46	0.0179	0.622	-162.12	0.479	-326.36	1.87	5.02	1.33	79.59	0.409	-0.0886	0.00	-3.28	0.424	25.54
183.80	1208.04	1.30	0.0117	0.689	-118.80	0.481	-319.18	1.59	4.02	1.29	70.45	0.383	-0.0881	0.00	-3.55	0.330	28.65
191.90	1339.02	1.15	0.00590	0.768	-78.49	0.482	-313.83	1.36	2.87	1.25	61.08	0.357	-0.0877	0.00	-3.85	0.209	31.76
200.00	1470.00	1.01	< 0.001	0.862	-41.41	0.482	-310.27	1.17	1.55	1.20	51.39	0.331	-0.0875	0.00	-4.17	0.210	34.86
		xSAT	mg/L	xSAT	mg/L	xSAT	mg/L	xSAT	mg/L	xSAT	mg/L	xSAT	mg/L	xSAT	mg/L		

Saturation Ratios (xSAT) are the ratio of ion activity to solubility, e.g. {Ca}{CO<sub>3</sub>}/K<sub>sp</sub>. pCO<sub>2</sub> (psia) is the partial pressure of CO<sub>2</sub> in the gas phase.  
mg/L scale is the quantity of precipitation (or dissolution) required to instantaneously bring the water to equilibrium.









# Mule 23-11 Fed Com #822H

Devon Energy  
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Eddy County, NM  
nAPP2305244923  
Water Source Location Map

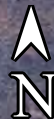
## Legend

-  Cotton Draw 22 Water Treatment Facility
-  Point of Release - Mule 23-11 Fed Com 822H

Point of Release - Mule 23-11 Fed Com 822H 

 Cotton Draw 22 Water Treatment Facility

Google Earth








3000 ft



# Mule 23-11 Federal Com #822H

Devon Energy  
API #30-015-49388  
Eddy County, NM  
nAPP2305244923  
Proposed Sampling Map

## Legend

-  32.1204928, -103.74948743 (POR)
-  Background samples
-  Horizontal delineation samples
-  Release area - 3,629 sqft
-  Vertical delineation samples



Google Earth





## **Appendix A**

Water Surveys

Water-Related Maps





# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

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

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

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

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

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tw	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
<a href="#">C 04619 POD1</a>		CUB	ED	2	1	2	27	25S	31E	616750	3552958	1500	55		
<a href="#">C 02250</a>		CUB	ED	3	1	4	21	25S	31E	614912	3553620*	2449	400	390	10

Average Depth to Water: **390 feet**

Minimum Depth: **390 feet**

Maximum Depth: **390 feet**

**Record Count:** 2

**UTM NAD83 Radius Search (in meters):**

**Easting (X):** 617242.6

**Northing (Y):** 3554375.45

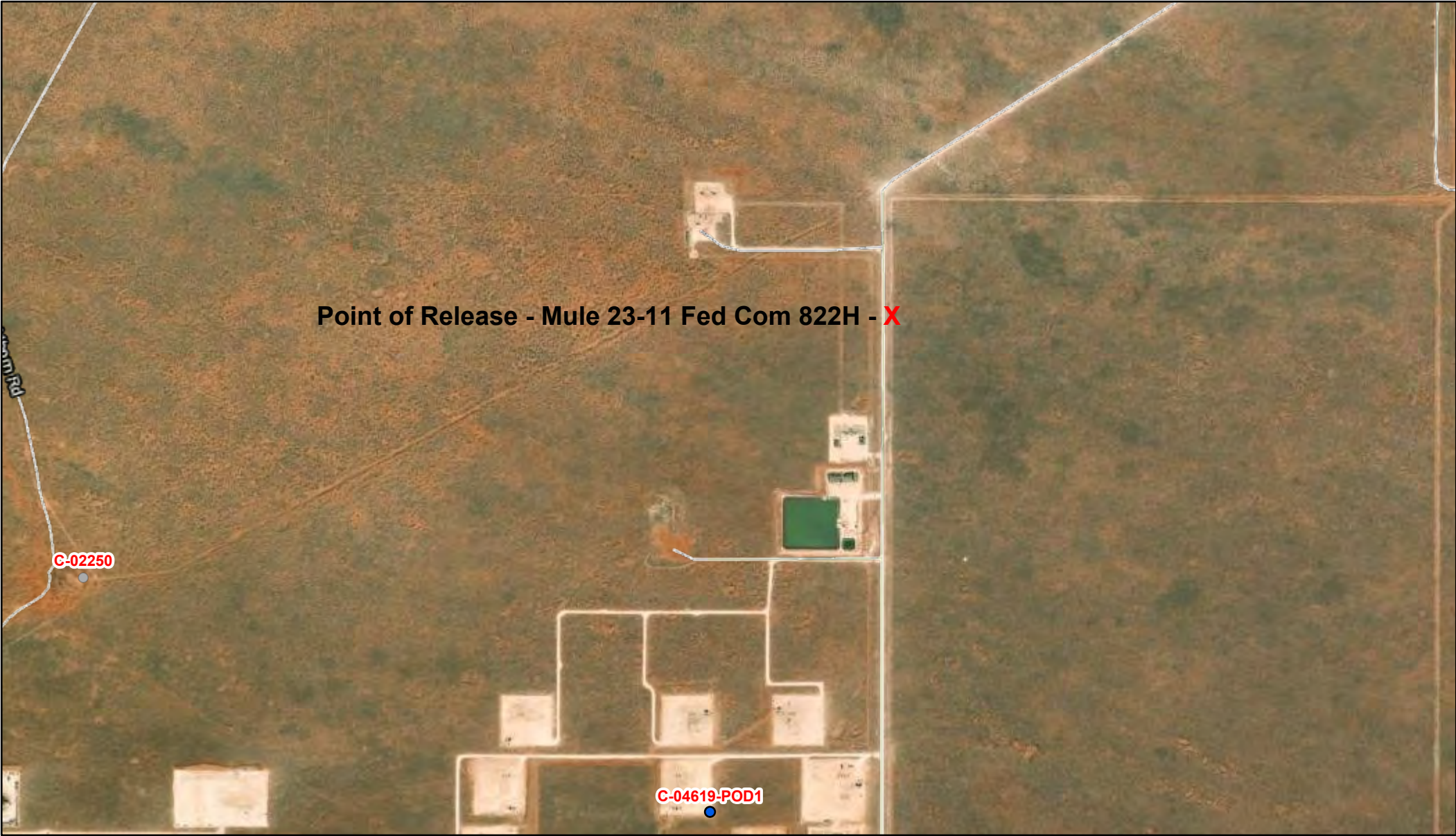
**Radius:** 3000

\*UTM location was derived from PLSS - see Help

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

6/19/24 1:44 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER



6/19/2024, 2:40:47 PM

GIS WATERS PODs

● Active

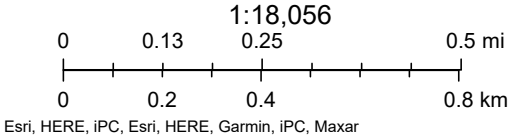


OSE District Boundary

Water Right Regulations



Artesian Planning Area





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

## National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater

Geographic Area:

United States

GO

Click to hide News Bulletins

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

Groundwater levels for the Nation

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

### 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.

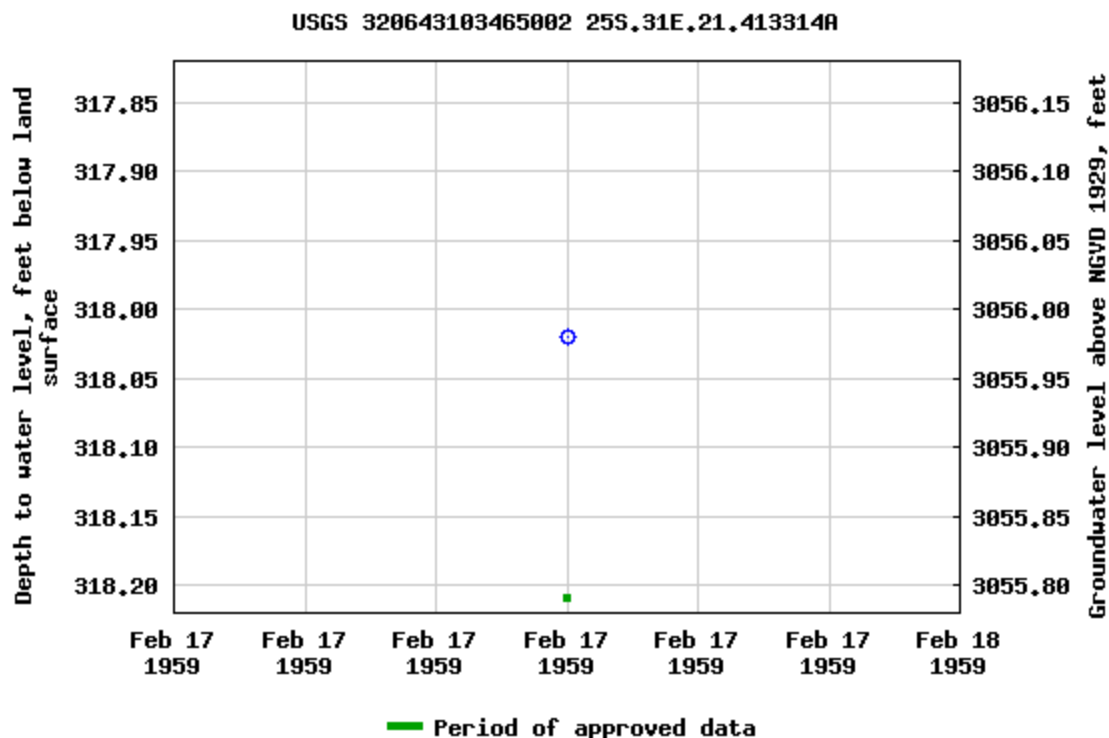
#### Output formats

[Table of data](#)

[Tab-separated data](#)

[Graph of data](#)

[Reselect period](#)



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

[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: [USGS Water Data Support Team](#)

Page Last Modified: 2024-07-31 13:04:58 EDT

0.52 0.45 nadww01





## National Water Information System: Mapper





# Mule 23-11 Fed Com #822H

Devon Energy  
API #30-015-49388  
Eddy County, NM  
nAPP2305244923  
Surface Water Map

## Legend

- 13.2 Miles
- Pecos River

Pecos River

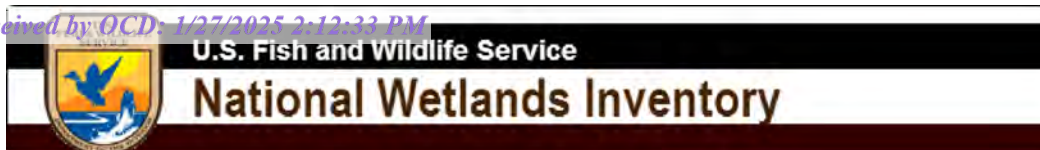
Point of Release - Mule 23-11 Fed Com 822H



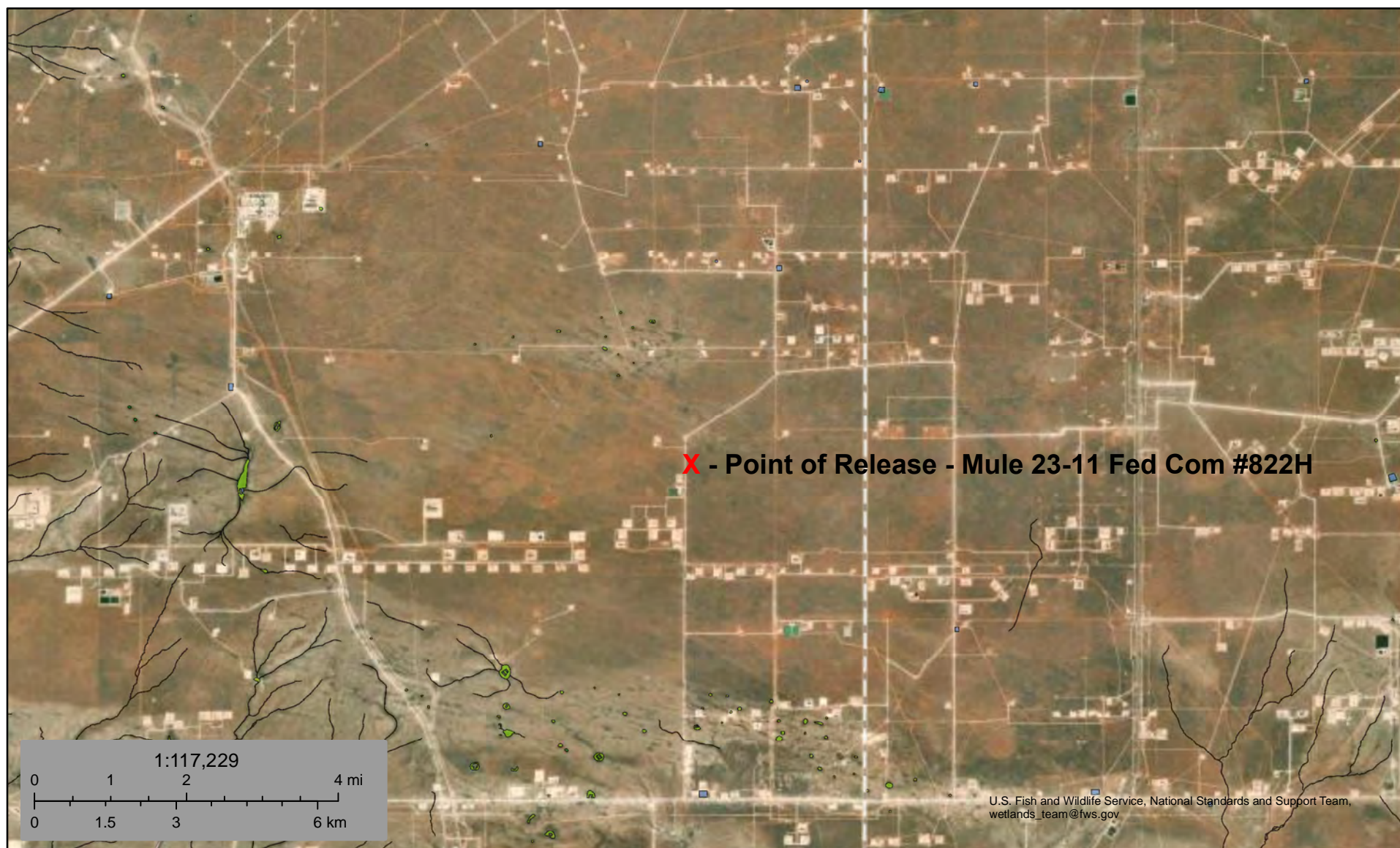
6 mi

Google Earth





## Wetlands Map



May 26, 2023

**Wetlands**

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

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

- Lake
- Other
- Riverine

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



# National Flood Hazard Layer FIRMette



103°45'44"W 32°7'27"N



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

1:6,000

103°45'7"W 32°6'56"N

Released to Imaging: 2/21/2025 11:36:12 AM

Basemap Imagery Source: USGS National Map 2023

## Legend

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

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



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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 6/19/2024 at 3:53 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.



## **Appendix B**

Soil Survey

Soil Map

Geologic Unit Map

Map Unit Description: Berino complex, 0 to 3 percent slopes, eroded---Eddy Area, New Mexico

---

## Eddy Area, New Mexico

### BB—Berino complex, 0 to 3 percent slopes, eroded

#### Map Unit Setting

*National map unit symbol:* 1w43

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

*Mean annual precipitation:* 5 to 15 inches

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

*Frost-free period:* 180 to 260 days

*Farmland classification:* Not prime farmland

#### Map Unit Composition

*Berino and similar soils:* 60 percent

*Pajarito and similar soils:* 25 percent

*Minor components:* 15 percent

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

#### Description of Berino

##### Setting

*Landform:* Plains, fan piedmonts

*Landform position (three-dimensional):* Riser

*Down-slope shape:* Convex

*Across-slope shape:* Linear

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

##### Typical profile

*H1 - 0 to 17 inches:* fine sand

*H2 - 17 to 58 inches:* sandy clay loam

*H3 - 58 to 60 inches:* loamy sand

##### Properties and qualities

*Slope:* 0 to 3 percent

*Depth to restrictive feature:* More than 80 inches

*Drainage class:* Well drained

*Runoff class:* Low

*Capacity of the most limiting layer to transmit water*

*(Ksat):* Moderately high to high (0.60 to 2.00 in/hr)

*Depth to water table:* More than 80 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Calcium carbonate, maximum content:* 40 percent

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

*Sodium adsorption ratio, maximum:* 1.0

*Available water supply, 0 to 60 inches:* Moderate (about 8.0 inches)

##### Interpretive groups

*Land capability classification (irrigated):* None specified

Map Unit Description: Berino complex, 0 to 3 percent slopes, eroded---Eddy Area, New Mexico

---

*Land capability classification (nonirrigated): 7e*  
*Hydrologic Soil Group: B*  
*Ecological site: R070BD003NM - Loamy Sand*  
*Hydric soil rating: No*

### Description of Pajarito

#### Setting

*Landform: Dunes, plains, interdunes*  
*Landform position (three-dimensional): Side slope*  
*Down-slope shape: Convex, linear*  
*Across-slope shape: Convex, linear*  
*Parent material: Mixed alluvium and/or eolian sands*

#### Typical profile

*H1 - 0 to 9 inches: loamy fine sand*  
*H2 - 9 to 72 inches: fine sandy loam*

#### Properties and qualities

*Slope: 0 to 3 percent*  
*Depth to restrictive feature: More than 80 inches*  
*Drainage class: Well drained*  
*Runoff class: Very low*  
*Capacity of the most limiting layer to transmit water (Ksat): High*  
*(2.00 to 6.00 in/hr)*  
*Depth to water table: More than 80 inches*  
*Frequency of flooding: None*  
*Frequency of ponding: None*  
*Calcium carbonate, maximum content: 40 percent*  
*Maximum salinity: Nonsaline (0.0 to 1.0 mmhos/cm)*  
*Sodium adsorption ratio, maximum: 1.0*  
*Available water supply, 0 to 60 inches: Moderate (about 8.0 inches)*

#### Interpretive groups

*Land capability classification (irrigated): 2e*  
*Land capability classification (nonirrigated): 7e*  
*Hydrologic Soil Group: A*  
*Ecological site: R070BD003NM - Loamy Sand*  
*Hydric soil rating: No*

### Minor Components

#### Wink

*Percent of map unit: 4 percent*  
*Ecological site: R070BD003NM - Loamy Sand*  
*Hydric soil rating: No*

#### Cacique

*Percent of map unit: 4 percent*  
*Ecological site: R070BD004NM - Sandy*  
*Hydric soil rating: No*

#### Pajarito

*Percent of map unit: 4 percent*

Map Unit Description: Berino complex, 0 to 3 percent slopes, eroded---Eddy Area, New Mexico

