

**Ram Energy, LLC 5100 E
Skelly Dr. Suite 600
Tulsa, OK 74135
918-947-6308**

November 11th, 2024

Environmental Compliance Office
New Mexico State Land Office
eco@slo.state.nm.us

RE: NM **OCD Incident No:**
NAPP2415048014
Remediation Work Plan
New Mexico A State #001
API No. 30-025-08332
GPS: Latitude 32.9823227 Longitude -103.647522
ULSTR – P – 30 - 15S - 33E 660 FSL 660 FEL Lea County, NM

Ram Energy, LLC (Ram) has contracted McVay Services, LLC (McVay) to prepare this remediation work plan for the New Mexico A State #001 (New Mexico).

Site Location and Background

The New Mexico A State well is an oil well located approximately eleven (11) miles northeast of Maljamar, NM. This site is in Unit P, Section 30, Township 15S, Range 33E, Latitude 32.9823227 Longitude -103.647522, Lea County, NM. It can be accessed by a lease road that bears entry from the south. From the intersection of Natural Road and US Hwy 82 in Lea County, travel north on Natural Road for 5 miles, continue north on lease road for 700 feet into location. The well was most recently operated by RAM Energy LLC. A Location Map can be found in Figure 3.

According to a Google Earth historical search, staining around the tanks, within the earthen berm, could be seen in late 2017. Staining around the wellhead area appears to have come and gone throughout the years.

Site Characterization

Depth-to-Groundwater

According to the New Mexico Office of the State Engineer, depth to the nearest groundwater in this area is 280 feet below grade surface (BGS). According to the United States Geological Survey well water data, depth to the nearest groundwater in this area is 135 feet BGS. NMOSE well L-03967-S was drilled in August of 2015 to a depth of 280 feet bgs. The depth to water level of this completed well is 280 feet bgs. This well is located approximately 1,312 feet to the south of the New Mexico. See Appendix A

Nearest Significant Watercourse

According to the National Wetlands Mapper by USFWS, there is a Wetland Riverine 300 ft Southwest of the site. See Appendix A

KARST Potential

Based upon available data from the NMSLO Land Status map, there is a LOW potential for Karst at the site location. (Figure 5).

Compliance

Lease

There is no active lease according to the NMSLO Land Status Map, and the previous ROE expired on August 26, 2024. Therefore, a renewed ROE has been applied for and remediation activities will commence upon approval of the ROE, this plan, and required notifications are made.

Cultural Properties Protection Rule

All delineation points are within areas previously disturbed, so the CPP Rule is not applicable.

Biological Sensitive Areas

All delineation points are within areas previously disturbed so biological sensitive areas, if any, will not be affected.

Delineation Activities

On July 30, 2024, Rose Rock mobilized personnel and equipment to the site to begin delineation activities. Samples were collected from the pad around the previous tank battery and wellhead areas to identify possible contaminated soil. Samples were collected from 15 different sample points within and around the tank battery area from depth intervals of Surface (8"), 2', and 4' bgs for the purpose of finding vertical delineation. Composite samples were collected from 14 different sample points around the edge of this area consisting of depth intervals from Surface (8"), 1', 2', 3, and 4' bgs for the purpose of finding horizontal delineation. Samples were collected from 2 different sample points to the east of this area from depth intervals of Surface (8"), 2', and 4' bgs for the purpose of finding vertical delineation of this scarred area. These samples were immediately put on ice, jarred, and delivered to Envirotech Analytical Laboratories for analysis of all constituents listed in Table 1 19.15.29.12 NMAC. Reclamation closure criteria require sample results to be less than the values shown in the <50' depth to groundwater section of Table 1. Samples were then collected from 4 different sample points around the wellhead area from depth intervals of Surface (8"), 3', 4', and 6' bgs for the purpose of vertical delineation. Composite samples were also collected from 8 different sample points around the edge of this area consisting of depth intervals from Surface (8"), 1', 2', 4' and 6' bgs for the purpose of horizontal delineation. A single sample was collected from a sample point next to the lease road on the west side to represent the background values. These samples were also immediately put on ice, jarred, and delivered to Envirotech Analytical Laboratory for analysis of all constituents listed in Table 1 19.15.29.12 NMAC. A total of 65 samples were delivered to the lab for analysis. The results of this sampling event can be referenced in the Data Table in Figure 1. A corresponding Delineation Map can be found in Figure 2. A complete Laboratory Report can be found in Appendix D.