---

*Ecological site:* R070BD003NM - Loamy Sand

*Hydric soil rating:* No

**Kermi**

*Percent of map unit:* 3 percent

*Ecological site:* R070BD005NM - Deep Sand

*Hydric soil rating:* No

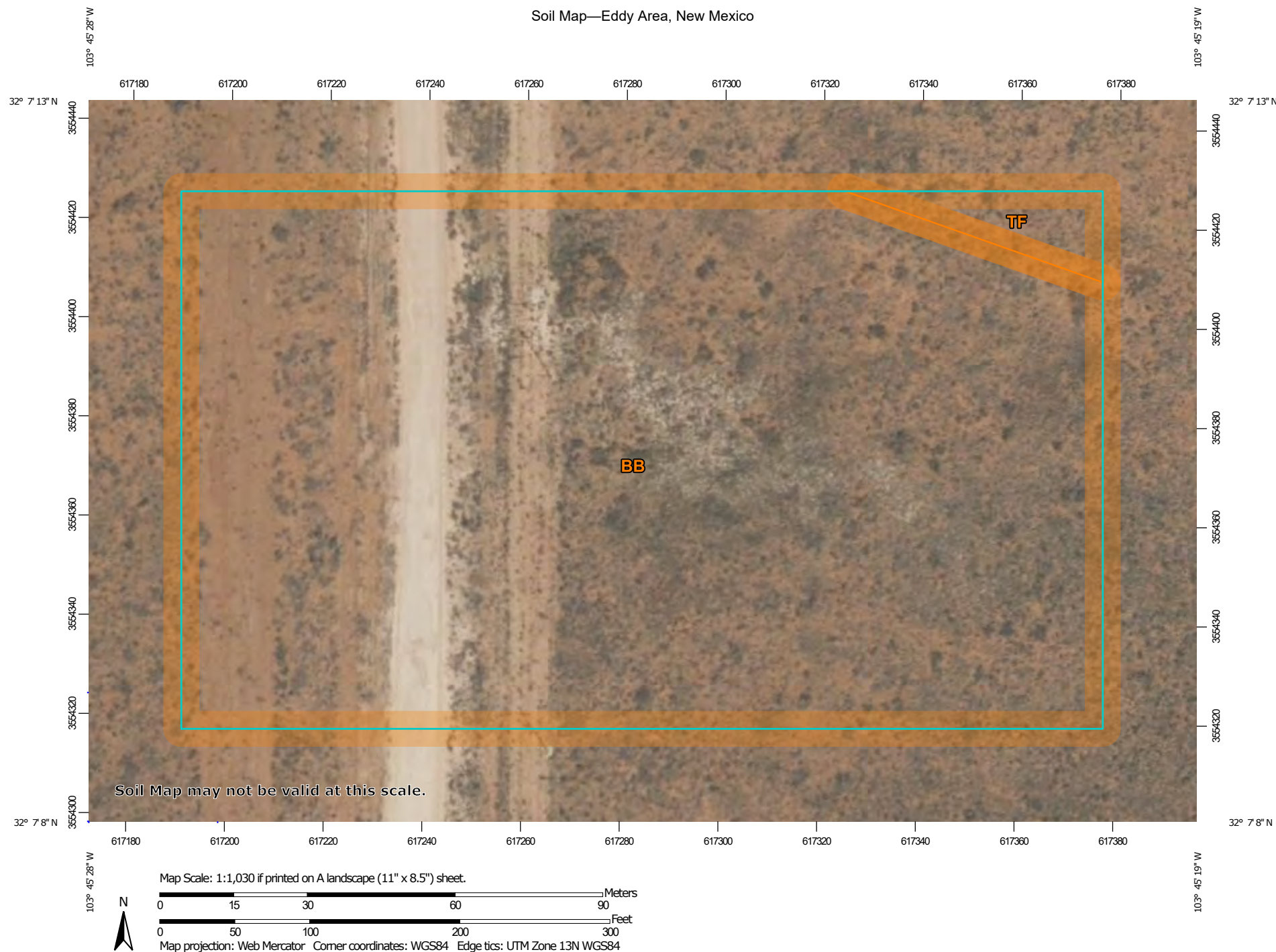
## Data Source Information

Soil Survey Area: Eddy Area, New Mexico

Survey Area Data: Version 19, Sep 7, 2023



# Soil Map—Eddy Area, New Mexico



Natural Resources  
Conservation Service

Web Soil Survey  
National Cooperative Soil Survey

6/19/2024  
Page 1 of 3

## Soil Map—Eddy Area, New Mexico

## MAP LEGEND

## Area of Interest (AOI)

 Area of Interest (AOI)

## Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

## Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

## Water Features



Streams and Canals

## Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

## Background



Aerial Photography

## MAP INFORMATION

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

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

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

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

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

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

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

Soil Survey Area: Eddy Area, New Mexico

Survey Area Data: Version 19, Sep 7, 2023

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

Date(s) aerial images were photographed: 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
BB	Berino complex, 0 to 3 percent slopes, eroded	4.9	97.6%
TF	Tonuco loamy fine sand, 0 to 3 percent slopes	0.1	2.4%
Totals for Area of Interest		5.0	100.0%




# Mule 23-11 Fed Com #822H

Devon Energy  
API #30-015-49388  
Eddy County, NM  
nAPP2305244923  
Geologic Unit Map

## Legend

-  Eolian and piedmont deposits
-  Older alluvial deposits of upland plains, piedmont areas.....

Point of Release - Mule 23-11 Fed Com 822H 

Google Earth

2 mi





## **Appendix C**

Corrected C-141 Form  
NMOCD Correspondence



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

State of New Mexico  
Energy Minerals and Natural  
Resources Department

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

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

Incident ID	NAPP2305244923
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

Responsible Party Devon Energy Production Co.	OGRID 6137
Contact Name Wesley Mathews	Contact Telephone 575-748-2663
Contact email wesley.mathews@dvn.com	Incident # (assigned by OCD)
Contact mailing address 6488 Seven Rivers HWY, Artesia, NM, 88210	

### Location of Release Source

Latitude 32.119956 Longitude -103.750099  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Mule 23-11 fed com 822H	Site Type Production
Date Release Discovered 01/15/2023	API (if applicable) 30-015-49388

Unit Letter	Section	Township	Range	County
C	23	25-S	31-E	Eddy

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

### Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 25	Volume Recovered (bbls) 15
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

#### Cause of Release

The release was caused by the failure of a vitriolic fitting on a lay flat hose

Incident ID	NAPP2305244923
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?  <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?  The release was 25 BBL
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?  OCD an BLM via email by Jim Raley	

## Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:  	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Wesley Mathews</u>	Title: <u>EHS Professional</u>
Signature: <u>Wesley Mathews</u>	Date: <u>1/15/2023</u>
email: <u>wesley.mathews@dvn.com</u>	Telephone: <u>575-748-2663</u>
<b><u>OCD Only</u></b>	
Received by: <u>Jocelyn Harimon</u>	Date: <u>02/21/2023</u>



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

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

CONDITIONS

Action 188715

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 188715
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141	2/22/2023

OCD Permitting

Home    Operator Data    Action Status    Action Search Results    Action Status Item Details

[C-141] Release Corrective Action (C-141) Application

Submission Information

Submission ID:	239946	Districts:	Artesia
Operator:	[6137] DEVON ENERGY PRODUCTION COMPANY, LP	Counties:	Eddy
Description:	DEVON ENERGY PRODUCTION COMPANY, LP [6137] , MULE 23-11 FED COM 822H , nAPP2305244923		
Status:	REJECTED		
Status Date:	01/03/2024		
References (2):	30-015-49388, nAPP2305244923		

Forms

Attachments:    [C-141](#)  
                          [Scaled Site Map](#)

Questions

This submission type does not have questions, at this time.



Comments

No comments found for this submission.

Conditions

No conditions found for this submission.

Reasons

Summary:

*ramlet (1/3/2024)*, The Remediation Closure Report is Denied. Please make sure sample points are labelled on the sitemap. Additionally, please include sidewall samples to show that the release is horizontally delineated. On the C-141 form where it says, “Is the concentration of dissolved chloride in the produced water >10,000 mg/l? If the “No” box is checked, the OCD will need a water sample taken from the water source. Please provide these results in the resubmission.

Go Back

OCD Permitting

Home    Operator Data    Action Status    Action Search Results    Action Status Item Details

[C-141] Remediation Closure Request C-141 (C-141-V-CLOSURE) Application

Submission Information

Submission ID:	357039	Districts:	Artesia
Operator:	[6137] DEVON ENERGY PRODUCTION COMPANY, LP	Counties:	Eddy
Description:	DEVON ENERGY PRODUCTION COMPANY, LP [6137] , MULE 23-11 FED COM 822H , nAPP2305244923		
Status:	REJECTED		
Status Date:	07/16/2024		
References (2):	30-015-49388, nAPP2305244923		

Forms

Attachments:    [Volume Calculation](#)

[Water Sources](#), [Scaled Site Map](#), [Field Data](#), [Soil Contaminant](#), [Water Depth](#), [Boring Logs](#), [Photographs](#), [Topo Aerial Maps](#), [Lab Data](#), [Proposed Technique](#), [Estimated Volume](#), [Closure Criteria](#), [Proposed Schedule](#), [Lab Samples OR Liner Integrity](#), [Remediation Activities](#)

Questions

Prerequisites



Location of Release Source

Please answer all the questions in this group.

Site Name	MULE 23-11 FED COM 822H
Date Release Discovered	01/15/2023
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   Coupling   Produced Water   Released: 25 BBL   Recovered: 16 BBL   Lost: 9 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
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.

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. gas only) are to be submitted on the C-129 form.

Initial Response

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

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

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

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

I hereby agree and sign off to the above statement	Name: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dvn.com Date: 06/24/2024
--	--

Site Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 26 and 50 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search



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	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

#### 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)	74.4
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	0
GRO+DRO	(EPA SW-846 Method 8015M)	0
BTEX	(EPA SW-846 Method 8021B or 8260B)	0
Benzene	(EPA SW-846 Method 8021B or 8260B)	0

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

On what estimated date will the remediation commence	05/24/2023
On what date will (or did) the final sampling or liner inspection occur	06/08/2024
On what date will (or was) the remediation complete(d)	06/08/2024
What is the estimated surface area (in square feet) that will be reclaimed	0

then it should consult with the division to determine if another remediation plan submission is required.

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	analytical results were below OCD limits

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.

I hereby agree and sign off to the above statement	Name: Dale Woodall
	Title: EHS Professional
	Email: Dale.Woodall@dvn.com
	Date: 06/24/2024

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.

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.

Last sampling notification (C-141N) recorded	357062
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	06/08/2024
What was the (estimated) number of samples that were to be gathered	29
What was the sampling surface area in square feet	1300

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)	analytical results were below OCD limits

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

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

I hereby agree and sign off to the above statement	Name: Dale Woodall Title: EHS Professional
--	---



Searches    Operator Data    Hearing Fee Application

Requesting a reclamation approval with this submission    No

Acknowledgments

This submission type does not have acknowledgments, at this time.

Comments

No comments found for this submission.

Conditions

No conditions found for this submission.

Reasons

Summary:    rhamlet (7/16/2024). On the C-141 form where it says, "Is the concentration of dissolved chloride in the produced water >10,000 mg/l? If the "No" box is checked, the OCD will need a water sample taken from the water source. Please provide these results in the resubmission.

Go Back

[SIGN-IN](#)   [HELP](#)

[Searches](#)

[Operator Data](#)

[Hearing Fee Application](#)

---



## **Appendix D**

### Photographic Documentation



**Assessment 2023**



**West side looking east**



**South side looking north**



**Further south looking north**



**Southeast side looking northwest**



**North side looking south**



**Northwest side looking southeast**



**Assessment 2024**



**North side looking south**



**South side looking north**



**West side looking east**



**West side looking southeast**



2023



2025







## **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: Mule 23-11 Fed Com 822H

Work Order: E305176

Job Number: 01058-0007

Received: 5/26/2023

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
6/1/23

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: 6/1/23

Tom Bynum  
PO Box 247  
Plains, TX 79355-0247



Project Name: Mule 23-11 Fed Com 822H  
Workorder: E305176  
Date Received: 5/26/2023 8:30:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/26/2023 8:30:00AM, under the Project Name: Mule 23-11 Fed Com 822H.

The analytical test results summarized in this report with the Project Name: Mule 23-11 Fed Com 822H apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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

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

Field Offices:

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

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

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



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## Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	Mule 23-11 Fed Com 822H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	06/01/23 13:00

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S1 - 1'	E305176-01A	Soil	05/24/23	05/26/23	Glass Jar, 2 oz.
S1 - 2'	E305176-02A	Soil	05/24/23	05/26/23	Glass Jar, 2 oz.
S1 - 3'	E305176-03A	Soil	05/24/23	05/26/23	Glass Jar, 2 oz.
S1 - 4'	E305176-04A	Soil	05/24/23	05/26/23	Glass Jar, 2 oz.
S3 - 1'	E305176-05A	Soil	05/24/23	05/26/23	Glass Jar, 2 oz.
S3 - 2'	E305176-06A	Soil	05/24/23	05/26/23	Glass Jar, 2 oz.
S3 - 3'	E305176-07A	Soil	05/24/23	05/26/23	Glass Jar, 2 oz.
S3 - 4'	E305176-08A	Soil	05/24/23	05/26/23	Glass Jar, 2 oz.
S4 - 1'	E305176-09A	Soil	05/24/23	05/26/23	Glass Jar, 2 oz.
S4 - 2'	E305176-10A	Soil	05/24/23	05/26/23	Glass Jar, 2 oz.
S4 - 3'	E305176-11A	Soil	05/24/23	05/26/23	Glass Jar, 2 oz.
S4 - 4'	E305176-12A	Soil	05/24/23	05/26/23	Glass Jar, 2 oz.
S5 - 1'	E305176-13A	Soil	05/24/23	05/26/23	Glass Jar, 2 oz.
S5 - 2'	E305176-14A	Soil	05/24/23	05/26/23	Glass Jar, 2 oz.
S5 - 3'	E305176-15A	Soil	05/24/23	05/26/23	Glass Jar, 2 oz.
S5 - 4'	E305176-16A	Soil	05/24/23	05/26/23	Glass Jar, 2 oz.
S7 - 1'	E305176-17A	Soil	05/24/23	05/26/23	Glass Jar, 2 oz.
S7 - 2'	E305176-18A	Soil	05/24/23	05/26/23	Glass Jar, 2 oz.
S7 - 3'	E305176-19A	Soil	05/24/23	05/26/23	Glass Jar, 2 oz.
S7 - 4'	E305176-20A	Soil	05/24/23	05/26/23	Glass Jar, 2 oz.





## Sample Data

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

Project Name: Mule 23-11 Fed Com 822H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
6/1/2023 1:00:55PM

S1 - 1'

E305176-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2321089
Benzene	ND	0.0250	1	05/26/23	05/27/23	
Ethylbenzene	ND	0.0250	1	05/26/23	05/27/23	
Toluene	ND	0.0250	1	05/26/23	05/27/23	
o-Xylene	ND	0.0250	1	05/26/23	05/27/23	
p,m-Xylene	ND	0.0500	1	05/26/23	05/27/23	
Total Xylenes	ND	0.0250	1	05/26/23	05/27/23	
Surrogate: 4-Bromochlorobenzene-PID	95.7 %	70-130		05/26/23	05/27/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2321089
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/23	05/27/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.6 %	70-130		05/26/23	05/27/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2322011
Diesel Range Organics (C10-C28)	ND	25.0	1	05/30/23	05/30/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/30/23	05/30/23	
Surrogate: n-Nonane	102 %	50-200		05/30/23	05/30/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2322004
Chloride	ND	20.0	1	05/30/23	05/31/23	



## Sample Data

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

Project Name: Mule 23-11 Fed Com 822H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
6/1/2023 1:00:55PM

S1 - 2'

E305176-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2321089	
Benzene	ND	0.0250	1	05/26/23	05/27/23	
Ethylbenzene	ND	0.0250	1	05/26/23	05/27/23	
Toluene	ND	0.0250	1	05/26/23	05/27/23	
o-Xylene	ND	0.0250	1	05/26/23	05/27/23	
p,m-Xylene	ND	0.0500	1	05/26/23	05/27/23	
Total Xylenes	ND	0.0250	1	05/26/23	05/27/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.0 %	70-130		05/26/23	05/27/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2321089	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/23	05/27/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.1 %	70-130		05/26/23	05/27/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2322011	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/30/23	05/30/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/30/23	05/30/23	
<i>Surrogate: n-Nonane</i>						
	107 %	50-200		05/30/23	05/30/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2322004	
Chloride	ND	20.0	1	05/30/23	05/31/23	



## Sample Data

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

Project Name: Mule 23-11 Fed Com 822H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
6/1/2023 1:00:55PM

S1 - 3'

E305176-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2321089
Benzene	ND	0.0250	1	05/26/23	05/27/23	
Ethylbenzene	ND	0.0250	1	05/26/23	05/27/23	
Toluene	ND	0.0250	1	05/26/23	05/27/23	
o-Xylene	ND	0.0250	1	05/26/23	05/27/23	
p,m-Xylene	ND	0.0500	1	05/26/23	05/27/23	
Total Xylenes	ND	0.0250	1	05/26/23	05/27/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.5 %	70-130		05/26/23	05/27/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2321089
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/23	05/27/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	87.4 %	70-130		05/26/23	05/27/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2322011
Diesel Range Organics (C10-C28)	ND	25.0	1	05/30/23	05/30/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/30/23	05/30/23	
<i>Surrogate: n-Nonane</i>						
	106 %	50-200		05/30/23	05/30/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2322004
Chloride	ND	20.0	1	05/30/23	05/31/23	





## Sample Data

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

Project Name: Mule 23-11 Fed Com 822H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
6/1/2023 1:00:55PM

S1 - 4'

E305176-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2321089	
Benzene	ND	0.0250	1	05/26/23	05/27/23	
Ethylbenzene	ND	0.0250	1	05/26/23	05/27/23	
Toluene	ND	0.0250	1	05/26/23	05/27/23	
o-Xylene	ND	0.0250	1	05/26/23	05/27/23	
p,m-Xylene	ND	0.0500	1	05/26/23	05/27/23	
Total Xylenes	ND	0.0250	1	05/26/23	05/27/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.2 %	70-130		05/26/23	05/27/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2321089	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/23	05/27/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.6 %	70-130		05/26/23	05/27/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2322011	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/30/23	05/30/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/30/23	05/30/23	
<i>Surrogate: n-Nonane</i>						
	99.7 %	50-200		05/30/23	05/30/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2322004	
Chloride	ND	20.0	1	05/30/23	05/31/23	



## Sample Data

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

Project Name: Mule 23-11 Fed Com 822H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
6/1/2023 1:00:55PM

S3 - 1'

E305176-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2321089	
Benzene	ND	0.0250	1	05/26/23	05/27/23	
Ethylbenzene	ND	0.0250	1	05/26/23	05/27/23	
Toluene	ND	0.0250	1	05/26/23	05/27/23	
o-Xylene	ND	0.0250	1	05/26/23	05/27/23	
p,m-Xylene	ND	0.0500	1	05/26/23	05/27/23	
Total Xylenes	ND	0.0250	1	05/26/23	05/27/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.2 %	70-130		05/26/23	05/27/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2321089	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/23	05/27/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	89.2 %	70-130		05/26/23	05/27/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2322011	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/30/23	05/30/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/30/23	05/30/23	
<i>Surrogate: n-Nonane</i>						
	111 %	50-200		05/30/23	05/30/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2322004	
Chloride	ND	20.0	1	05/30/23	05/31/23	



## Sample Data

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

Project Name: Mule 23-11 Fed Com 822H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
6/1/2023 1:00:55PM

S3 - 2'

E305176-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2321089	
Benzene	ND	0.0250	1	05/26/23	05/27/23	
Ethylbenzene	ND	0.0250	1	05/26/23	05/27/23	
Toluene	ND	0.0250	1	05/26/23	05/27/23	
o-Xylene	ND	0.0250	1	05/26/23	05/27/23	
p,m-Xylene	ND	0.0500	1	05/26/23	05/27/23	
Total Xylenes	ND	0.0250	1	05/26/23	05/27/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.2 %	70-130		05/26/23	05/27/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2321089	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/23	05/27/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.4 %	70-130		05/26/23	05/27/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2322011	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/30/23	05/30/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/30/23	05/30/23	
<i>Surrogate: n-Nonane</i>						
	110 %	50-200		05/30/23	05/30/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2322004	
Chloride	ND	20.0	1	05/30/23	05/31/23	





## Sample Data

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

Project Name: Mule 23-11 Fed Com 822H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
6/1/2023 1:00:55PM

S3 - 3'

E305176-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2321089	
Benzene	ND	0.0250	1	05/26/23	05/27/23	
Ethylbenzene	ND	0.0250	1	05/26/23	05/27/23	
Toluene	ND	0.0250	1	05/26/23	05/27/23	
o-Xylene	ND	0.0250	1	05/26/23	05/27/23	
p,m-Xylene	ND	0.0500	1	05/26/23	05/27/23	
Total Xylenes	ND	0.0250	1	05/26/23	05/27/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.9 %	70-130		05/26/23	05/27/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2321089	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/23	05/27/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.9 %	70-130		05/26/23	05/27/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2322011	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/30/23	05/30/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/30/23	05/30/23	
<i>Surrogate: n-Nonane</i>						
	110 %	50-200		05/30/23	05/30/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2322004	
Chloride	ND	20.0	1	05/30/23	05/31/23	



## Sample Data

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

Project Name: Mule 23-11 Fed Com 822H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
6/1/2023 1:00:55PM

S3 - 4'

E305176-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2321089	
Benzene	ND	0.0250	1	05/26/23	05/27/23	
Ethylbenzene	ND	0.0250	1	05/26/23	05/27/23	
Toluene	ND	0.0250	1	05/26/23	05/27/23	
o-Xylene	ND	0.0250	1	05/26/23	05/27/23	
p,m-Xylene	ND	0.0500	1	05/26/23	05/27/23	
Total Xylenes	ND	0.0250	1	05/26/23	05/27/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.9 %	70-130		05/26/23	05/27/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2321089	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/23	05/27/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.2 %	70-130		05/26/23	05/27/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2322011	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/30/23	05/30/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/30/23	05/30/23	
<i>Surrogate: n-Nonane</i>						
	112 %	50-200		05/30/23	05/30/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2322004	
Chloride	ND	20.0	1	05/30/23	05/31/23	



## Sample Data

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

Project Name: Mule 23-11 Fed Com 822H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
6/1/2023 1:00:55PM

S4 - 1'

E305176-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2321089	
Benzene	ND	0.0250	1	05/26/23	05/27/23	
Ethylbenzene	ND	0.0250	1	05/26/23	05/27/23	
Toluene	ND	0.0250	1	05/26/23	05/27/23	
o-Xylene	ND	0.0250	1	05/26/23	05/27/23	
p,m-Xylene	ND	0.0500	1	05/26/23	05/27/23	
Total Xylenes	ND	0.0250	1	05/26/23	05/27/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.0 %	70-130		05/26/23	05/27/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2321089	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/23	05/27/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.1 %	70-130		05/26/23	05/27/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2322011	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/30/23	05/30/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/30/23	05/30/23	
<i>Surrogate: n-Nonane</i>						
	116 %	50-200		05/30/23	05/30/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2322004	
Chloride	ND	20.0	1	05/30/23	05/31/23	





## Sample Data

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

Project Name: Mule 23-11 Fed Com 822H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
6/1/2023 1:00:55PM

S4 - 2'

E305176-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2321089	
Benzene	ND	0.0250	1	05/26/23	05/27/23	
Ethylbenzene	ND	0.0250	1	05/26/23	05/27/23	
Toluene	ND	0.0250	1	05/26/23	05/27/23	
o-Xylene	ND	0.0250	1	05/26/23	05/27/23	
p,m-Xylene	ND	0.0500	1	05/26/23	05/27/23	
Total Xylenes	ND	0.0250	1	05/26/23	05/27/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.5 %	70-130		05/26/23	05/27/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2321089	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/23	05/27/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.2 %	70-130		05/26/23	05/27/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2322011	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/30/23	05/30/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/30/23	05/30/23	
<i>Surrogate: n-Nonane</i>						
	109 %	50-200		05/30/23	05/30/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2322004	
Chloride	ND	20.0	1	05/30/23	06/01/23	



## Sample Data

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

Project Name: Mule 23-11 Fed Com 822H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
6/1/2023 1:00:55PM

S4 - 3'

E305176-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2321089	
Benzene	ND	0.0250	1	05/26/23	05/27/23	
Ethylbenzene	ND	0.0250	1	05/26/23	05/27/23	
Toluene	ND	0.0250	1	05/26/23	05/27/23	
o-Xylene	ND	0.0250	1	05/26/23	05/27/23	
p,m-Xylene	ND	0.0500	1	05/26/23	05/27/23	
Total Xylenes	ND	0.0250	1	05/26/23	05/27/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.3 %	70-130		05/26/23	05/27/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2321089	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/23	05/27/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.5 %	70-130		05/26/23	05/27/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2322011	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/30/23	05/30/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/30/23	05/30/23	
<i>Surrogate: n-Nonane</i>						
	107 %	50-200		05/30/23	05/30/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2322004	
Chloride	ND	20.0	1	05/30/23	06/01/23	



## Sample Data

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

Project Name: Mule 23-11 Fed Com 822H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
6/1/2023 1:00:55PM

S4 - 4'

E305176-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2321089	
Benzene	ND	0.0250	1	05/26/23	05/27/23	
Ethylbenzene	ND	0.0250	1	05/26/23	05/27/23	
Toluene	ND	0.0250	1	05/26/23	05/27/23	
o-Xylene	ND	0.0250	1	05/26/23	05/27/23	
p,m-Xylene	ND	0.0500	1	05/26/23	05/27/23	
Total Xylenes	ND	0.0250	1	05/26/23	05/27/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.4 %	70-130		05/26/23	05/27/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2321089	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/23	05/27/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.4 %	70-130		05/26/23	05/27/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2322011	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/30/23	05/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/30/23	05/31/23	
<i>Surrogate: n-Nonane</i>						
	113 %	50-200		05/30/23	05/31/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2322004	
Chloride	ND	20.0	1	05/30/23	06/01/23	





## Sample Data

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

Project Name: Mule 23-11 Fed Com 822H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
6/1/2023 1:00:55PM

S5 - 1'

E305176-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2321089
Benzene	ND	0.0250	1	05/26/23	05/27/23	
Ethylbenzene	ND	0.0250	1	05/26/23	05/27/23	
Toluene	ND	0.0250	1	05/26/23	05/27/23	
o-Xylene	ND	0.0250	1	05/26/23	05/27/23	
p,m-Xylene	ND	0.0500	1	05/26/23	05/27/23	
Total Xylenes	ND	0.0250	1	05/26/23	05/27/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.5 %	70-130		05/26/23	05/27/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2321089
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/23	05/27/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.8 %	70-130		05/26/23	05/27/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2322011
Diesel Range Organics (C10-C28)	ND	25.0	1	05/30/23	05/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/30/23	05/31/23	
<i>Surrogate: n-Nonane</i>						
	108 %	50-200		05/30/23	05/31/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2322004
Chloride	ND	20.0	1	05/30/23	06/01/23	



## Sample Data

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

Project Name: Mule 23-11 Fed Com 822H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
6/1/2023 1:00:55PM

S5 - 2'

E305176-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2321089	
Benzene	ND	0.0250	1	05/26/23	05/27/23	
Ethylbenzene	ND	0.0250	1	05/26/23	05/27/23	
Toluene	ND	0.0250	1	05/26/23	05/27/23	
o-Xylene	ND	0.0250	1	05/26/23	05/27/23	
p,m-Xylene	ND	0.0500	1	05/26/23	05/27/23	
Total Xylenes	ND	0.0250	1	05/26/23	05/27/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.0 %	70-130		05/26/23	05/27/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2321089	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/23	05/27/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.2 %	70-130		05/26/23	05/27/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2322011	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/30/23	05/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/30/23	05/31/23	
<i>Surrogate: n-Nonane</i>						
	111 %	50-200		05/30/23	05/31/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2322004	
Chloride	ND	20.0	1	05/30/23	06/01/23	



## Sample Data

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

Project Name: Mule 23-11 Fed Com 822H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
6/1/2023 1:00:55PM

S5 - 3'

E305176-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2321089	
Benzene	ND	0.0250	1	05/26/23	05/27/23	
Ethylbenzene	ND	0.0250	1	05/26/23	05/27/23	
Toluene	ND	0.0250	1	05/26/23	05/27/23	
o-Xylene	ND	0.0250	1	05/26/23	05/27/23	
p,m-Xylene	ND	0.0500	1	05/26/23	05/27/23	
Total Xylenes	ND	0.0250	1	05/26/23	05/27/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.9 %	70-130		05/26/23	05/27/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2321089	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/23	05/27/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.9 %	70-130		05/26/23	05/27/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2322011	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/30/23	05/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/30/23	05/31/23	
<i>Surrogate: n-Nonane</i>						
	113 %	50-200		05/30/23	05/31/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2322004	
Chloride	ND	20.0	1	05/30/23	06/01/23	



## Sample Data

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

Project Name: Mule 23-11 Fed Com 822H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
6/1/2023 1:00:55PM

S5 - 4'

E305176-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2321089	
Benzene	ND	0.0250	1	05/26/23	05/27/23	
Ethylbenzene	ND	0.0250	1	05/26/23	05/27/23	
Toluene	ND	0.0250	1	05/26/23	05/27/23	
o-Xylene	ND	0.0250	1	05/26/23	05/27/23	
p,m-Xylene	ND	0.0500	1	05/26/23	05/27/23	
Total Xylenes	ND	0.0250	1	05/26/23	05/27/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.2 %	70-130		05/26/23	05/27/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2321089	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/23	05/27/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.7 %	70-130		05/26/23	05/27/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2322011	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/30/23	05/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/30/23	05/31/23	
<i>Surrogate: n-Nonane</i>						
	114 %	50-200		05/30/23	05/31/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2322004	
Chloride	ND	20.0	1	05/30/23	06/01/23	





## Sample Data

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

Project Name: Mule 23-11 Fed Com 822H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
6/1/2023 1:00:55PM

S7 - 1'

E305176-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2321089
Benzene	ND	0.0250	1	05/26/23	05/27/23	
Ethylbenzene	ND	0.0250	1	05/26/23	05/27/23	
Toluene	ND	0.0250	1	05/26/23	05/27/23	
o-Xylene	ND	0.0250	1	05/26/23	05/27/23	
p,m-Xylene	ND	0.0500	1	05/26/23	05/27/23	
Total Xylenes	ND	0.0250	1	05/26/23	05/27/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.2 %	70-130		05/26/23	05/27/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2321089
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/23	05/27/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.5 %	70-130		05/26/23	05/27/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2322011
Diesel Range Organics (C10-C28)	ND	25.0	1	05/30/23	05/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/30/23	05/31/23	
<i>Surrogate: n-Nonane</i>						
	107 %	50-200		05/30/23	05/31/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2322004
Chloride	ND	20.0	1	05/30/23	06/01/23	



## Sample Data

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

Project Name: Mule 23-11 Fed Com 822H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
6/1/2023 1:00:55PM

S7 - 2'

E305176-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2321089	
Benzene	ND	0.0250	1	05/26/23	05/27/23	
Ethylbenzene	ND	0.0250	1	05/26/23	05/27/23	
Toluene	ND	0.0250	1	05/26/23	05/27/23	
o-Xylene	ND	0.0250	1	05/26/23	05/27/23	
p,m-Xylene	ND	0.0500	1	05/26/23	05/27/23	
Total Xylenes	ND	0.0250	1	05/26/23	05/27/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.0 %	70-130		05/26/23	05/27/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2321089	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/23	05/27/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.2 %	70-130		05/26/23	05/27/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2322011	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/30/23	05/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/30/23	05/31/23	
<i>Surrogate: n-Nonane</i>						
	105 %	50-200		05/30/23	05/31/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2322004	
Chloride	ND	20.0	1	05/30/23	06/01/23	



## Sample Data

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

Project Name: Mule 23-11 Fed Com 822H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
6/1/2023 1:00:55PM

S7 - 3'

E305176-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2321089
Benzene	ND	0.0250	1	05/26/23	05/27/23	
Ethylbenzene	ND	0.0250	1	05/26/23	05/27/23	
Toluene	ND	0.0250	1	05/26/23	05/27/23	
o-Xylene	ND	0.0250	1	05/26/23	05/27/23	
p,m-Xylene	ND	0.0500	1	05/26/23	05/27/23	
Total Xylenes	ND	0.0250	1	05/26/23	05/27/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.8 %	70-130		05/26/23	05/27/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2321089
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/23	05/27/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.9 %	70-130		05/26/23	05/27/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2322011
Diesel Range Organics (C10-C28)	ND	25.0	1	05/30/23	05/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/30/23	05/31/23	
<i>Surrogate: n-Nonane</i>						
	110 %	50-200		05/30/23	05/31/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2322004
Chloride	ND	20.0	1	05/30/23	06/01/23	



## Sample Data

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

Project Name: Mule 23-11 Fed Com 822H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
6/1/2023 1:00:55PM

S7 - 4'

E305176-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2321089	
Benzene	ND	0.0250	1	05/26/23	05/27/23	
Ethylbenzene	ND	0.0250	1	05/26/23	05/27/23	
Toluene	ND	0.0250	1	05/26/23	05/27/23	
o-Xylene	ND	0.0250	1	05/26/23	05/27/23	
p,m-Xylene	ND	0.0500	1	05/26/23	05/27/23	
Total Xylenes	ND	0.0250	1	05/26/23	05/27/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.5 %	70-130		05/26/23	05/27/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2321089	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/23	05/27/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.0 %	70-130		05/26/23	05/27/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2322011	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/30/23	05/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/30/23	05/31/23	
<i>Surrogate: n-Nonane</i>						
	112 %	50-200		05/30/23	05/31/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2322004	
Chloride	ND	20.0	1	05/30/23	06/01/23	





## QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Mule 23-11 Fed Com 822H	<b>Reported:</b>
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	6/1/2023 1:00:55PM

## Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2321089-BLK1)

Prepared: 05/26/23 Analyzed: 05/26/23

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	7.52		8.00		94.1	70-130			

## LCS (2321089-BS1)

Prepared: 05/26/23 Analyzed: 05/26/23

Benzene	4.64	0.0250	5.00		92.8	70-130			
Ethylbenzene	4.93	0.0250	5.00		98.7	70-130			
Toluene	4.98	0.0250	5.00		99.6	70-130			
o-Xylene	5.07	0.0250	5.00		101	70-130			
p,m-Xylene	10.0	0.0500	10.0		100	70-130			
Total Xylenes	15.1	0.0250	15.0		101	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.61		8.00		95.1	70-130			

## Matrix Spike (2321089-MS1)

Source: E305176-01

Prepared: 05/26/23 Analyzed: 05/27/23

Benzene	4.26	0.0250	5.00	ND	85.1	54-133			
Ethylbenzene	4.53	0.0250	5.00	ND	90.6	61-133			
Toluene	4.57	0.0250	5.00	ND	91.5	61-130			
o-Xylene	4.68	0.0250	5.00	ND	93.6	63-131			
p,m-Xylene	9.21	0.0500	10.0	ND	92.1	63-131			
Total Xylenes	13.9	0.0250	15.0	ND	92.6	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.63		8.00		95.4	70-130			

## Matrix Spike Dup (2321089-MSD1)

Source: E305176-01

Prepared: 05/26/23 Analyzed: 05/27/23

Benzene	4.46	0.0250	5.00	ND	89.3	54-133	4.76	20	
Ethylbenzene	4.76	0.0250	5.00	ND	95.2	61-133	5.03	20	
Toluene	4.81	0.0250	5.00	ND	96.1	61-130	4.94	20	
o-Xylene	4.90	0.0250	5.00	ND	97.9	63-131	4.56	20	
p,m-Xylene	9.68	0.0500	10.0	ND	96.8	63-131	5.06	20	
Total Xylenes	14.6	0.0250	15.0	ND	97.2	63-131	4.89	20	
Surrogate: 4-Bromochlorobenzene-PID	7.70		8.00		96.2	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Mule 23-11 Fed Com 822H	Reported:  6/1/2023 1:00:55PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2321089-BLK1) Prepared: 05/26/23 Analyzed: 05/26/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.47		8.00		93.3	70-130			

LCS (2321089-BS2) Prepared: 05/26/23 Analyzed: 05/26/23

Gasoline Range Organics (C6-C10)	46.0	20.0	50.0		92.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.70		8.00		96.3	70-130			

Matrix Spike (2321089-MS2) Source: E305176-01 Prepared: 05/26/23 Analyzed: 05/27/23

Gasoline Range Organics (C6-C10)	44.4	20.0	50.0	ND	88.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.35		8.00		91.9	70-130			

Matrix Spike Dup (2321089-MSD2) Source: E305176-01 Prepared: 05/26/23 Analyzed: 05/27/23

Gasoline Range Organics (C6-C10)	45.1	20.0	50.0	ND	90.2	70-130	1.48	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.44		8.00		93.0	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Mule 23-11 Fed Com 822H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	6/1/2023 1:00:55PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2322011-BLK1)					Prepared: 05/30/23 Analyzed: 05/30/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	61.6		50.0		123	50-200			

LCS (2322011-BS1)					Prepared: 05/30/23 Analyzed: 05/30/23				
Diesel Range Organics (C10-C28)	271	25.0	250		109	38-132			
Surrogate: n-Nonane	51.9		50.0		104	50-200			

Matrix Spike (2322011-MS1)					Source: E305176-04		Prepared: 05/30/23 Analyzed: 05/30/23		
Diesel Range Organics (C10-C28)	276	25.0	250	ND	111	38-132			
Surrogate: n-Nonane	53.1		50.0		106	50-200			

Matrix Spike Dup (2322011-MSD1)					Source: E305176-04		Prepared: 05/30/23 Analyzed: 05/30/23		
Diesel Range Organics (C10-C28)	263	25.0	250	ND	105	38-132	4.90	20	
Surrogate: n-Nonane	47.7		50.0		95.4	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Mule 23-11 Fed Com 822H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	6/1/2023 1:00:55PM

Anions by EPA 300.0/9056A

Analyst: BA

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

Blank (2322004-BLK1)					Prepared: 05/30/23 Analyzed: 05/31/23				
Chloride	ND	20.0							
LCS (2322004-BS1)					Prepared: 05/30/23 Analyzed: 05/31/23				
Chloride	263	20.0	250		105	90-110			
Matrix Spike (2322004-MS1)					Source: E305176-01		Prepared: 05/30/23 Analyzed: 05/31/23		
Chloride	263	20.0	250	ND	105	80-120			
Matrix Spike Dup (2322004-MSD1)					Source: E305176-01		Prepared: 05/30/23 Analyzed: 05/31/23		
Chloride	261	20.0	250	ND	104	80-120	0.610	20	

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





Definitions and Notes

Pima Environmental Services-Carlsbad	Project Name:	Mule 23-11 Fed Com 822H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	06/01/23 13:00

- 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

## Chain of Custody

Page 1 of 5

Client: Pima Environmental Services					Bill To		Lab Use Only		TAT				EPA Program			
Project: <u>Mule 23-11 Fed. Con 8224</u>					Attention: <u>Devon</u>		Lab WO# <u>E305176</u>		Job Number <u>01058-0057</u>		1D	2D	3D	Standard	CWA	SDWA
Project Manager: Tom Bynum					Address:		Analysis and Method								RCRA	
Address: 5614 N. Lovington Hwy.					City, State, Zip											
City, State, Zip Hobbs, NM, 88240					Phone:											
Phone: 580-748-1613					Email:											
Email: tom@pimaoil.com					Pima Project # <u>310</u>											
Report due by:																

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			BGDOC NM	BGDOC TX		Remarks
10:00	5/24/23	S	1	S1-1'	1									X			
10:05				S1-2'	2												
10:40				S1-3'	3												
10:15				S1-4'	4												
10:20				S3-1'	5												
10:25				S3-2'	6												
10:30				S3-3'	7												
10:35				S3-4'	8												
10:40				S4-1'	9												
10:45				S4-2'	10												

Additional Instructions: WO# XX-146919.01-DRL

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

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

Relinquished by: (Signature) <u>Karime Adams</u>	Date <u>5/25/23</u>	Time <u>800</u>	Received by: (Signature) <u>Michelle Conly</u>	Date <u>5-25-23</u>	Time <u>1700</u>	Lab Use Only Received on ice: <u>(Y)</u> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) <u>Michelle Conly</u>	Date <u>5-25-23</u>	Time <u>1915</u>	Received by: (Signature) <u>Andrew Messo</u>	Date <u>5-25-23</u>	Time <u>1930</u>	
Relinquished by: (Signature) <u>Andrew Messo</u>	Date <u>5-26-23</u>	Time <u>0100</u>	Received by: (Signature) <u>Carth Mears</u>	Date <u>5/26/23</u>	Time <u>8:30</u>	

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other \_\_\_\_\_

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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



## Project Information

## Chain of Custody

Page 2 of 5

Client: Pima Environmental Services					Bill To		Lab Use Only				TAT				EPA Program		
Project: <u>Mule 23-11 Fed. Com 822H</u>					Attention: <u>Revon</u>		Lab WO# <u>E305176</u>		Job Number <u>01058-0007</u>		1D	2D	3D	Standard	CWA	SDWA	
Project Manager: Tom Bynum					Address:		Analysis and Method								Y		RCRA
Address: 5614 N. Lovington Hwy.					City, State, Zip												
City, State, Zip Hobbs, NM, 88240					Phone:		DRO/ORO by 8015 GRO/ORO by 8015 BTEX by 8021 VOC by 8260 Metals 6010 Chloride 300.0 NM TX								State		
Phone: 580-748-1613					Email:										NM	CO	UT
Email: tom@pimaoil.com					Pima Project # <u>310</u>		Remarks										
Report due by:																	
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number												
10:50	5/24/23	S	1	S4-3'	11												
10:55				S4-4'	12												
11:00				S5-1'	13												
11:05				S5-2'	14												
11:10				S5-3'	15												
11:15				S5-4'	16												
11:20				S7-1'	17												
11:35				S7-2'	18												
11:30				S7-3'	19												
11:35				S7-4'	20												
Additional Instructions: <u>WO# X X-146919.01-DRL</u>																	
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.										Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.							
Sampled by: <u>AF</u>										Lab Use Only							
Relinquished by: (Signature) <u>Karime Adams</u>		Date <u>5/25/23</u>		Time <u>5:00</u>		Received by: (Signature) <u>Michelle Cangel</u>		Date <u>5/25/23</u>		Time <u>1700</u>		Received on ice: <u>Y</u> / N					
Relinquished by: (Signature) <u>Michelle Cangel</u>		Date <u>5-25-23</u>		Time <u>1915</u>		Received by: (Signature) <u>Andrew Musso</u>		Date <u>5-25-23</u>		Time <u>1930</u>		T1 _____ T2 _____ T3 _____					
Relinquished by: (Signature) <u>Andrew Musso</u>		Date <u>5-26-23</u>		Time <u>0100</u>		Received by: (Signature) <u>Carth Man</u>		Date <u>5/26/23</u>		Time <u>8:30</u>		AVG Temp °C <u>4</u>					
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA							
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																	

## Envirotech Analytical Laboratory

Printed: 5/26/2023 12:49:45PM

## 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:	05/26/23 08:30	Work Order ID:	E305176
Phone:	(575) 631-6977	Date Logged In:	05/26/23 09:42	Logged In By:	Caitlin Mars
Email:	tom@pimaoil.com	Due Date:	06/02/23 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/Resolution

Project Mule 23-11 Fed Com 822H has been separated into 2 reports due to sample volume. Workorders are as follows: E305176 & E305177.