Additional samples were taken from around the wellhead area at sample points WH1 and WW1 at surface which showed high TPH which will be addressed in the remediation activities section. See Appendix D for a lab report.

It was determined that horizontal composite sampling errors were made, horizontal sampling grabs from the 14 sample points indicated on the lab report will be taken from Surface (8"), 1', and 2' during the remediation process.

Delineation sampling within the containment area at sample points S2 and S3 on the map will take place as part of the remediation process. This is to address the state's independent sampling which found discrepancies with the original sampling report in this area.

Proposed Remediation Activities


1. Place a One-Call with the NM811 system.
2. Due to the Wetland-Riverine noted above, the affected area and wellhead area will be cleaned to the strictest standards as required by Table 1 requirements.
3. Prior to any sampling being conducted, a 4-day sampling notification to eco@nmslo.gov must be given.
4. The affected area (Light Blue proposed remediation area on map) will be excavated to a depth of 2 ft as per the sampling report results which show non-detectable TPH and Chlorides at that depth. The wellhead area will be delineated while remediation activities are occurring due to inconsistent sample results from samples taken on November 1st, 2024 at surface from sample points WW1 and WH1 which showed TPH levels above the Table 1 standards. The original report showed TPH levels as non-detectable. Contaminated material will be hauled to an approved disposal site.
5. Conduct confirmation sampling representative of no more than 200 sqft at sampling points SS1 and SS2 where the contaminated soil stockpiles were located.
6. Collect confirmation composite samples every 200 sqft on the floor of the affected area and wellhead area and collect horizontal confirmation samples every 200 ft at the surface of the affected area and wellhead area. Upon collection, the soil samples will be submitted to Cardinal Laboratories in Hobbs, New Mexico, for analysis of total petroleum hydrocarbons (TPH) using EPA Method 8015; benzene, toluene, ethylbenzene, and xylenes (BTEX) using EPA Method 8021; and total chloride using Method SM4500..
7. Once sample results have been confirmed that they are under Table 1 criteria, backfill the affected and wellhead areas with material consistent with the surrounding ground composition and prepare the site for reclamation.
8. Upon completion of remediation activities, a separate reclamation plan will be submitted for approval.

Attachments

Figures:

- 1- Data Table
- 2- Delineation Map
- 3- Location Map
- 4- Topographic Map
- 5- Karst Map
- 6- LPC/Dune Lizard Map
- 7- Proposed Remediation Map

Appendices:

- Appendix A – Referenced Water Surveys and Water-Related Maps
- Appendix B – Soil Survey and Geological Data
- Appendix C – Photographic Documentation
- Appendix D –  Laboratory Reports

Figures:

- 1 - Data Table
- 2 - Delineation Map
- 3 - Location Map
- 4 - Topographic Map
- 5 - Karst Map
- 6 - LPC/Dune Lizard Map
- 7 - Proposed Remediation Map