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

20. Were field sample labels filled out with the minimum information:
  - Sample ID? Yes
  - Date/Time Collected? Yes
  - Collectors name? Yes

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.



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: Mule 23-11 Fed Com 822H

Work Order: E305177

Job Number: 01058-0007

Received: 5/26/2023

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
6/1/23

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: 6/1/23

Tom Bynum  
PO Box 247  
Plains, TX 79355-0247



Project Name: Mule 23-11 Fed Com 822H  
Workorder: E305177  
Date Received: 5/26/2023 8:30:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/26/2023 8:30:00AM, under the Project Name: Mule 23-11 Fed Com 822H.

The analytical test results summarized in this report with the Project Name: Mule 23-11 Fed Com 822H apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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

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

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

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## Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	Mule 23-11 Fed Com 822H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	06/01/23 14:54

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S8 - 1'	E305177-01A	Soil	05/24/23	05/26/23	Glass Jar, 2 oz.
S8 - 2'	E305177-02A	Soil	05/24/23	05/26/23	Glass Jar, 2 oz.
S8 - 3'	E305177-03A	Soil	05/24/23	05/26/23	Glass Jar, 2 oz.
S8 - 4'	E305177-04A	Soil	05/24/23	05/26/23	Glass Jar, 2 oz.
S9 - 1'	E305177-05A	Soil	05/24/23	05/26/23	Glass Jar, 2 oz.
S9 - 2'	E305177-06A	Soil	05/24/23	05/26/23	Glass Jar, 2 oz.
S9 - 3'	E305177-07A	Soil	05/24/23	05/26/23	Glass Jar, 2 oz.
S9 - 4'	E305177-08A	Soil	05/24/23	05/26/23	Glass Jar, 2 oz.
S12 - 1'	E305177-09A	Soil	05/24/23	05/26/23	Glass Jar, 2 oz.
S12 - 2'	E305177-10A	Soil	05/24/23	05/26/23	Glass Jar, 2 oz.
S12 - 3'	E305177-11A	Soil	05/24/23	05/26/23	Glass Jar, 2 oz.
S12 - 4'	E305177-12A	Soil	05/24/23	05/26/23	Glass Jar, 2 oz.
SW1	E305177-13A	Soil	05/24/23	05/26/23	Glass Jar, 2 oz.
SW2	E305177-14A	Soil	05/24/23	05/26/23	Glass Jar, 2 oz.
SW3	E305177-15A	Soil	05/24/23	05/26/23	Glass Jar, 2 oz.
SW4	E305177-16A	Soil	05/24/23	05/26/23	Glass Jar, 2 oz.
SW5	E305177-17A	Soil	05/24/23	05/26/23	Glass Jar, 2 oz.
SW6	E305177-18A	Soil	05/24/23	05/26/23	Glass Jar, 2 oz.
SW7	E305177-19A	Soil	05/24/23	05/26/23	Glass Jar, 2 oz.
SW8	E305177-20A	Soil	05/24/23	05/26/23	Glass Jar, 2 oz.
SW9	E305177-21A	Soil	05/24/23	05/26/23	Glass Jar, 2 oz.
SW10	E305177-22A	Soil	05/24/23	05/26/23	Glass Jar, 2 oz.



## Sample Data

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

Project Name: Mule 23-11 Fed Com 822H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
6/1/2023 2:54:47PM

S8 - 1'

E305177-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2321092	
Benzene	ND	0.0250	1	05/26/23	05/30/23	
Ethylbenzene	ND	0.0250	1	05/26/23	05/30/23	
Toluene	ND	0.0250	1	05/26/23	05/30/23	
o-Xylene	ND	0.0250	1	05/26/23	05/30/23	
p,m-Xylene	ND	0.0500	1	05/26/23	05/30/23	
Total Xylenes	ND	0.0250	1	05/26/23	05/30/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.2 %	70-130		05/26/23	05/30/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2321092	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/23	05/30/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.8 %	70-130		05/26/23	05/30/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: JL		Batch: 2322014	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/30/23	05/30/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/30/23	05/30/23	
<i>Surrogate: n-Nonane</i>						
	92.8 %	50-200		05/30/23	05/30/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2322005	
Chloride	ND	20.0	1	05/30/23	05/31/23	



## Sample Data

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

Project Name: Mule 23-11 Fed Com 822H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
6/1/2023 2:54:47PM

S8 - 2'

E305177-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2321092	
Benzene	ND	0.0250	1	05/26/23	05/30/23	
Ethylbenzene	ND	0.0250	1	05/26/23	05/30/23	
Toluene	ND	0.0250	1	05/26/23	05/30/23	
o-Xylene	ND	0.0250	1	05/26/23	05/30/23	
p,m-Xylene	ND	0.0500	1	05/26/23	05/30/23	
Total Xylenes	ND	0.0250	1	05/26/23	05/30/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.0 %	70-130		05/26/23	05/30/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2321092	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/23	05/30/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.5 %	70-130		05/26/23	05/30/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: JL		Batch: 2322014	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/30/23	05/30/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/30/23	05/30/23	
<i>Surrogate: n-Nonane</i>						
	92.0 %	50-200		05/30/23	05/30/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2322005	
Chloride	ND	20.0	1	05/30/23	05/31/23	



## Sample Data

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

Project Name: Mule 23-11 Fed Com 822H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
6/1/2023 2:54:47PM

S8 - 3'

E305177-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2321092	
Benzene	ND	0.0250	1	05/26/23	05/30/23	
Ethylbenzene	ND	0.0250	1	05/26/23	05/30/23	
Toluene	ND	0.0250	1	05/26/23	05/30/23	
o-Xylene	ND	0.0250	1	05/26/23	05/30/23	
p,m-Xylene	ND	0.0500	1	05/26/23	05/30/23	
Total Xylenes	ND	0.0250	1	05/26/23	05/30/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.6 %	70-130		05/26/23	05/30/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2321092	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/23	05/30/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.5 %	70-130		05/26/23	05/30/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: JL		Batch: 2322014	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/30/23	05/30/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/30/23	05/30/23	
<i>Surrogate: n-Nonane</i>						
	99.8 %	50-200		05/30/23	05/30/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2322005	
Chloride	ND	20.0	1	05/30/23	05/31/23	





## Sample Data

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

Project Name: Mule 23-11 Fed Com 822H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
6/1/2023 2:54:47PM

S8 - 4'

E305177-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2321092	
Benzene	ND	0.0250	1	05/26/23	05/30/23	
Ethylbenzene	ND	0.0250	1	05/26/23	05/30/23	
Toluene	ND	0.0250	1	05/26/23	05/30/23	
o-Xylene	ND	0.0250	1	05/26/23	05/30/23	
p,m-Xylene	ND	0.0500	1	05/26/23	05/30/23	
Total Xylenes	ND	0.0250	1	05/26/23	05/30/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.3 %	70-130		05/26/23	05/30/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2321092	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/23	05/30/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.0 %	70-130		05/26/23	05/30/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: JL		Batch: 2322014	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/30/23	05/30/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/30/23	05/30/23	
<i>Surrogate: n-Nonane</i>						
	101 %	50-200		05/30/23	05/30/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2322005	
Chloride	ND	20.0	1	05/30/23	05/31/23	



## Sample Data

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

Project Name: Mule 23-11 Fed Com 822H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
6/1/2023 2:54:47PM

S9 - 1'

E305177-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2321092	
Benzene	ND	0.0250	1	05/26/23	05/30/23	
Ethylbenzene	ND	0.0250	1	05/26/23	05/30/23	
Toluene	ND	0.0250	1	05/26/23	05/30/23	
o-Xylene	ND	0.0250	1	05/26/23	05/30/23	
p,m-Xylene	ND	0.0500	1	05/26/23	05/30/23	
Total Xylenes	ND	0.0250	1	05/26/23	05/30/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.9 %	70-130		05/26/23	05/30/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2321092	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/23	05/30/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.3 %	70-130		05/26/23	05/30/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: JL		Batch: 2322014	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/30/23	05/30/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/30/23	05/30/23	
<i>Surrogate: n-Nonane</i>						
	97.2 %	50-200		05/30/23	05/30/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2322005	
Chloride	ND	20.0	1	05/30/23	05/31/23	



## Sample Data

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

Project Name: Mule 23-11 Fed Com 822H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
6/1/2023 2:54:47PM

S9 - 2'

E305177-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2321092	
Benzene	ND	0.0250	1	05/26/23	05/30/23	
Ethylbenzene	ND	0.0250	1	05/26/23	05/30/23	
Toluene	ND	0.0250	1	05/26/23	05/30/23	
o-Xylene	ND	0.0250	1	05/26/23	05/30/23	
p,m-Xylene	ND	0.0500	1	05/26/23	05/30/23	
Total Xylenes	ND	0.0250	1	05/26/23	05/30/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.4 %	70-130		05/26/23	05/30/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2321092	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/23	05/30/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.9 %	70-130		05/26/23	05/30/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: JL		Batch: 2322014	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/30/23	05/30/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/30/23	05/30/23	
<i>Surrogate: n-Nonane</i>						
	102 %	50-200		05/30/23	05/30/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2322005	
Chloride	ND	20.0	1	05/30/23	05/31/23	



## Sample Data

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

Project Name: Mule 23-11 Fed Com 822H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
6/1/2023 2:54:47PM

S9 - 3'

E305177-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2321092	
Benzene	ND	0.0250	1	05/26/23	05/30/23	
Ethylbenzene	ND	0.0250	1	05/26/23	05/30/23	
Toluene	ND	0.0250	1	05/26/23	05/30/23	
o-Xylene	ND	0.0250	1	05/26/23	05/30/23	
p,m-Xylene	ND	0.0500	1	05/26/23	05/30/23	
Total Xylenes	ND	0.0250	1	05/26/23	05/30/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.5 %	70-130		05/26/23	05/30/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2321092	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/23	05/30/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.7 %	70-130		05/26/23	05/30/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: JL		Batch: 2322014	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/30/23	05/30/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/30/23	05/30/23	
<i>Surrogate: n-Nonane</i>						
	100 %	50-200		05/30/23	05/30/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2322005	
Chloride	ND	20.0	1	05/30/23	05/31/23	





## Sample Data

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

Project Name: Mule 23-11 Fed Com 822H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
6/1/2023 2:54:47PM

S9 - 4'

E305177-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2321092	
Benzene	ND	0.0250	1	05/26/23	05/30/23	
Ethylbenzene	ND	0.0250	1	05/26/23	05/30/23	
Toluene	ND	0.0250	1	05/26/23	05/30/23	
o-Xylene	ND	0.0250	1	05/26/23	05/30/23	
p,m-Xylene	ND	0.0500	1	05/26/23	05/30/23	
Total Xylenes	ND	0.0250	1	05/26/23	05/30/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.5 %	70-130		05/26/23	05/30/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2321092	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/23	05/30/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.3 %	70-130		05/26/23	05/30/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: JL		Batch: 2322014	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/30/23	05/30/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/30/23	05/30/23	
<i>Surrogate: n-Nonane</i>						
	104 %	50-200		05/30/23	05/30/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2322005	
Chloride	ND	20.0	1	05/30/23	05/31/23	



## Sample Data

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

Project Name: Mule 23-11 Fed Com 822H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
6/1/2023 2:54:47PM

## S12 - 1'

## E305177-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2321092	
Benzene	ND	0.0250	1	05/26/23	05/30/23	
Ethylbenzene	ND	0.0250	1	05/26/23	05/30/23	
Toluene	ND	0.0250	1	05/26/23	05/30/23	
o-Xylene	ND	0.0250	1	05/26/23	05/30/23	
p,m-Xylene	ND	0.0500	1	05/26/23	05/30/23	
Total Xylenes	ND	0.0250	1	05/26/23	05/30/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.5 %	70-130		05/26/23	05/30/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2321092	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/23	05/30/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.8 %	70-130		05/26/23	05/30/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: JL		Batch: 2322014	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/30/23	05/30/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/30/23	05/30/23	
<i>Surrogate: n-Nonane</i>						
	98.5 %	50-200		05/30/23	05/30/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2322005	
Chloride	ND	20.0	1	05/30/23	05/31/23	



## Sample Data

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

Project Name: Mule 23-11 Fed Com 822H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
6/1/2023 2:54:47PM

S12 - 2'

E305177-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2321092	
Benzene	ND	0.0250	1	05/26/23	05/30/23	
Ethylbenzene	ND	0.0250	1	05/26/23	05/30/23	
Toluene	ND	0.0250	1	05/26/23	05/30/23	
o-Xylene	ND	0.0250	1	05/26/23	05/30/23	
p,m-Xylene	ND	0.0500	1	05/26/23	05/30/23	
Total Xylenes	ND	0.0250	1	05/26/23	05/30/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.5 %	70-130		05/26/23	05/30/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2321092	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/23	05/30/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.8 %	70-130		05/26/23	05/30/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: JL		Batch: 2322014	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/30/23	05/30/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/30/23	05/30/23	
<i>Surrogate: n-Nonane</i>						
	96.8 %	50-200		05/30/23	05/30/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2322005	
Chloride	ND	20.0	1	05/30/23	05/31/23	



## Sample Data

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

Project Name: Mule 23-11 Fed Com 822H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
6/1/2023 2:54:47PM

S12 - 3'

E305177-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2321092	
Benzene	ND	0.0250	1	05/26/23	05/30/23	
Ethylbenzene	ND	0.0250	1	05/26/23	05/30/23	
Toluene	ND	0.0250	1	05/26/23	05/30/23	
o-Xylene	ND	0.0250	1	05/26/23	05/30/23	
p,m-Xylene	ND	0.0500	1	05/26/23	05/30/23	
Total Xylenes	ND	0.0250	1	05/26/23	05/30/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.8 %	70-130		05/26/23	05/30/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2321092	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/23	05/30/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.0 %	70-130		05/26/23	05/30/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: JL		Batch: 2322014	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/30/23	05/30/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/30/23	05/30/23	
<i>Surrogate: n-Nonane</i>						
	98.4 %	50-200		05/30/23	05/30/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2322005	
Chloride	ND	20.0	1	05/30/23	05/31/23	





## Sample Data

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

Project Name: Mule 23-11 Fed Com 822H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
6/1/2023 2:54:47PM

S12 - 4'

E305177-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2321092
Benzene	ND	0.0250	1	05/26/23	05/30/23	
Ethylbenzene	ND	0.0250	1	05/26/23	05/30/23	
Toluene	ND	0.0250	1	05/26/23	05/30/23	
o-Xylene	ND	0.0250	1	05/26/23	05/30/23	
p,m-Xylene	ND	0.0500	1	05/26/23	05/30/23	
Total Xylenes	ND	0.0250	1	05/26/23	05/30/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.4 %	70-130		05/26/23	05/30/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2321092
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/23	05/30/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.5 %	70-130		05/26/23	05/30/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2322014
Diesel Range Organics (C10-C28)	ND	25.0	1	05/30/23	05/30/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/30/23	05/30/23	
<i>Surrogate: n-Nonane</i>						
	102 %	50-200		05/30/23	05/30/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2322005
Chloride	ND	20.0	1	05/30/23	05/31/23	



## Sample Data

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

Project Name: Mule 23-11 Fed Com 822H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
6/1/2023 2:54:47PM

## SW1

## E305177-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2321092	
Benzene	ND	0.0250	1	05/26/23	05/30/23	
Ethylbenzene	ND	0.0250	1	05/26/23	05/30/23	
Toluene	ND	0.0250	1	05/26/23	05/30/23	
o-Xylene	ND	0.0250	1	05/26/23	05/30/23	
p,m-Xylene	ND	0.0500	1	05/26/23	05/30/23	
Total Xylenes	ND	0.0250	1	05/26/23	05/30/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.9 %	70-130		05/26/23	05/30/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2321092	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/23	05/30/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.1 %	70-130		05/26/23	05/30/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: JL		Batch: 2322014	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/30/23	05/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/30/23	05/31/23	
<i>Surrogate: n-Nonane</i>						
	99.0 %	50-200		05/30/23	05/31/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2322005	
Chloride	ND	20.0	1	05/30/23	05/31/23	



## Sample Data

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

Project Name: Mule 23-11 Fed Com 822H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
6/1/2023 2:54:47PM

## SW2

## E305177-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2321092
Benzene	ND	0.0250	1	05/26/23	05/30/23	
Ethylbenzene	ND	0.0250	1	05/26/23	05/30/23	
Toluene	ND	0.0250	1	05/26/23	05/30/23	
o-Xylene	ND	0.0250	1	05/26/23	05/30/23	
p,m-Xylene	ND	0.0500	1	05/26/23	05/30/23	
Total Xylenes	ND	0.0250	1	05/26/23	05/30/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.1 %	70-130		05/26/23	05/30/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2321092
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/23	05/30/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.2 %	70-130		05/26/23	05/30/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2322014
Diesel Range Organics (C10-C28)	ND	25.0	1	05/30/23	05/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/30/23	05/31/23	
<i>Surrogate: n-Nonane</i>						
	99.7 %	50-200		05/30/23	05/31/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2322005
Chloride	ND	20.0	1	05/30/23	06/01/23	



## Sample Data

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

Project Name: Mule 23-11 Fed Com 822H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
6/1/2023 2:54:47PM

## SW3

## E305177-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2321092	
Benzene	ND	0.0250	1	05/26/23	05/30/23	
Ethylbenzene	ND	0.0250	1	05/26/23	05/30/23	
Toluene	ND	0.0250	1	05/26/23	05/30/23	
o-Xylene	ND	0.0250	1	05/26/23	05/30/23	
p,m-Xylene	ND	0.0500	1	05/26/23	05/30/23	
Total Xylenes	ND	0.0250	1	05/26/23	05/30/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.0 %	70-130		05/26/23	05/30/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2321092	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/23	05/30/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.4 %	70-130		05/26/23	05/30/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: JL		Batch: 2322014	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/30/23	05/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/30/23	05/31/23	
<i>Surrogate: n-Nonane</i>						
	99.7 %	50-200		05/30/23	05/31/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2322005	
Chloride	ND	20.0	1	05/30/23	06/01/23	





## Sample Data

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

Project Name: Mule 23-11 Fed Com 822H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
6/1/2023 2:54:47PM

## SW4

## E305177-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2321092	
Benzene	ND	0.0250	1	05/26/23	05/30/23	
Ethylbenzene	ND	0.0250	1	05/26/23	05/30/23	
Toluene	ND	0.0250	1	05/26/23	05/30/23	
o-Xylene	ND	0.0250	1	05/26/23	05/30/23	
p,m-Xylene	ND	0.0500	1	05/26/23	05/30/23	
Total Xylenes	ND	0.0250	1	05/26/23	05/30/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.6 %	70-130		05/26/23	05/30/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2321092	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/23	05/30/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.1 %	70-130		05/26/23	05/30/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: JL		Batch: 2322014	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/30/23	05/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/30/23	05/31/23	
<i>Surrogate: n-Nonane</i>						
	83.7 %	50-200		05/30/23	05/31/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2322005	
Chloride	ND	20.0	1	05/30/23	06/01/23	



## Sample Data

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

Project Name: Mule 23-11 Fed Com 822H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
6/1/2023 2:54:47PM

## SW5

## E305177-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2321092	
Benzene	ND	0.0250	1	05/26/23	05/30/23	
Ethylbenzene	ND	0.0250	1	05/26/23	05/30/23	
Toluene	ND	0.0250	1	05/26/23	05/30/23	
o-Xylene	ND	0.0250	1	05/26/23	05/30/23	
p,m-Xylene	ND	0.0500	1	05/26/23	05/30/23	
Total Xylenes	ND	0.0250	1	05/26/23	05/30/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.1 %	70-130		05/26/23	05/30/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2321092	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/23	05/30/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.4 %	70-130		05/26/23	05/30/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: JL		Batch: 2322014	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/30/23	05/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/30/23	05/31/23	
<i>Surrogate: n-Nonane</i>						
	97.5 %	50-200		05/30/23	05/31/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2322005	
Chloride	ND	20.0	1	05/30/23	06/01/23	



## Sample Data

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

Project Name: Mule 23-11 Fed Com 822H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
6/1/2023 2:54:47PM

## SW6

## E305177-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2321092
Benzene	ND	0.0250	1	05/26/23	05/30/23	
Ethylbenzene	ND	0.0250	1	05/26/23	05/30/23	
Toluene	ND	0.0250	1	05/26/23	05/30/23	
o-Xylene	ND	0.0250	1	05/26/23	05/30/23	
p,m-Xylene	ND	0.0500	1	05/26/23	05/30/23	
Total Xylenes	ND	0.0250	1	05/26/23	05/30/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.6 %	70-130		05/26/23	05/30/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2321092
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/23	05/30/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.2 %	70-130		05/26/23	05/30/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2322014
Diesel Range Organics (C10-C28)	ND	25.0	1	05/30/23	05/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/30/23	05/31/23	
<i>Surrogate: n-Nonane</i>						
	88.7 %	50-200		05/30/23	05/31/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2322005
Chloride	ND	20.0	1	05/30/23	06/01/23	



## Sample Data

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

Project Name: Mule 23-11 Fed Com 822H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
6/1/2023 2:54:47PM

## SW7

## E305177-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2321092
Benzene	ND	0.0250	1	05/26/23	05/30/23	
Ethylbenzene	ND	0.0250	1	05/26/23	05/30/23	
Toluene	ND	0.0250	1	05/26/23	05/30/23	
o-Xylene	ND	0.0250	1	05/26/23	05/30/23	
p,m-Xylene	ND	0.0500	1	05/26/23	05/30/23	
Total Xylenes	ND	0.0250	1	05/26/23	05/30/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.6 %	70-130		05/26/23	05/30/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2321092
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/23	05/30/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.9 %	70-130		05/26/23	05/30/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2322014
Diesel Range Organics (C10-C28)	ND	25.0	1	05/30/23	05/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/30/23	05/31/23	
<i>Surrogate: n-Nonane</i>						
	97.6 %	50-200		05/30/23	05/31/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2322005
Chloride	ND	20.0	1	05/30/23	06/01/23	



## Sample Data

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

Project Name: Mule 23-11 Fed Com 822H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
6/1/2023 2:54:47PM

## SW8

## E305177-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2321092	
Benzene	ND	0.0250	1	05/26/23	05/30/23	
Ethylbenzene	ND	0.0250	1	05/26/23	05/30/23	
Toluene	ND	0.0250	1	05/26/23	05/30/23	
o-Xylene	ND	0.0250	1	05/26/23	05/30/23	
p,m-Xylene	ND	0.0500	1	05/26/23	05/30/23	
Total Xylenes	ND	0.0250	1	05/26/23	05/30/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.5 %	70-130		05/26/23	05/30/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2321092	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/23	05/30/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.5 %	70-130		05/26/23	05/30/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: JL		Batch: 2322014	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/30/23	05/31/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/30/23	05/31/23	
<i>Surrogate: n-Nonane</i>						
	102 %	50-200		05/30/23	05/31/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2322005	
Chloride	ND	20.0	1	05/30/23	06/01/23	





## Sample Data

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

Project Name: Mule 23-11 Fed Com 822H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
6/1/2023 2:54:47PM

## SW9

## E305177-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2321085
Benzene	ND	0.0250	1	05/26/23	05/27/23	
Ethylbenzene	ND	0.0250	1	05/26/23	05/27/23	
Toluene	ND	0.0250	1	05/26/23	05/27/23	
o-Xylene	ND	0.0250	1	05/26/23	05/27/23	
p,m-Xylene	ND	0.0500	1	05/26/23	05/27/23	
Total Xylenes	ND	0.0250	1	05/26/23	05/27/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	05/26/23	05/27/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2321085
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/23	05/27/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		90.9 %	70-130	05/26/23	05/27/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2322016
Diesel Range Organics (C10-C28)	ND	25.0	1	05/30/23	06/01/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/30/23	06/01/23	
<i>Surrogate: n-Nonane</i>						
		102 %	50-200	05/30/23	06/01/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2322003
Chloride	ND	20.0	1	05/30/23	05/30/23	



## Sample Data

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

Project Name: Mule 23-11 Fed Com 822H  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
6/1/2023 2:54:47PM

## SW10

## E305177-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2321085
Benzene	ND	0.0250	1	05/26/23	05/27/23	
Ethylbenzene	ND	0.0250	1	05/26/23	05/27/23	
Toluene	ND	0.0250	1	05/26/23	05/27/23	
o-Xylene	ND	0.0250	1	05/26/23	05/27/23	
p,m-Xylene	ND	0.0500	1	05/26/23	05/27/23	
Total Xylenes	ND	0.0250	1	05/26/23	05/27/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	05/26/23	05/27/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2321085
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/26/23	05/27/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		90.4 %	70-130	05/26/23	05/27/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2322016
Diesel Range Organics (C10-C28)	ND	25.0	1	05/30/23	06/01/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/30/23	06/01/23	
<i>Surrogate: n-Nonane</i>						
		98.0 %	50-200	05/30/23	06/01/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2322003
Chloride	ND	20.0	1	05/30/23	05/30/23	



## QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Mule 23-11 Fed Com 822H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	6/1/2023 2:54:47PM

## Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2321085-BLK1)

Prepared: 05/26/23 Analyzed: 05/26/23

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	7.95		8.00		99.4	70-130			

## LCS (2321085-BS1)

Prepared: 05/26/23 Analyzed: 05/26/23

Benzene	4.36	0.0250	5.00		87.2	70-130			
Ethylbenzene	4.54	0.0250	5.00		90.7	70-130			
Toluene	4.69	0.0250	5.00		93.8	70-130			
o-Xylene	4.79	0.0250	5.00		95.8	70-130			
p,m-Xylene	9.39	0.0500	10.0		93.9	70-130			
Total Xylenes	14.2	0.0250	15.0		94.5	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.03		8.00		100	70-130			

## Matrix Spike (2321085-MS1)

Source: E305162-02

Prepared: 05/26/23 Analyzed: 05/26/23

Benzene	4.44	0.0250	5.00	ND	88.7	54-133			
Ethylbenzene	4.61	0.0250	5.00	ND	92.2	61-133			
Toluene	4.77	0.0250	5.00	ND	95.4	61-130			
o-Xylene	4.87	0.0250	5.00	ND	97.4	63-131			
p,m-Xylene	9.53	0.0500	10.0	ND	95.3	63-131			
Total Xylenes	14.4	0.0250	15.0	ND	96.0	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.96		8.00		99.5	70-130			

## Matrix Spike Dup (2321085-MSD1)

Source: E305162-02

Prepared: 05/26/23 Analyzed: 05/26/23

Benzene	3.98	0.0250	5.00	ND	79.6	54-133	10.9	20	
Ethylbenzene	4.14	0.0250	5.00	ND	82.7	61-133	10.9	20	
Toluene	4.28	0.0250	5.00	ND	85.6	61-130	10.8	20	
o-Xylene	4.41	0.0250	5.00	ND	88.1	63-131	10.0	20	
p,m-Xylene	8.58	0.0500	10.0	ND	85.8	63-131	10.6	20	
Total Xylenes	13.0	0.0250	15.0	ND	86.5	63-131	10.4	20	
Surrogate: 4-Bromochlorobenzene-PID	7.96		8.00		99.5	70-130			



## QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Mule 23-11 Fed Com 822H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	6/1/2023 2:54:47PM

## Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2321092-BLK1)

Prepared: 05/26/23 Analyzed: 05/30/23

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	7.80		8.00		97.5	70-130			

## LCS (2321092-BS1)

Prepared: 05/26/23 Analyzed: 05/30/23

Benzene	4.14	0.0250	5.00		82.9	70-130			
Ethylbenzene	4.43	0.0250	5.00		88.7	70-130			
Toluene	4.54	0.0250	5.00		90.8	70-130			
o-Xylene	4.70	0.0250	5.00		94.1	70-130			
p,m-Xylene	9.20	0.0500	10.0		92.0	70-130			
Total Xylenes	13.9	0.0250	15.0		92.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.92		8.00		99.0	70-130			

## Matrix Spike (2321092-MS1)

Source: E305177-02

Prepared: 05/26/23 Analyzed: 05/30/23

Benzene	4.32	0.0250	5.00	ND	86.4	54-133			
Ethylbenzene	4.62	0.0250	5.00	ND	92.4	61-133			
Toluene	4.74	0.0250	5.00	ND	94.7	61-130			
o-Xylene	4.89	0.0250	5.00	ND	97.9	63-131			
p,m-Xylene	9.57	0.0500	10.0	ND	95.7	63-131			
Total Xylenes	14.5	0.0250	15.0	ND	96.4	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.94		8.00		99.2	70-130			

## Matrix Spike Dup (2321092-MSD1)

Source: E305177-02

Prepared: 05/26/23 Analyzed: 05/30/23

Benzene	4.00	0.0250	5.00	ND	79.9	54-133	7.73	20	
Ethylbenzene	4.27	0.0250	5.00	ND	85.5	61-133	7.75	20	
Toluene	4.38	0.0250	5.00	ND	87.5	61-130	7.87	20	
o-Xylene	4.54	0.0250	5.00	ND	90.9	63-131	7.41	20	
p,m-Xylene	8.86	0.0500	10.0	ND	88.6	63-131	7.68	20	
Total Xylenes	13.4	0.0250	15.0	ND	89.4	63-131	7.59	20	
Surrogate: 4-Bromochlorobenzene-PID	7.85		8.00		98.1	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Mule 23-11 Fed Com 822H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	6/1/2023 2:54:47PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2321085-BLK1) Prepared: 05/26/23 Analyzed: 05/26/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.14		8.00		89.2	70-130			

LCS (2321085-BS2) Prepared: 05/26/23 Analyzed: 05/26/23

Gasoline Range Organics (C6-C10)	53.1	20.0	50.0		106	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.23		8.00		90.4	70-130			

Matrix Spike (2321085-MS2) Source: E305162-02 Prepared: 05/26/23 Analyzed: 05/26/23

Gasoline Range Organics (C6-C10)	50.9	20.0	50.0	ND	102	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.15		8.00		89.4	70-130			

Matrix Spike Dup (2321085-MSD2) Source: E305162-02 Prepared: 05/26/23 Analyzed: 05/26/23

Gasoline Range Organics (C6-C10)	48.5	20.0	50.0	ND	97.0	70-130	4.96	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.17		8.00		89.6	70-130			





QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Mule 23-11 Fed Com 822H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	6/1/2023 2:54:47PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2321092-BLK1) Prepared: 05/26/23 Analyzed: 05/30/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.29		8.00		91.1	70-130			

LCS (2321092-BS2) Prepared: 05/26/23 Analyzed: 05/30/23

Gasoline Range Organics (C6-C10)	52.6	20.0	50.0		105	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.35		8.00		91.9	70-130			

Matrix Spike (2321092-MS2) Source: E305177-02 Prepared: 05/26/23 Analyzed: 05/30/23

Gasoline Range Organics (C6-C10)	52.2	20.0	50.0	ND	104	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.32		8.00		91.5	70-130			

Matrix Spike Dup (2321092-MSD2) Source: E305177-02 Prepared: 05/26/23 Analyzed: 05/30/23

Gasoline Range Organics (C6-C10)	52.3	20.0	50.0	ND	105	70-130	0.0707	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.34		8.00		91.8	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Mule 23-11 Fed Com 822H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	6/1/2023 2:54:47PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2322014-BLK1)					Prepared: 05/30/23 Analyzed: 05/30/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	45.8		50.0		91.5	50-200			

LCS (2322014-BS1)					Prepared: 05/30/23 Analyzed: 05/30/23				
Diesel Range Organics (C10-C28)	238	25.0	250		95.2	38-132			
Surrogate: n-Nonane	46.9		50.0		93.8	50-200			

Matrix Spike (2322014-MS1)					Source: E305177-12		Prepared: 05/30/23 Analyzed: 05/30/23		
Diesel Range Organics (C10-C28)	243	25.0	250	ND	97.4	38-132			
Surrogate: n-Nonane	44.7		50.0		89.3	50-200			

Matrix Spike Dup (2322014-MSD1)					Source: E305177-12		Prepared: 05/30/23 Analyzed: 05/30/23		
Diesel Range Organics (C10-C28)	241	25.0	250	ND	96.4	38-132	1.00	20	
Surrogate: n-Nonane	47.3		50.0		94.6	50-200			



## QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Mule 23-11 Fed Com 822H	<b>Reported:</b>
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	6/1/2023 2:54:47PM

## Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2322016-BLK1)

Prepared: 05/30/23 Analyzed: 05/31/23

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	50.5		50.0		101	50-200			

## LCS (2322016-BS1)

Prepared: 05/30/23 Analyzed: 05/31/23

Diesel Range Organics (C10-C28)	242	25.0	250		97.0	38-132			
Surrogate: <i>n</i> -Nonane	43.8		50.0		87.7	50-200			

## Matrix Spike (2322016-MS1)

Source: E305190-21

Prepared: 05/30/23 Analyzed: 05/31/23

Diesel Range Organics (C10-C28)	252	25.0	250	ND	101	38-132			
Surrogate: <i>n</i> -Nonane	44.8		50.0		89.7	50-200			

## Matrix Spike Dup (2322016-MSD1)

Source: E305190-21

Prepared: 05/30/23 Analyzed: 05/31/23

Diesel Range Organics (C10-C28)	244	25.0	250	ND	97.4	38-132	3.54	20	
Surrogate: <i>n</i> -Nonane	45.1		50.0		90.3	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Mule 23-11 Fed Com 822H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	6/1/2023 2:54:47PM

Anions by EPA 300.0/9056A

Analyst: BA

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

Blank (2322003-BLK1)					Prepared: 05/30/23 Analyzed: 05/30/23				
Chloride	ND	20.0							
LCS (2322003-BS1)					Prepared: 05/30/23 Analyzed: 05/30/23				
Chloride	249	20.0	250		99.5	90-110			
Matrix Spike (2322003-MS1)					Source: E305160-01		Prepared: 05/30/23 Analyzed: 05/30/23		
Chloride	314	20.0	250	56.0	103	80-120			
Matrix Spike Dup (2322003-MSD1)					Source: E305160-01		Prepared: 05/30/23 Analyzed: 05/30/23		
Chloride	311	20.0	250	56.0	102	80-120	0.719	20	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Mule 23-11 Fed Com 822H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	6/1/2023 2:54:47PM

Anions by EPA 300.0/9056A

Analyst: BA

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

Blank (2322005-BLK1)					Prepared: 05/30/23 Analyzed: 05/31/23				
Chloride	ND	20.0							
LCS (2322005-BS1)					Prepared: 05/30/23 Analyzed: 06/01/23				
Chloride	248	20.0	250		99.1	90-110			
Matrix Spike (2322005-MS1)					Source: E305177-01		Prepared: 05/30/23 Analyzed: 06/01/23		
Chloride	249	20.0	250	ND	99.6	80-120			
Matrix Spike Dup (2322005-MSD1)					Source: E305177-01		Prepared: 05/30/23 Analyzed: 06/01/23		
Chloride	250	20.0	250	ND	99.9	80-120	0.294	20	

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





Definitions and Notes

Pima Environmental Services-Carlsbad	Project Name:	Mule 23-11 Fed Com 822H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	06/01/23 14:54

- 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.



## Chain of Custody





## Project Information

## Chain of Custody

Page 4 of 5

Client: Pima Environmental Services		Bill To		Lab Use Only		TAT		EPA Program					
Project: <u>Male 23-11 Fed. Com 822H</u>		Attention: <u>Devon</u>		Lab WO# <u>E305177</u>		Job Number <u>0058-0007</u>		1D	2D	3D	Standard	CWA	SDWA
Project Manager: Tom Bynum		Address:											
Address: 5614 N. Lovington Hwy.		City, State, Zip											RCRA
City, State, Zip <u>Hobbs, NM, 88240</u>		Phone:											
Phone: 580-748-1613		Email:											
Email: <u>tom@pimaoil.com</u>		Pima Project # <u>310</u>											
Report due by:													

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks
12:30	5/24/23	S		S12-3'	11							X		
12:35				S12-4'	12									
12:40				SW1	13									
12:45				SW2	14									
12:50				SW3	15									
1:00				SW4	16									
1:05				SW5	17									
1:10				SW6	18									
1:15				SW7	19									
1:20				SW8	20									

## Additional Instructions:

WO#XX-146919. 01-DEP

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

Sampled by: AE

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only Received on ice: <u>Y</u> / N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
<u>Karine Adams</u>	5/25/23	5:00	<u>Michelle Cuyk</u>	5-25-23	1700	
<u>Michelle Cuyk</u>	5-25-23	1915	<u>Andrew m...</u>	5-25-23	1930	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
<u>Andrew m...</u>	5-26-23	0100	<u>Auth man</u>	5/26/23	8:30	

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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



## Chain of Custody



## Envirotech Analytical Laboratory

Printed: 5/26/2023 12:52:01PM

## 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:	05/26/23 08:30	Work Order ID:	E305177
Phone:	(575) 631-6977	Date Logged In:	05/26/23 09:46	Logged In By:	Caitlin Mars
Email:	tom@pimaoil.com	Due Date:	06/02/23 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/Resolution

Project Mule 23-11 Fed Com 822H has been separated into 2 reports due to sample volume. Workorders are as follows: E305176 & E305177.

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

20. Were field sample labels filled out with the minimum information:
  - Sample ID? Yes
  - Date/Time Collected? Yes
  - Collectors name? Yes

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.