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is 51-100')								
Ram Energy - New Mexico A State #001 - SLO Reclaim								
Date 7/30/24		NM Approved Soil Sample Results						
Sample ID	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH	Cl mg/kg
S1 Surface	8"	ND	ND	ND	2310	2070	4380	371
S1 2'	2'	ND	ND	ND	ND	ND	0	ND
S2 Surface	8"	ND	ND	ND	ND	ND	0	206
S2 2'	2'	ND	ND	ND	ND	ND	0	21.2
S3 Surface	8"	ND	ND	ND	ND	ND	0	124
S3 2'	2'	ND	ND	ND	ND	ND	0	126
S4 Surface	8"	ND	ND	ND	86.7	159	245.7	226
S4 2'	2'	ND	ND	ND	ND	ND	0	54.9
S5 Surface	8"	ND	ND	ND	ND	ND	0	ND
S5 2'	2'	ND	ND	ND	ND	ND	0	ND
S6 Surface	8"	ND	ND	ND	ND	ND	0	25.1
S6 2'	2'	ND	ND	ND	ND	ND	0	ND
S7 Surface	8"	ND	ND	ND	686	871	1557	164
S7 2'	2'	ND	ND	ND	ND	ND	0	ND
S8 Surface	8"	ND	ND	ND	1920	1980	3900	75.9
S8 2'	2'	ND	ND	ND	ND	ND	0	ND
S9 Surface	8"	ND	ND	ND	1670	1640	3310	109
S9 2'	2'	ND	ND	ND	ND	ND	0	ND
S10 Surface	8"	ND	ND	ND	366	484	850	1040
S10 2'	2'	ND	ND	ND	ND	ND	0	ND
S11 Surface	8"	ND	ND	ND	82.9	102	184.9	144
S11 4'	4'	ND	ND	ND	ND	ND	0	ND
S12 Surface	8"	ND	ND	ND	ND	ND	0	56.2
S12 2'	2'	ND	ND	ND	ND	ND	0	ND
S13 Surface	8"	ND	ND	ND	ND	ND	0	37.7
S13 2'	2'	ND	ND	ND	ND	ND	0	ND
S14 Surface	8"	ND	ND	ND	76.7	115	191.7	33.1
S14 2'	2'	ND	ND	ND	ND	ND	0	ND
S15 Surface	8"	ND	ND	ND	1850	1910	3760	104
S15 2'	2'	ND	ND	ND	ND	ND	0	ND
P1 Surface	8"	ND	ND	ND	ND	ND	0	ND
S1 2'	2'	ND	ND	ND	ND	ND	0	ND
P2 Surface	8"	ND	ND	ND	ND	ND	0	ND
S2 2'	2'	ND	ND	ND	ND	ND	0	ND
N1 Comp	0-4'	ND	ND	ND	ND	ND	0	ND
N2 Comp	0-4'	ND	ND	ND	ND	ND	0	ND
N3 Comp	0-4'	ND	ND	ND	ND	ND	0	ND
N4 Comp	0-4'	ND	ND	ND	ND	ND	0	ND