Report to:  
Gio Gomez



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Pima Environmental Services-Carlsbad

Project Name: Mule 23-11 Fed Com 822H

Work Order: E406118

Job Number: 01058-0007

Received: 6/13/2024

Revision: 2

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
6/18/24

5796 U.S. Hwy 64  
Farmington, NM 87401

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



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.  
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.  
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Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.  
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 6/18/24

Gio Gomez  
PO Box 247  
Plains, TX 79355-0247



Project Name: Mule 23-11 Fed Com 822H  
Workorder: E406118  
Date Received: 6/13/2024 7:00:09AM

Gio Gomez,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/13/2024 7:00:09AM, under the Project Name: Mule 23-11 Fed Com 822H.

The analytical test results summarized in this report with the Project Name: Mule 23-11 Fed Com 822H apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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

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## Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	Mule 23-11 Fed Com 822H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	06/18/24 16:48

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S1-Surface	E406118-01A	Soil	06/08/24	06/13/24	Glass Jar, 2 oz.
S2-Surface	E406118-02A	Soil	06/08/24	06/13/24	Glass Jar, 2 oz.
S2-1'	E406118-03A	Soil	06/08/24	06/13/24	Glass Jar, 2 oz.
S2-2'	E406118-04A	Soil	06/08/24	06/13/24	Glass Jar, 2 oz.
S2-3'	E406118-05A	Soil	06/08/24	06/13/24	Glass Jar, 2 oz.
S2-4'	E406118-06A	Soil	06/08/24	06/13/24	Glass Jar, 2 oz.
S3-Surface	E406118-07A	Soil	06/08/24	06/13/24	Glass Jar, 2 oz.
S4-Surface	E406118-08A	Soil	06/08/24	06/13/24	Glass Jar, 2 oz.
S5-Surface	E406118-09A	Soil	06/08/24	06/13/24	Glass Jar, 2 oz.
S6-Surface	E406118-10A	Soil	06/08/24	06/13/24	Glass Jar, 2 oz.
S6-1'	E406118-11A	Soil	06/08/24	06/13/24	Glass Jar, 2 oz.
S6-2'	E406118-12A	Soil	06/08/24	06/13/24	Glass Jar, 2 oz.
S6-3'	E406118-13A	Soil	06/08/24	06/13/24	Glass Jar, 2 oz.
S6-4'	E406118-14A	Soil	06/08/24	06/13/24	Glass Jar, 2 oz.
S7-Surface	E406118-15A	Soil	06/08/24	06/13/24	Glass Jar, 2 oz.
S8-Surface	E406118-16A	Soil	06/08/24	06/13/24	Glass Jar, 2 oz.
S9-Surface	E406118-17A	Soil	06/08/24	06/13/24	Glass Jar, 2 oz.
S10-Surface	E406118-18A	Soil	06/08/24	06/13/24	Glass Jar, 2 oz.
S10-1'	E406118-19A	Soil	06/08/24	06/13/24	Glass Jar, 2 oz.
S10-2'	E406118-20A	Soil	06/08/24	06/13/24	Glass Jar, 2 oz.
S10-3'	E406118-21A	Soil	06/08/24	06/13/24	Glass Jar, 2 oz.
S10-4'	E406118-22A	Soil	06/08/24	06/13/24	Glass Jar, 2 oz.
S11-Surface	E406118-23A	Soil	06/08/24	06/13/24	Glass Jar, 2 oz.
S11-1'	E406118-24A	Soil	06/08/24	06/13/24	Glass Jar, 2 oz.
S11-2'	E406118-25A	Soil	06/08/24	06/13/24	Glass Jar, 2 oz.
S11-3'	E406118-26A	Soil	06/08/24	06/13/24	Glass Jar, 2 oz.
S11-4'	E406118-27A	Soil	06/08/24	06/13/24	Glass Jar, 2 oz.
S12-Surface	E406118-28A	Soil	06/08/24	06/13/24	Glass Jar, 2 oz.
BG1	E406118-29A	Soil	06/08/24	06/13/24	Glass Jar, 2 oz.





## Sample Data

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

Project Name: Mule 23-11 Fed Com 822H  
Project Number: 01058-0007  
Project Manager: Gio Gomez

**Reported:**  
6/18/2024 4:48:27PM

### S1-Surface

**E406118-01**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2424078	
Benzene	ND	0.0250	1	06/13/24	06/14/24	
Ethylbenzene	ND	0.0250	1	06/13/24	06/14/24	
Toluene	ND	0.0250	1	06/13/24	06/14/24	
o-Xylene	ND	0.0250	1	06/13/24	06/14/24	
p,m-Xylene	ND	0.0500	1	06/13/24	06/14/24	
Total Xylenes	ND	0.0250	1	06/13/24	06/14/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		92.1 %	70-130	06/13/24	06/14/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2424078	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/13/24	06/14/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		96.3 %	70-130	06/13/24	06/14/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2424082	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/13/24	06/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/13/24	06/17/24	
<i>Surrogate: n-Nonane</i>						
		115 %	50-200	06/13/24	06/17/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: WF		Batch: 2424090	
Chloride	ND	20.0	1	06/13/24	06/14/24	



## Sample Data

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

Project Name: Mule 23-11 Fed Com 822H  
Project Number: 01058-0007  
Project Manager: Gio Gomez

**Reported:**  
6/18/2024 4:48:27PM

## S2-Surface

## E406118-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2424078
Benzene	ND	0.0250	1	06/13/24	06/14/24	
Ethylbenzene	ND	0.0250	1	06/13/24	06/14/24	
Toluene	ND	0.0250	1	06/13/24	06/14/24	
o-Xylene	ND	0.0250	1	06/13/24	06/14/24	
p,m-Xylene	ND	0.0500	1	06/13/24	06/14/24	
Total Xylenes	ND	0.0250	1	06/13/24	06/14/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.6 %	70-130		06/13/24	06/14/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2424078
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/13/24	06/14/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.8 %	70-130		06/13/24	06/14/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2424082
Diesel Range Organics (C10-C28)	ND	25.0	1	06/13/24	06/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/13/24	06/17/24	
<i>Surrogate: n-Nonane</i>						
	117 %	50-200		06/13/24	06/17/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: WF		Batch: 2424090
Chloride	ND	20.0	1	06/13/24	06/14/24	



## Sample Data

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

Project Name: Mule 23-11 Fed Com 822H  
Project Number: 01058-0007  
Project Manager: Gio Gomez

**Reported:**  
6/18/2024 4:48:27PM

S2-1'

E406118-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2424078
Benzene	ND	0.0250	1	06/13/24	06/14/24	
Ethylbenzene	ND	0.0250	1	06/13/24	06/14/24	
Toluene	ND	0.0250	1	06/13/24	06/14/24	
o-Xylene	ND	0.0250	1	06/13/24	06/14/24	
p,m-Xylene	ND	0.0500	1	06/13/24	06/14/24	
Total Xylenes	ND	0.0250	1	06/13/24	06/14/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.0 %	70-130		06/13/24	06/14/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2424078
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/13/24	06/14/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.3 %	70-130		06/13/24	06/14/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2424082
Diesel Range Organics (C10-C28)	ND	25.0	1	06/13/24	06/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/13/24	06/17/24	
<i>Surrogate: n-Nonane</i>						
	111 %	50-200		06/13/24	06/17/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: WF		Batch: 2424090
Chloride	ND	20.0	1	06/13/24	06/14/24	



## Sample Data

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

Project Name: Mule 23-11 Fed Com 822H  
Project Number: 01058-0007  
Project Manager: Gio Gomez

**Reported:**  
6/18/2024 4:48:27PM

S2-2'

E406118-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2424078
Benzene	ND	0.0250	1	06/13/24	06/14/24	
Ethylbenzene	ND	0.0250	1	06/13/24	06/14/24	
Toluene	ND	0.0250	1	06/13/24	06/14/24	
o-Xylene	ND	0.0250	1	06/13/24	06/14/24	
p,m-Xylene	ND	0.0500	1	06/13/24	06/14/24	
Total Xylenes	ND	0.0250	1	06/13/24	06/14/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.7 %	70-130		06/13/24	06/14/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2424078
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/13/24	06/14/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	97.0 %	70-130		06/13/24	06/14/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2424082
Diesel Range Organics (C10-C28)	ND	25.0	1	06/13/24	06/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/13/24	06/17/24	
<i>Surrogate: n-Nonane</i>						
	110 %	50-200		06/13/24	06/17/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: WF		Batch: 2424090
Chloride	ND	20.0	1	06/13/24	06/14/24	



## Sample Data

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

Project Name: Mule 23-11 Fed Com 822H  
Project Number: 01058-0007  
Project Manager: Gio Gomez

**Reported:**  
6/18/2024 4:48:27PM

S2-3'

E406118-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2424078	
Benzene	ND	0.0250	1	06/13/24	06/14/24	
Ethylbenzene	ND	0.0250	1	06/13/24	06/14/24	
Toluene	ND	0.0250	1	06/13/24	06/14/24	
o-Xylene	ND	0.0250	1	06/13/24	06/14/24	
p,m-Xylene	ND	0.0500	1	06/13/24	06/14/24	
Total Xylenes	ND	0.0250	1	06/13/24	06/14/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.1 %	70-130		06/13/24	06/14/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2424078	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/13/24	06/14/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.4 %	70-130		06/13/24	06/14/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2424082	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/13/24	06/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/13/24	06/17/24	
<i>Surrogate: n-Nonane</i>						
	108 %	50-200		06/13/24	06/17/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: WF		Batch: 2424090	
Chloride	ND	20.0	1	06/13/24	06/14/24	





## Sample Data

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

Project Name: Mule 23-11 Fed Com 822H  
Project Number: 01058-0007  
Project Manager: Gio Gomez

**Reported:**  
6/18/2024 4:48:27PM

S2-4'

E406118-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2424078
Benzene	ND	0.0250	1	06/13/24	06/14/24	
Ethylbenzene	ND	0.0250	1	06/13/24	06/14/24	
Toluene	ND	0.0250	1	06/13/24	06/14/24	
o-Xylene	ND	0.0250	1	06/13/24	06/14/24	
p,m-Xylene	ND	0.0500	1	06/13/24	06/14/24	
Total Xylenes	ND	0.0250	1	06/13/24	06/14/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.0 %	70-130		06/13/24	06/14/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2424078
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/13/24	06/14/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.6 %	70-130		06/13/24	06/14/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2424082
Diesel Range Organics (C10-C28)	ND	25.0	1	06/13/24	06/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/13/24	06/17/24	
<i>Surrogate: n-Nonane</i>						
	109 %	50-200		06/13/24	06/17/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: WF		Batch: 2424090
Chloride	ND	20.0	1	06/13/24	06/14/24	



## Sample Data

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

Project Name: Mule 23-11 Fed Com 822H  
Project Number: 01058-0007  
Project Manager: Gio Gomez

**Reported:**  
6/18/2024 4:48:27PM

## S3-Surface

E406118-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2424078
Benzene	ND	0.0250	1	06/13/24	06/14/24	
Ethylbenzene	ND	0.0250	1	06/13/24	06/14/24	
Toluene	ND	0.0250	1	06/13/24	06/14/24	
o-Xylene	ND	0.0250	1	06/13/24	06/14/24	
p,m-Xylene	ND	0.0500	1	06/13/24	06/14/24	
Total Xylenes	ND	0.0250	1	06/13/24	06/14/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.4 %	70-130		06/13/24	06/14/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2424078
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/13/24	06/14/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.6 %	70-130		06/13/24	06/14/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2424082
Diesel Range Organics (C10-C28)	ND	25.0	1	06/13/24	06/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/13/24	06/17/24	
<i>Surrogate: n-Nonane</i>						
	112 %	50-200		06/13/24	06/17/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: WF		Batch: 2424090
Chloride	74.4	20.0	1	06/13/24	06/14/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Mule 23-11 Fed Com 822H	<b>Reported:</b> 6/18/2024 4:48:27PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

S4-Surface  
E406118-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2424078	
Benzene	ND	0.0250	1	06/13/24	06/14/24	
Ethylbenzene	ND	0.0250	1	06/13/24	06/14/24	
Toluene	ND	0.0250	1	06/13/24	06/14/24	
o-Xylene	ND	0.0250	1	06/13/24	06/14/24	
p,m-Xylene	ND	0.0500	1	06/13/24	06/14/24	
Total Xylenes	ND	0.0250	1	06/13/24	06/14/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.4 %	70-130		06/13/24	06/14/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2424078	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/13/24	06/14/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.7 %	70-130		06/13/24	06/14/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2424082	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/13/24	06/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/13/24	06/17/24	
<i>Surrogate: n-Nonane</i>						
	113 %	50-200		06/13/24	06/17/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: WF		Batch: 2424090	
Chloride	ND	20.0	1	06/13/24	06/14/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Mule 23-11 Fed Com 822H	<b>Reported:</b> 6/18/2024 4:48:27PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

S5-Surface  
E406118-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2424078
Benzene	ND	0.0250	1	06/13/24	06/14/24	
Ethylbenzene	ND	0.0250	1	06/13/24	06/14/24	
Toluene	ND	0.0250	1	06/13/24	06/14/24	
o-Xylene	ND	0.0250	1	06/13/24	06/14/24	
p,m-Xylene	ND	0.0500	1	06/13/24	06/14/24	
Total Xylenes	ND	0.0250	1	06/13/24	06/14/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.7 %	70-130		06/13/24	06/14/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2424078
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/13/24	06/14/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.7 %	70-130		06/13/24	06/14/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2424082
Diesel Range Organics (C10-C28)	ND	25.0	1	06/13/24	06/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/13/24	06/17/24	
<i>Surrogate: n-Nonane</i>						
	113 %	50-200		06/13/24	06/17/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: WF		Batch: 2424090
Chloride	ND	20.0	1	06/13/24	06/14/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Mule 23-11 Fed Com 822H	<b>Reported:</b> 6/18/2024 4:48:27PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

S6-Surface  
E406118-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2424078
Benzene	ND	0.0250	1	06/13/24	06/14/24	
Ethylbenzene	ND	0.0250	1	06/13/24	06/14/24	
Toluene	ND	0.0250	1	06/13/24	06/14/24	
o-Xylene	ND	0.0250	1	06/13/24	06/14/24	
p,m-Xylene	ND	0.0500	1	06/13/24	06/14/24	
Total Xylenes	ND	0.0250	1	06/13/24	06/14/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.8 %	70-130		06/13/24	06/14/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2424078
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/13/24	06/14/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.6 %	70-130		06/13/24	06/14/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2424082
Diesel Range Organics (C10-C28)	ND	25.0	1	06/13/24	06/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/13/24	06/17/24	
<i>Surrogate: n-Nonane</i>						
	113 %	50-200		06/13/24	06/17/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: WF		Batch: 2424090
Chloride	ND	20.0	1	06/13/24	06/14/24	





## Sample Data

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

Project Name: Mule 23-11 Fed Com 822H  
Project Number: 01058-0007  
Project Manager: Gio Gomez

**Reported:**  
6/18/2024 4:48:27PM

S6-1'

E406118-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2424078
Benzene	ND	0.0250	1	06/13/24	06/14/24	
Ethylbenzene	ND	0.0250	1	06/13/24	06/14/24	
Toluene	ND	0.0250	1	06/13/24	06/14/24	
o-Xylene	ND	0.0250	1	06/13/24	06/14/24	
p,m-Xylene	ND	0.0500	1	06/13/24	06/14/24	
Total Xylenes	ND	0.0250	1	06/13/24	06/14/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		94.1 %	70-130	06/13/24	06/14/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2424078
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/13/24	06/14/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		96.8 %	70-130	06/13/24	06/14/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2424082
Diesel Range Organics (C10-C28)	ND	25.0	1	06/13/24	06/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/13/24	06/17/24	
<i>Surrogate: n-Nonane</i>						
		115 %	50-200	06/13/24	06/17/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: WF		Batch: 2424090
Chloride	ND	20.0	1	06/13/24	06/14/24	



## Sample Data

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

Project Name: Mule 23-11 Fed Com 822H  
Project Number: 01058-0007  
Project Manager: Gio Gomez

**Reported:**  
6/18/2024 4:48:27PM

S6-2'

E406118-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2424078
Benzene	ND	0.0250	1	06/13/24	06/14/24	
Ethylbenzene	ND	0.0250	1	06/13/24	06/14/24	
Toluene	ND	0.0250	1	06/13/24	06/14/24	
o-Xylene	ND	0.0250	1	06/13/24	06/14/24	
p,m-Xylene	ND	0.0500	1	06/13/24	06/14/24	
Total Xylenes	ND	0.0250	1	06/13/24	06/14/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.4 %	70-130		06/13/24	06/14/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2424078
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/13/24	06/14/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.0 %	70-130		06/13/24	06/14/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2424082
Diesel Range Organics (C10-C28)	ND	25.0	1	06/13/24	06/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/13/24	06/17/24	
<i>Surrogate: n-Nonane</i>						
	107 %	50-200		06/13/24	06/17/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: WF		Batch: 2424090
Chloride	ND	20.0	1	06/13/24	06/14/24	



## Sample Data

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

Project Name: Mule 23-11 Fed Com 822H  
Project Number: 01058-0007  
Project Manager: Gio Gomez

**Reported:**  
6/18/2024 4:48:27PM

S6-3'

E406118-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2424078
Benzene	ND	0.0250	1	06/13/24	06/14/24	
Ethylbenzene	ND	0.0250	1	06/13/24	06/14/24	
Toluene	ND	0.0250	1	06/13/24	06/14/24	
o-Xylene	ND	0.0250	1	06/13/24	06/14/24	
p,m-Xylene	ND	0.0500	1	06/13/24	06/14/24	
Total Xylenes	ND	0.0250	1	06/13/24	06/14/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.2 %	70-130		06/13/24	06/14/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2424078
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/13/24	06/14/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.7 %	70-130		06/13/24	06/14/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2424082
Diesel Range Organics (C10-C28)	ND	25.0	1	06/13/24	06/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/13/24	06/17/24	
<i>Surrogate: n-Nonane</i>						
	110 %	50-200		06/13/24	06/17/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: WF		Batch: 2424090
Chloride	ND	20.0	1	06/13/24	06/14/24	



## Sample Data

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

Project Name: Mule 23-11 Fed Com 822H  
Project Number: 01058-0007  
Project Manager: Gio Gomez

**Reported:**  
6/18/2024 4:48:27PM

S6-4'

E406118-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2424078
Benzene	ND	0.0250	1	06/13/24	06/14/24	
Ethylbenzene	ND	0.0250	1	06/13/24	06/14/24	
Toluene	ND	0.0250	1	06/13/24	06/14/24	
o-Xylene	ND	0.0250	1	06/13/24	06/14/24	
p,m-Xylene	ND	0.0500	1	06/13/24	06/14/24	
Total Xylenes	ND	0.0250	1	06/13/24	06/14/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.7 %	70-130		06/13/24	06/14/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2424078
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/13/24	06/14/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.7 %	70-130		06/13/24	06/14/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2424082
Diesel Range Organics (C10-C28)	ND	25.0	1	06/13/24	06/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/13/24	06/17/24	
<i>Surrogate: n-Nonane</i>						
	109 %	50-200		06/13/24	06/17/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: WF		Batch: 2424090
Chloride	ND	20.0	1	06/13/24	06/14/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Mule 23-11 Fed Com 822H	<b>Reported:</b> 6/18/2024 4:48:27PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

S7-Surface  
E406118-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2424078
Benzene	ND	0.0250	1	06/13/24	06/14/24	
Ethylbenzene	ND	0.0250	1	06/13/24	06/14/24	
Toluene	ND	0.0250	1	06/13/24	06/14/24	
o-Xylene	ND	0.0250	1	06/13/24	06/14/24	
p,m-Xylene	ND	0.0500	1	06/13/24	06/14/24	
Total Xylenes	ND	0.0250	1	06/13/24	06/14/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.4 %	70-130		06/13/24	06/14/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2424078
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/13/24	06/14/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.0 %	70-130		06/13/24	06/14/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2424082
Diesel Range Organics (C10-C28)	ND	25.0	1	06/13/24	06/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/13/24	06/17/24	
<i>Surrogate: n-Nonane</i>						
	115 %	50-200		06/13/24	06/17/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: WF		Batch: 2424090
Chloride	ND	20.0	1	06/13/24	06/14/24	





## Sample Data

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

Project Name: Mule 23-11 Fed Com 822H  
Project Number: 01058-0007  
Project Manager: Gio Gomez

**Reported:**  
6/18/2024 4:48:27PM

## S8-Surface

## E406118-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2424078
Benzene	ND	0.0250	1	06/13/24	06/14/24	
Ethylbenzene	ND	0.0250	1	06/13/24	06/14/24	
Toluene	ND	0.0250	1	06/13/24	06/14/24	
o-Xylene	ND	0.0250	1	06/13/24	06/14/24	
p,m-Xylene	ND	0.0500	1	06/13/24	06/14/24	
Total Xylenes	ND	0.0250	1	06/13/24	06/14/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.1 %	70-130		06/13/24	06/14/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2424078
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/13/24	06/14/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.8 %	70-130		06/13/24	06/14/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2424082
Diesel Range Organics (C10-C28)	ND	25.0	1	06/13/24	06/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/13/24	06/17/24	
<i>Surrogate: n-Nonane</i>						
	113 %	50-200		06/13/24	06/17/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: WF		Batch: 2424090
Chloride	ND	20.0	1	06/13/24	06/14/24	



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Mule 23-11 Fed Com 822H Project Number: 01058-0007 Project Manager: Gio Gomez	Reported: 6/18/2024 4:48:27PM
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S9-Surface  
E406118-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2424078	
Benzene	ND	0.0250	1	06/13/24	06/14/24	
Ethylbenzene	ND	0.0250	1	06/13/24	06/14/24	
Toluene	ND	0.0250	1	06/13/24	06/14/24	
o-Xylene	ND	0.0250	1	06/13/24	06/14/24	
p,m-Xylene	ND	0.0500	1	06/13/24	06/14/24	
Total Xylenes	ND	0.0250	1	06/13/24	06/14/24	
Surrogate: 4-Bromochlorobenzene-PID	93.8 %	70-130		06/13/24	06/14/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2424078	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/13/24	06/14/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.9 %	70-130		06/13/24	06/14/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2424082	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/13/24	06/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/13/24	06/17/24	
Surrogate: n-Nonane	115 %	50-200		06/13/24	06/17/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: WF		Batch: 2424090	
Chloride	ND	20.0	1	06/13/24	06/14/24	



## Sample Data

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

Project Name: Mule 23-11 Fed Com 822H  
Project Number: 01058-0007  
Project Manager: Gio Gomez

**Reported:**  
6/18/2024 4:48:27PM

## S10-Surface

## E406118-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>		mg/kg	mg/kg	Analyst: IY		Batch: 2424078
Benzene	ND	0.0250	1	06/13/24	06/14/24	
Ethylbenzene	ND	0.0250	1	06/13/24	06/14/24	
Toluene	ND	0.0250	1	06/13/24	06/14/24	
o-Xylene	ND	0.0250	1	06/13/24	06/14/24	
p,m-Xylene	ND	0.0500	1	06/13/24	06/14/24	
Total Xylenes	ND	0.0250	1	06/13/24	06/14/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		93.1 %	70-130	06/13/24	06/14/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>		mg/kg	mg/kg	Analyst: IY		Batch: 2424078
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/13/24	06/14/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		96.4 %	70-130	06/13/24	06/14/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>		mg/kg	mg/kg	Analyst: KM		Batch: 2424082
Diesel Range Organics (C10-C28)	ND	25.0	1	06/13/24	06/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/13/24	06/17/24	
<i>Surrogate: n-Nonane</i>		115 %	50-200	06/13/24	06/17/24	
<b>Anions by EPA 300.0/9056A</b>		mg/kg	mg/kg	Analyst: WF		Batch: 2424090
Chloride	ND	20.0	1	06/13/24	06/14/24	



## Sample Data

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

Project Name: Mule 23-11 Fed Com 822H  
Project Number: 01058-0007  
Project Manager: Gio Gomez

**Reported:**  
6/18/2024 4:48:27PM

S10-1'

E406118-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2424078
Benzene	ND	0.0250	1	06/13/24	06/14/24	
Ethylbenzene	ND	0.0250	1	06/13/24	06/14/24	
Toluene	ND	0.0250	1	06/13/24	06/14/24	
o-Xylene	ND	0.0250	1	06/13/24	06/14/24	
p,m-Xylene	ND	0.0500	1	06/13/24	06/14/24	
Total Xylenes	ND	0.0250	1	06/13/24	06/14/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.3 %	70-130		06/13/24	06/14/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2424078
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/13/24	06/14/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	97.3 %	70-130		06/13/24	06/14/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2424082
Diesel Range Organics (C10-C28)	ND	25.0	1	06/13/24	06/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/13/24	06/17/24	
<i>Surrogate: n-Nonane</i>						
	113 %	50-200		06/13/24	06/17/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: WF		Batch: 2424090
Chloride	ND	20.0	1	06/13/24	06/14/24	



## Sample Data

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

Project Name: Mule 23-11 Fed Com 822H  
Project Number: 01058-0007  
Project Manager: Gio Gomez

**Reported:**  
6/18/2024 4:48:27PM

S10-2'

E406118-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2424078
Benzene	ND	0.0250	1	06/13/24	06/14/24	
Ethylbenzene	ND	0.0250	1	06/13/24	06/14/24	
Toluene	ND	0.0250	1	06/13/24	06/14/24	
o-Xylene	ND	0.0250	1	06/13/24	06/14/24	
p,m-Xylene	ND	0.0500	1	06/13/24	06/14/24	
Total Xylenes	ND	0.0250	1	06/13/24	06/14/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.5 %	70-130		06/13/24	06/14/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2424078
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/13/24	06/14/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	97.9 %	70-130		06/13/24	06/14/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2424082
Diesel Range Organics (C10-C28)	ND	25.0	1	06/13/24	06/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/13/24	06/17/24	
<i>Surrogate: n-Nonane</i>						
	110 %	50-200		06/13/24	06/17/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: WF		Batch: 2424090
Chloride	ND	20.0	1	06/13/24	06/14/24	





## Sample Data

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

Project Name: Mule 23-11 Fed Com 822H  
Project Number: 01058-0007  
Project Manager: Gio Gomez

**Reported:**  
6/18/2024 4:48:27PM

S10-3'

E406118-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2424077
Benzene	ND	0.0250	1	06/13/24	06/14/24	
Ethylbenzene	ND	0.0250	1	06/13/24	06/14/24	
Toluene	ND	0.0250	1	06/13/24	06/14/24	
o-Xylene	ND	0.0250	1	06/13/24	06/14/24	
p,m-Xylene	ND	0.0500	1	06/13/24	06/14/24	
Total Xylenes	ND	0.0250	1	06/13/24	06/14/24	
Surrogate: Bromofluorobenzene	98.6 %	70-130		06/13/24	06/14/24	
Surrogate: 1,2-Dichloroethane-d4	98.5 %	70-130		06/13/24	06/14/24	
Surrogate: Toluene-d8	97.2 %	70-130		06/13/24	06/14/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2424077
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/13/24	06/14/24	
Surrogate: Bromofluorobenzene	98.6 %	70-130		06/13/24	06/14/24	
Surrogate: 1,2-Dichloroethane-d4	98.5 %	70-130		06/13/24	06/14/24	
Surrogate: Toluene-d8	97.2 %	70-130		06/13/24	06/14/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2424084
Diesel Range Organics (C10-C28)	ND	25.0	1	06/13/24	06/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/13/24	06/16/24	
Surrogate: n-Nonane	109 %	50-200		06/13/24	06/16/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: WF		Batch: 2424092
Chloride	ND	20.0	1	06/13/24	06/14/24	



## Sample Data

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

Project Name: Mule 23-11 Fed Com 822H  
Project Number: 01058-0007  
Project Manager: Gio Gomez

**Reported:**  
6/18/2024 4:48:27PM

S10-4'

E406118-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2424077
Benzene	ND	0.0250	1	06/13/24	06/14/24	
Ethylbenzene	ND	0.0250	1	06/13/24	06/14/24	
Toluene	ND	0.0250	1	06/13/24	06/14/24	
o-Xylene	ND	0.0250	1	06/13/24	06/14/24	
p,m-Xylene	ND	0.0500	1	06/13/24	06/14/24	
Total Xylenes	ND	0.0250	1	06/13/24	06/14/24	
Surrogate: Bromofluorobenzene		101 %	70-130	06/13/24	06/14/24	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130	06/13/24	06/14/24	
Surrogate: Toluene-d8		99.5 %	70-130	06/13/24	06/14/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2424077
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/13/24	06/14/24	
Surrogate: Bromofluorobenzene		101 %	70-130	06/13/24	06/14/24	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130	06/13/24	06/14/24	
Surrogate: Toluene-d8		99.5 %	70-130	06/13/24	06/14/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2424084
Diesel Range Organics (C10-C28)	ND	25.0	1	06/13/24	06/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/13/24	06/16/24	
Surrogate: n-Nonane		108 %	50-200	06/13/24	06/16/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: WF		Batch: 2424092
Chloride	ND	20.0	1	06/13/24	06/14/24	



## Sample Data

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

Project Name: Mule 23-11 Fed Com 822H  
Project Number: 01058-0007  
Project Manager: Gio Gomez

**Reported:**  
6/18/2024 4:48:27PM

## S11-Surface

## E406118-23

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2424077
Benzene	ND	0.0250	1	06/13/24	06/14/24	
Ethylbenzene	ND	0.0250	1	06/13/24	06/14/24	
Toluene	ND	0.0250	1	06/13/24	06/14/24	
o-Xylene	ND	0.0250	1	06/13/24	06/14/24	
p,m-Xylene	ND	0.0500	1	06/13/24	06/14/24	
Total Xylenes	ND	0.0250	1	06/13/24	06/14/24	
Surrogate: Bromofluorobenzene	97.4 %	70-130		06/13/24	06/14/24	
Surrogate: 1,2-Dichloroethane-d4	97.1 %	70-130		06/13/24	06/14/24	
Surrogate: Toluene-d8	97.2 %	70-130		06/13/24	06/14/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2424077
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/13/24	06/14/24	
Surrogate: Bromofluorobenzene	97.4 %	70-130		06/13/24	06/14/24	
Surrogate: 1,2-Dichloroethane-d4	97.1 %	70-130		06/13/24	06/14/24	
Surrogate: Toluene-d8	97.2 %	70-130		06/13/24	06/14/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2424084
Diesel Range Organics (C10-C28)	ND	25.0	1	06/13/24	06/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/13/24	06/16/24	
Surrogate: n-Nonane	111 %	50-200		06/13/24	06/16/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: WF		Batch: 2424092
Chloride	ND	20.0	1	06/13/24	06/14/24	



## Sample Data

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

Project Name: Mule 23-11 Fed Com 822H  
Project Number: 01058-0007  
Project Manager: Gio Gomez

**Reported:**  
6/18/2024 4:48:27PM

S11-1'

E406118-24

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2424077
Benzene	ND	0.0250	1	06/13/24	06/14/24	
Ethylbenzene	ND	0.0250	1	06/13/24	06/14/24	
Toluene	ND	0.0250	1	06/13/24	06/14/24	
o-Xylene	ND	0.0250	1	06/13/24	06/14/24	
p,m-Xylene	ND	0.0500	1	06/13/24	06/14/24	
Total Xylenes	ND	0.0250	1	06/13/24	06/14/24	
Surrogate: Bromofluorobenzene	99.0 %	70-130		06/13/24	06/14/24	
Surrogate: 1,2-Dichloroethane-d4	99.7 %	70-130		06/13/24	06/14/24	
Surrogate: Toluene-d8	97.5 %	70-130		06/13/24	06/14/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2424077
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/13/24	06/14/24	
Surrogate: Bromofluorobenzene	99.0 %	70-130		06/13/24	06/14/24	
Surrogate: 1,2-Dichloroethane-d4	99.7 %	70-130		06/13/24	06/14/24	
Surrogate: Toluene-d8	97.5 %	70-130		06/13/24	06/14/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2424084
Diesel Range Organics (C10-C28)	ND	25.0	1	06/13/24	06/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/13/24	06/16/24	
Surrogate: n-Nonane	109 %	50-200		06/13/24	06/16/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: WF		Batch: 2424092
Chloride	ND	20.0	1	06/13/24	06/14/24	



## Sample Data

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

Project Name: Mule 23-11 Fed Com 822H  
Project Number: 01058-0007  
Project Manager: Gio Gomez

**Reported:**  
6/18/2024 4:48:27PM

S11-2'

E406118-25

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2424077
Benzene	ND	0.0250	1	06/13/24	06/14/24	
Ethylbenzene	ND	0.0250	1	06/13/24	06/14/24	
Toluene	ND	0.0250	1	06/13/24	06/14/24	
o-Xylene	ND	0.0250	1	06/13/24	06/14/24	
p,m-Xylene	ND	0.0500	1	06/13/24	06/14/24	
Total Xylenes	ND	0.0250	1	06/13/24	06/14/24	
Surrogate: Bromofluorobenzene		101 %	70-130	06/13/24	06/14/24	
Surrogate: 1,2-Dichloroethane-d4		99.9 %	70-130	06/13/24	06/14/24	
Surrogate: Toluene-d8		98.0 %	70-130	06/13/24	06/14/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2424077
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/13/24	06/14/24	
Surrogate: Bromofluorobenzene		101 %	70-130	06/13/24	06/14/24	
Surrogate: 1,2-Dichloroethane-d4		99.9 %	70-130	06/13/24	06/14/24	
Surrogate: Toluene-d8		98.0 %	70-130	06/13/24	06/14/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2424084
Diesel Range Organics (C10-C28)	ND	25.0	1	06/13/24	06/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/13/24	06/17/24	
Surrogate: n-Nonane		107 %	50-200	06/13/24	06/17/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: WF		Batch: 2424092
Chloride	ND	20.0	1	06/13/24	06/14/24	





## Sample Data

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

Project Name: Mule 23-11 Fed Com 822H  
Project Number: 01058-0007  
Project Manager: Gio Gomez

**Reported:**  
6/18/2024 4:48:27PM

S11-3'

E406118-26

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2424077
Benzene	ND	0.0250	1	06/13/24	06/14/24	
Ethylbenzene	ND	0.0250	1	06/13/24	06/14/24	
Toluene	ND	0.0250	1	06/13/24	06/14/24	
o-Xylene	ND	0.0250	1	06/13/24	06/14/24	
p,m-Xylene	ND	0.0500	1	06/13/24	06/14/24	
Total Xylenes	ND	0.0250	1	06/13/24	06/14/24	
Surrogate: Bromofluorobenzene		101 %	70-130	06/13/24	06/14/24	
Surrogate: 1,2-Dichloroethane-d4		98.8 %	70-130	06/13/24	06/14/24	
Surrogate: Toluene-d8		97.6 %	70-130	06/13/24	06/14/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2424077
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/13/24	06/14/24	
Surrogate: Bromofluorobenzene		101 %	70-130	06/13/24	06/14/24	
Surrogate: 1,2-Dichloroethane-d4		98.8 %	70-130	06/13/24	06/14/24	
Surrogate: Toluene-d8		97.6 %	70-130	06/13/24	06/14/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2424084
Diesel Range Organics (C10-C28)	ND	25.0	1	06/13/24	06/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/13/24	06/17/24	
Surrogate: n-Nonane		103 %	50-200	06/13/24	06/17/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: WF		Batch: 2424092
Chloride	ND	20.0	1	06/13/24	06/14/24	



## Sample Data

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

Project Name: Mule 23-11 Fed Com 822H  
Project Number: 01058-0007  
Project Manager: Gio Gomez

**Reported:**  
6/18/2024 4:48:27PM

S11-4'

E406118-27

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2424077
Benzene	ND	0.0250	1	06/13/24	06/14/24	
Ethylbenzene	ND	0.0250	1	06/13/24	06/14/24	
Toluene	ND	0.0250	1	06/13/24	06/14/24	
o-Xylene	ND	0.0250	1	06/13/24	06/14/24	
p,m-Xylene	ND	0.0500	1	06/13/24	06/14/24	
Total Xylenes	ND	0.0250	1	06/13/24	06/14/24	
Surrogate: Bromofluorobenzene	98.9 %	70-130		06/13/24	06/14/24	
Surrogate: 1,2-Dichloroethane-d4	99.4 %	70-130		06/13/24	06/14/24	
Surrogate: Toluene-d8	97.9 %	70-130		06/13/24	06/14/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2424077
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/13/24	06/14/24	
Surrogate: Bromofluorobenzene	98.9 %	70-130		06/13/24	06/14/24	
Surrogate: 1,2-Dichloroethane-d4	99.4 %	70-130		06/13/24	06/14/24	
Surrogate: Toluene-d8	97.9 %	70-130		06/13/24	06/14/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2424084
Diesel Range Organics (C10-C28)	ND	25.0	1	06/13/24	06/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/13/24	06/17/24	
Surrogate: n-Nonane	106 %	50-200		06/13/24	06/17/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: WF		Batch: 2424092
Chloride	ND	20.0	1	06/13/24	06/14/24	



## Sample Data

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

Project Name: Mule 23-11 Fed Com 822H  
Project Number: 01058-0007  
Project Manager: Gio Gomez

**Reported:**  
6/18/2024 4:48:27PM

## S12-Surface

## E406118-28

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2424077
Benzene	ND	0.0250	1	06/13/24	06/14/24	
Ethylbenzene	ND	0.0250	1	06/13/24	06/14/24	
Toluene	ND	0.0250	1	06/13/24	06/14/24	
o-Xylene	ND	0.0250	1	06/13/24	06/14/24	
p,m-Xylene	ND	0.0500	1	06/13/24	06/14/24	
Total Xylenes	ND	0.0250	1	06/13/24	06/14/24	
Surrogate: Bromofluorobenzene	98.3 %	70-130		06/13/24	06/14/24	
Surrogate: 1,2-Dichloroethane-d4	99.4 %	70-130		06/13/24	06/14/24	
Surrogate: Toluene-d8	98.4 %	70-130		06/13/24	06/14/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2424077
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/13/24	06/14/24	
Surrogate: Bromofluorobenzene	98.3 %	70-130		06/13/24	06/14/24	
Surrogate: 1,2-Dichloroethane-d4	99.4 %	70-130		06/13/24	06/14/24	
Surrogate: Toluene-d8	98.4 %	70-130		06/13/24	06/14/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2424084
Diesel Range Organics (C10-C28)	ND	25.0	1	06/13/24	06/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/13/24	06/17/24	
Surrogate: n-Nonane	109 %	50-200		06/13/24	06/17/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: WF		Batch: 2424092
Chloride	ND	20.0	1	06/13/24	06/14/24	



## Sample Data

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

Project Name: Mule 23-11 Fed Com 822H  
Project Number: 01058-0007  
Project Manager: Gio Gomez

**Reported:**  
6/18/2024 4:48:27PM

## BG1

## E406118-29

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2424077
Benzene	ND	0.0250	1	06/13/24	06/14/24	
Ethylbenzene	ND	0.0250	1	06/13/24	06/14/24	
Toluene	ND	0.0250	1	06/13/24	06/14/24	
o-Xylene	ND	0.0250	1	06/13/24	06/14/24	
p,m-Xylene	ND	0.0500	1	06/13/24	06/14/24	
Total Xylenes	ND	0.0250	1	06/13/24	06/14/24	
Surrogate: Bromofluorobenzene	99.9 %	70-130		06/13/24	06/14/24	
Surrogate: 1,2-Dichloroethane-d4	97.9 %	70-130		06/13/24	06/14/24	
Surrogate: Toluene-d8	97.3 %	70-130		06/13/24	06/14/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2424077
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/13/24	06/14/24	
Surrogate: Bromofluorobenzene	99.9 %	70-130		06/13/24	06/14/24	
Surrogate: 1,2-Dichloroethane-d4	97.9 %	70-130		06/13/24	06/14/24	
Surrogate: Toluene-d8	97.3 %	70-130		06/13/24	06/14/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2424084
Diesel Range Organics (C10-C28)	ND	25.0	1	06/13/24	06/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/13/24	06/17/24	
Surrogate: n-Nonane	112 %	50-200		06/13/24	06/17/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: WF		Batch: 2424092
Chloride	ND	20.0	1	06/13/24	06/14/24	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Mule 23-11 Fed Com 822H	Reported:  6/18/2024 4:48:27PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

Volatile Organic Compounds by EPA 8260B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2424077-BLK1) Prepared: 06/13/24 Analyzed: 06/15/24

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: Bromofluorobenzene	0.504		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.492		0.500		98.4	70-130			
Surrogate: Toluene-d8	0.490		0.500		97.9	70-130			

LCS (2424077-BS1) Prepared: 06/13/24 Analyzed: 06/15/24

Benzene	2.38	0.0250	2.50		95.3	70-130			
Ethylbenzene	2.38	0.0250	2.50		95.3	70-130			
Toluene	2.28	0.0250	2.50		91.2	70-130			
o-Xylene	2.46	0.0250	2.50		98.4	70-130			
p,m-Xylene	4.92	0.0500	5.00		98.5	70-130			
Total Xylenes	7.38	0.0250	7.50		98.5	70-130			
Surrogate: Bromofluorobenzene	0.506		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.477		0.500		95.3	70-130			
Surrogate: Toluene-d8	0.497		0.500		99.4	70-130			

Matrix Spike (2424077-MS1) Source: E406112-02 Prepared: 06/13/24 Analyzed: 06/15/24

Benzene	2.40	0.0250	2.50	ND	96.0	48-131			
Ethylbenzene	2.45	0.0250	2.50	ND	97.8	45-135			
Toluene	2.35	0.0250	2.50	ND	93.8	48-130			
o-Xylene	2.51	0.0250	2.50	ND	101	43-135			
p,m-Xylene	5.01	0.0500	5.00	ND	100	43-135			
Total Xylenes	7.52	0.0250	7.50	ND	100	43-135			
Surrogate: Bromofluorobenzene	0.499		0.500		99.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.8	70-130			
Surrogate: Toluene-d8	0.497		0.500		99.3	70-130			

Matrix Spike Dup (2424077-MSD1) Source: E406112-02 Prepared: 06/13/24 Analyzed: 06/15/24

Benzene	2.48	0.0250	2.50	ND	99.1	48-131	3.18	23	
Ethylbenzene	2.49	0.0250	2.50	ND	99.7	45-135	1.92	27	
Toluene	2.38	0.0250	2.50	ND	95.1	48-130	1.36	24	
o-Xylene	2.62	0.0250	2.50	ND	105	43-135	4.13	27	
p,m-Xylene	5.20	0.0500	5.00	ND	104	43-135	3.80	27	
Total Xylenes	7.82	0.0250	7.50	ND	104	43-135	3.91	27	
Surrogate: Bromofluorobenzene	0.517		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.482		0.500		96.4	70-130			
Surrogate: Toluene-d8	0.501		0.500		100	70-130			





QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Mule 23-11 Fed Com 822H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	6/18/2024 4:48:27PM

Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2424078-BLK1) Prepared: 06/13/24 Analyzed: 06/14/24

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 7.49 8.00 93.7 70-130

LCS (2424078-BS1) Prepared: 06/13/24 Analyzed: 06/14/24

Benzene	4.82	0.0250	5.00		96.5	70-130			
Ethylbenzene	4.65	0.0250	5.00		92.9	70-130			
Toluene	4.75	0.0250	5.00		95.0	70-130			
o-Xylene	4.63	0.0250	5.00		92.7	70-130			
p,m-Xylene	9.43	0.0500	10.0		94.3	70-130			
Total Xylenes	14.1	0.0250	15.0		93.8	70-130			

Surrogate: 4-Bromochlorobenzene-PID 7.47 8.00 93.4 70-130

Matrix Spike (2424078-MS1) Source: E406118-03 Prepared: 06/13/24 Analyzed: 06/14/24

Benzene	4.82	0.0250	5.00	ND	96.4	54-133			
Ethylbenzene	4.64	0.0250	5.00	ND	92.8	61-133			
Toluene	4.76	0.0250	5.00	ND	95.1	61-130			
o-Xylene	4.64	0.0250	5.00	ND	92.8	63-131			
p,m-Xylene	9.43	0.0500	10.0	ND	94.3	63-131			
Total Xylenes	14.1	0.0250	15.0	ND	93.8	63-131			

Surrogate: 4-Bromochlorobenzene-PID 7.53 8.00 94.2 70-130

Matrix Spike Dup (2424078-MSD1) Source: E406118-03 Prepared: 06/13/24 Analyzed: 06/14/24

Benzene	4.79	0.0250	5.00	ND	95.8	54-133	0.712	20	
Ethylbenzene	4.63	0.0250	5.00	ND	92.6	61-133	0.266	20	
Toluene	4.73	0.0250	5.00	ND	94.6	61-130	0.584	20	
o-Xylene	4.62	0.0250	5.00	ND	92.4	63-131	0.427	20	
p,m-Xylene	9.41	0.0500	10.0	ND	94.1	63-131	0.197	20	
Total Xylenes	14.0	0.0250	15.0	ND	93.5	63-131	0.273	20	

Surrogate: 4-Bromochlorobenzene-PID 7.50 8.00 93.8 70-130



## QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Mule 23-11 Fed Com 822H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	6/18/2024 4:48:27PM

## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2424077-BLK1)

Prepared: 06/13/24 Analyzed: 06/15/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.504		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.492		0.500		98.4	70-130			
Surrogate: Toluene-d8	0.490		0.500		97.9	70-130			

## LCS (2424077-BS2)

Prepared: 06/13/24 Analyzed: 06/15/24

Gasoline Range Organics (C6-C10)	45.8	20.0	50.0		91.5	70-130			
Surrogate: Bromofluorobenzene	0.524		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.495		0.500		98.9	70-130			
Surrogate: Toluene-d8	0.504		0.500		101	70-130			

## Matrix Spike (2424077-MS2)

Source: E406112-02

Prepared: 06/13/24 Analyzed: 06/15/24

Gasoline Range Organics (C6-C10)	41.8	20.0	50.0	ND	83.6	70-130			
Surrogate: Bromofluorobenzene	0.511		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.475		0.500		94.9	70-130			
Surrogate: Toluene-d8	0.505		0.500		101	70-130			

## Matrix Spike Dup (2424077-MSD2)

Source: E406112-02

Prepared: 06/13/24 Analyzed: 06/15/24

Gasoline Range Organics (C6-C10)	43.2	20.0	50.0	ND	86.4	70-130	3.29	20	
Surrogate: Bromofluorobenzene	0.516		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.483		0.500		96.5	70-130			
Surrogate: Toluene-d8	0.504		0.500		101	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Mule 23-11 Fed Com 822H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	6/18/2024 4:48:27PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2424078-BLK1) Prepared: 06/13/24 Analyzed: 06/14/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.75		8.00		96.9	70-130			

LCS (2424078-BS2) Prepared: 06/13/24 Analyzed: 06/14/24

Gasoline Range Organics (C6-C10)	47.7	20.0	50.0		95.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.84		8.00		98.0	70-130			

Matrix Spike (2424078-MS2) Source: E406118-03 Prepared: 06/13/24 Analyzed: 06/14/24

Gasoline Range Organics (C6-C10)	47.3	20.0	50.0	ND	94.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.79		8.00		97.4	70-130			

Matrix Spike Dup (2424078-MSD2) Source: E406118-03 Prepared: 06/13/24 Analyzed: 06/14/24

Gasoline Range Organics (C6-C10)	46.0	20.0	50.0	ND	92.1	70-130	2.71	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.85		8.00		98.1	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Mule 23-11 Fed Com 822H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	6/18/2024 4:48:27PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2424082-BLK1)					Prepared: 06/13/24 Analyzed: 06/16/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	52.0		50.0		104	50-200			

LCS (2424082-BS1)					Prepared: 06/13/24 Analyzed: 06/16/24				
Diesel Range Organics (C10-C28)	273	25.0	250		109	38-132			
Surrogate: n-Nonane	56.3		50.0		113	50-200			

Matrix Spike (2424082-MS1)					Source: E406118-05		Prepared: 06/13/24 Analyzed: 06/17/24		
Diesel Range Organics (C10-C28)	277	25.0	250	ND	111	38-132			
Surrogate: n-Nonane	55.7		50.0		111	50-200			

Matrix Spike Dup (2424082-MSD1)					Source: E406118-05		Prepared: 06/13/24 Analyzed: 06/17/24		
Diesel Range Organics (C10-C28)	278	25.0	250	ND	111	38-132	0.354	20	
Surrogate: n-Nonane	57.2		50.0		114	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Mule 23-11 Fed Com 822H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	6/18/2024 4:48:27PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2424084-BLK1)					Prepared: 06/13/24 Analyzed: 06/16/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	55.7		50.0		111	50-200			

LCS (2424084-BS1)					Prepared: 06/13/24 Analyzed: 06/16/24				
Diesel Range Organics (C10-C28)	260	25.0	250		104	38-132			
Surrogate: n-Nonane	55.0		50.0		110	50-200			

Matrix Spike (2424084-MS1)					Source: E406112-07		Prepared: 06/13/24 Analyzed: 06/16/24		
Diesel Range Organics (C10-C28)	270	25.0	250	ND	108	38-132			
Surrogate: n-Nonane	57.6		50.0		115	50-200			

Matrix Spike Dup (2424084-MSD1)					Source: E406112-07		Prepared: 06/13/24 Analyzed: 06/16/24		
Diesel Range Organics (C10-C28)	271	25.0	250	ND	108	38-132	0.223	20	
Surrogate: n-Nonane	55.7		50.0		111	50-200			





QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Mule 23-11 Fed Com 822H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	6/18/2024 4:48:27PM

Anions by EPA 300.0/9056A

Analyst: WF

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

Blank (2424090-BLK1)					Prepared: 06/13/24 Analyzed: 06/14/24				
Chloride	ND	20.0							
LCS (2424090-BS1)					Prepared: 06/13/24 Analyzed: 06/14/24				
Chloride	247	20.0	250		98.9	90-110			
Matrix Spike (2424090-MS1)					Source: E406118-03		Prepared: 06/13/24 Analyzed: 06/14/24		
Chloride	251	20.0	250	ND	100	80-120			
Matrix Spike Dup (2424090-MSD1)					Source: E406118-03		Prepared: 06/13/24 Analyzed: 06/14/24		
Chloride	252	20.0	250	ND	101	80-120	0.691	20	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Mule 23-11 Fed Com 822H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	6/18/2024 4:48:27PM

Anions by EPA 300.0/9056A

Analyst: WF

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

Blank (2424092-BLK1)					Prepared: 06/13/24 Analyzed: 06/14/24				
Chloride	ND	20.0							
LCS (2424092-BS1)					Prepared: 06/13/24 Analyzed: 06/14/24				
Chloride	248	20.0	250		99.2	90-110			
Matrix Spike (2424092-MS1)					Source: E406118-23		Prepared: 06/13/24 Analyzed: 06/14/24		
Chloride	261	20.0	250	ND	105	80-120			
Matrix Spike Dup (2424092-MSD1)					Source: E406118-23		Prepared: 06/13/24 Analyzed: 06/14/24		
Chloride	261	20.0	250	ND	105	80-120	0.00459	20	

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



Definitions and Notes

Pima Environmental Services-Carlsbad	Project Name:	Mule 23-11 Fed Com 822H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Gio Gomez	06/18/24 16:48

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



## Project Information

## Chain of Custody

Page 1 of 3

<b>Client:</b> Pima Environmental Services <b>Project:</b> Mule 23-11 Fed com 822H <b>Project Manager:</b> Gio Gomez <b>Address:</b> 5614 N. Lovington Hwy. <b>City, State, Zip:</b> Hobbs, NM. 88240 <b>Phone:</b> 806-782-1151 <b>Email:</b> gio@pimaoil.com <b>Report due by:</b>					<b>Bill To</b> <b>Attention:</b> Devon <b>Address:</b> <b>City, State, Zip:</b> <b>Phone:</b> <b>Email:</b> <b>Pima Project #</b> 1-310					<b>Lab Use Only</b> <b>Lab WO#</b> E406118 <b>Job Number</b> 01058-0007					<b>TAT</b> 1D 2D 3D Standard X				<b>EPA Program</b> CWA SDWA	
										<b>Analysis and Method</b> GRO/DRO by 8015 GRO/DRO by 8015 BTEX by 8021 VOC by 8260 Metals 6010 Chloride 300.0 BGDOC NM BGDOC TX					<b>State</b> NM CO UT AZ TX X				<b>RCRA</b>	
										<b>Remarks</b>										
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number															
9:16	6/8	S		S1-Surface	1															
9:21				S2-Surface	2															
9:33				S2-1'	3															
9:47				S2-2'	4															
9:53				S2-3'	5															
9:59				S2-4'	6															
10:11				S3-Surface	7															
10:17				S4-Surface	8															
10:23				S5-Surface	9															
10:31				S6-Surface	10															
<b>Additional Instructions:</b> B# XX-146919.01-DRL																				
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																				
Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.																				
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	<b>Lab Use Only</b> Received on ice: Y / N												
Marine Adams		6/12/24	1:27	Michelle Gonzales		6-12-24	1327													
Michelle Gonzales		6-12-24	1545	J.M.		6-12-24	1645	T1 T2 T3												
J.M.		6-12-24	2245	Kuylynn R Hall		6-13-24	0700	AVG Temp °C 4												
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																				
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																				
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																				



## Chain of Custody

Page 2 of 3

## Project Information

Client: Pima Environmental Services  
 Project: Mule 23-11 Fed Com 822H  
 Project Manager: Gio Gomez  
 Address: 5614 N. Lovington Hwy.  
 City, State, Zip Hobbs, NM, 88240  
 Phone: 806-782-1151  
 Email: gio@pimaoil.com

Bill To  
 Attention: Devon

Address:  
 City, State, Zip  
 Phone:  
 Email:

Pima Project # 1-310

## Report due by:

Report					Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Number	DRO	GRO	BTEX	VOC	Me	Ch																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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## Additional Instructions:

B# XX-146919.01-DRL

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

## Sampled by:

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
<u>Kerime Adame</u>	6/12/24	1:27	<u>Michelle Gonzales</u>	6-12-24	1327
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
<u>Michelle Gonzales</u>	6-12-24	1545	<u>L.H.</u>	6-12-24	1645
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
<u>L.H.</u>	6.12.24	2245	<u>Kyle R. Hall</u>	6-13-24	0700

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 5 °C on subsequent days.

Lab Use Only  
 Received on ice: Y / N

T1 \_\_\_\_\_ T2 \_\_\_\_\_ T3 \_\_\_\_\_

AVG Temp °C 4

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other \_\_\_\_\_

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


**envirotech**



## Project Information

## Chain of Custody

Page 3 of 3

<b>Client: Pima Environmental Services</b> <b>Project: Mule 23-11 FedCom 822H</b> <b>Project Manager: Gio Gomez</b> <b>Address: 5614 N. Lovington Hwy.</b> <b>City, State, Zip: Hobbs, NM, 88240</b> <b>Phone: 806-782-1151</b> <b>Email: gio@pimaoil.com</b> <b>Report due by:</b>					<b>Bill To</b> <b>Attention: Devon</b> <b>Address:</b> <b>City, State, Zip:</b> <b>Phone:</b> <b>Email:</b> <b>Pima Project # 1-310</b>					<b>Lab Use Only</b> <b>Lab WO# E406118</b> <b>Job Number 01058-0007</b> <b>Analysis and Method</b>					<b>TAT</b> <b>1D 2D 3D Standard</b> <input checked="" type="checkbox"/>				<b>EPA Program</b> <b>CWA SDWA</b> <b>RCRA</b>	
										<b>State</b> <b>NM CO UT AZ TX</b> <input checked="" type="checkbox"/>				<b>Remarks</b>						
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BDOC NM	BDOC TX							
12:39	6/8	S		S10-3'	21							X								
12:45				S10-4'	22															
12:56				S11-Surface	23															
12:59				S11-1'	24															
1:17				S11-2'	25															
1:21				S11-3'	26															
1:33				S11-4'	27															
1:39				S12-Surface	28															
1:45				BGI	29															
<b>Additional Instructions:</b> B# XX-146919.01-DRL																				
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																				
Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.																				
Relinquished by: (Signature) <u>Karime Adams</u> Date <u>6/12/24</u> Time <u>1:27</u> Received by: (Signature) <u>Michelle Gonzales</u> Date <u>6-12-24</u> Time <u>1327</u>																				
Relinquished by: (Signature) <u>Michelle Gonzales</u> Date <u>6-12-24</u> Time <u>1545</u> Received by: (Signature) <u>C.H.</u> Date <u>6-12-24</u> Time <u>1645</u>																				
Relinquished by: (Signature) <u>C.H.</u> Date <u>6-12-24</u> Time <u>2245</u> Received by: (Signature) <u>Kyle R Heuer</u> Date <u>6-13-24</u> Time <u>0700</u>																				
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____																				
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																				



## Envirotech Analytical Laboratory

Printed: 6/13/2024 10:42:11AM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Pima Environmental Services-Carlsbad	Date Received:	06/13/24 07:00	Work Order ID:	E406118
Phone:	(575) 631-6977	Date Logged In:	06/12/24 15:43	Logged In By:	Alexa Michaels
Email:	gio@pimaoil.com	Due Date:	06/19/24 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

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 423201

**QUESTIONS**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 423201
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2305244923
Incident Name	NAPP2305244923 MULE 23-11 FED COM 822H @ 30-015-49388
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received
Incident Well	[30-015-49388] MULE 23 11 FEDERAL COM #822H

**Location of Release Source**

Please answer all the questions in this group.

Site Name	MULE 23-11 FED COM 822H
Date Release Discovered	01/15/2023
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   Coupling   Produced Water   Released: 25 BBL   Recovered: 16 BBL   Lost: 9 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
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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Action 423201

**QUESTIONS (continued)**

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**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
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. gas only) are to be submitted on the C-129 form.	

**Initial Response**

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

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

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

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

I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.ralej@dv.com Date: 01/27/2025
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Action 423201

**QUESTIONS (continued)**

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**QUESTIONS**

<b>Site Characterization</b>	
<i>Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 26 and 50 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	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	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

<b>Remediation Plan</b>	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>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.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
<b>Soil Contamination Sampling:</b> (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	74.4
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
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
On what estimated date will the remediation commence	03/10/2025
On what date will (or did) the final sampling or liner inspection occur	03/17/2025
On what date will (or was) the remediation complete(d)	03/25/2025
What is the estimated surface area (in square feet) that will be reclaimed	3629
What is the estimated volume (in cubic yards) that will be reclaimed	134
What is the estimated surface area (in square feet) that will be remediated	3629
What is the estimated volume (in cubic yards) that will be remediated	134
<i>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.</i>	
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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Action 423201

**QUESTIONS (continued)**

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**QUESTIONS**

<b>Remediation Plan (continued)</b>	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
<b>This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:</b>	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	HALFWAY DISPOSAL AND LANDFILL [FEEM0112334510]
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and <b>on-site</b> 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)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.raley@dmv.com Date: 01/27/2025
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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Action 423201

**QUESTIONS (continued)**

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**QUESTIONS**

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



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Action 423201

**QUESTIONS (continued)**

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**QUESTIONS**

Sampling Event Information	
Last sampling notification (C-141N) recorded	357062
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	06/08/2024
What was the (estimated) number of samples that were to be gathered	29
What was the sampling surface area in square feet	1300

**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	No
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CONDITIONS

Action 423201

**CONDITIONS**

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**CONDITIONS**

Created By	Condition	Condition Date
rhamlet	The Remediation Plan is Conditionally Approved. The Variance Request is Denied for 400 ft2 confirmation samples. The Variance Request to use delineation samples as confirmation samples is Denied. Water analysis from the source shows this is a very highly concentrated chloride produced water release. Make sure the soil samples are properly taken/handled, and correct sampling protocol is followed. Floor confirmation samples should be delineated/excavated to meet closure criteria standards from Table 1 of the OCD Spill Rule for site assessment/characterization/proven depth to water determination. Sidewall/Edge samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. The release area will need confirmation floor/sidewall samples representing no more than 200 ft2. All sidewall samples should be taken from the sidewall of the excavation. All off-pad areas must meet OCD reclamation/revegetation standards.	2/21/2025