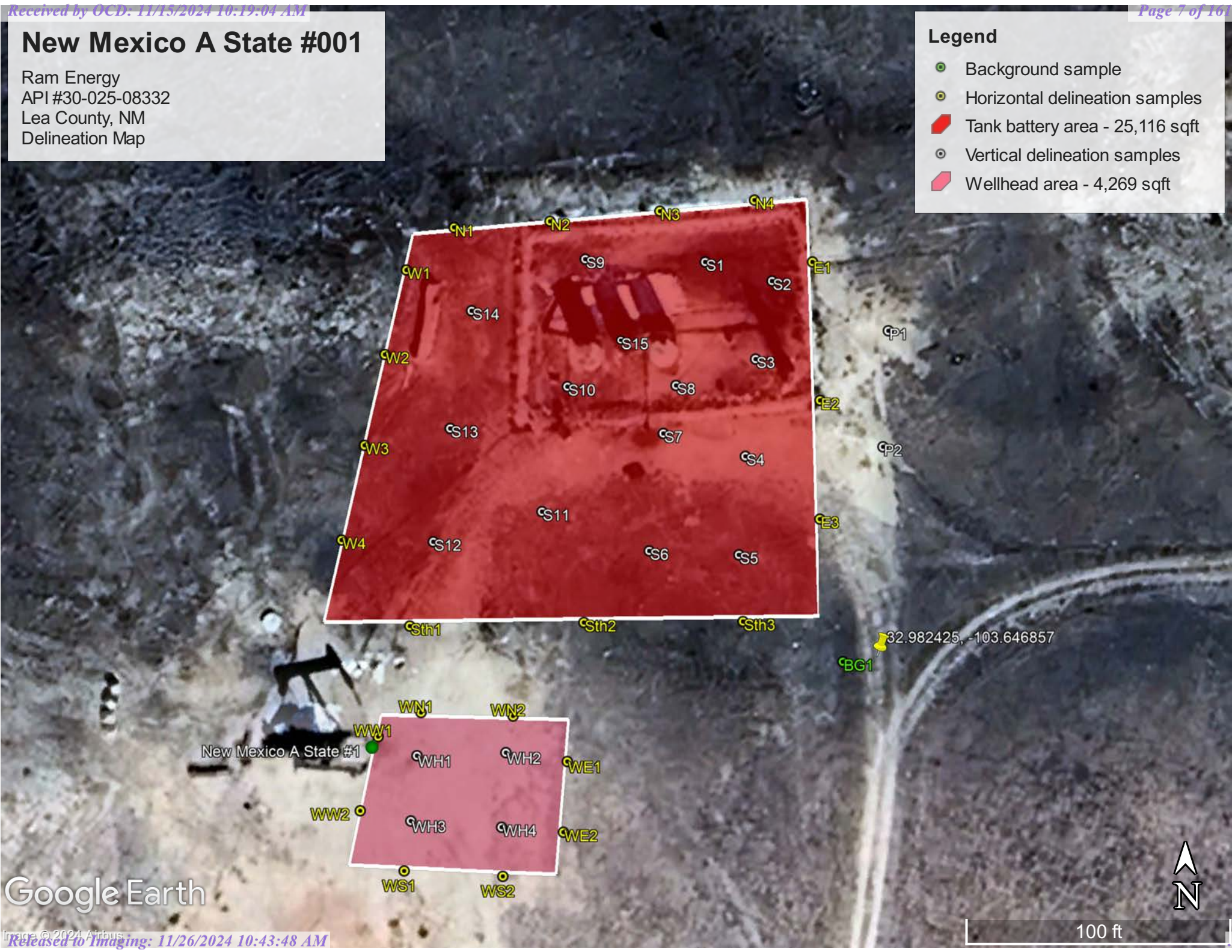
Sample ID	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH	CI mg/kg
E1 Comp	0-4'	ND	ND	ND	ND	ND	0	ND
E2 Comp	0-4'	ND	ND	ND	ND	ND	0	ND
E3 Comp	0-4'	ND	ND	ND	ND	ND	0	ND
Sth1 Comp	0-4'	ND	ND	ND	ND	ND	0	ND
Sth2 Comp	0-4'	ND	ND	ND	ND	ND	0	ND
Sth3 Comp	0-4'	ND	ND	ND	ND	ND	0	ND
W1 Comp	0-4'	ND	ND	ND	ND	ND	0	ND
W2 Comp	0-4'	ND	ND	ND	ND	ND	0	ND
W3 Comp	0-4'	ND	ND	ND	ND	ND	0	ND
W4 Comp	0-4'	ND	ND	ND	ND	ND	0	ND
WH1 Surface	8"	ND	ND	ND	108	107	215	304
WH1 6'	6'	ND	ND	ND	ND	ND	0	ND
WH2 Surface	8"	ND	ND	ND	ND	ND	0	ND
WH2 4'	4'	ND	ND	ND	ND	ND	0	ND
WH3 Surface	8"	ND	ND	ND	ND	ND	0	ND
WH3 4'	4'	ND	ND	ND	ND	ND	0	ND
WH4 Surface	8"	ND	ND	ND	ND	ND	0	ND
WH4 4'	4'	ND	ND	ND	ND	ND	0	ND
WW1 Surface	8"	ND	ND	ND	224	171	395	304
WW2 Comp	0-4'	ND	ND	ND	ND	ND	0	ND
WN1 Comp	0-4'	ND	ND	ND	ND	ND	0	ND
WN2 Comp	0-4'	ND	ND	ND	ND	ND	0	ND
WE1 Comp	0-4'	ND	ND	ND	ND	ND	0	ND
WE2 Comp	0-4'	ND	ND	ND	ND	ND	0	ND
WS1 Comp	0-4'	ND	ND	ND	ND	ND	0	ND
WS2 Comp	0-4'	ND	ND	ND	ND	ND	0	ND
BG1	1'	ND	ND	ND	ND	ND	0	ND

New Mexico A State #001

Ram Energy
API #30-025-08332
Lea County, NM
Delineation Map

Legend

- Background sample
- Horizontal delineation samples
- Tank battery area - 25,116 sqft
- Vertical delineation samples
- Wellhead area - 4,269 sqft



Google Earth

New Mexico A State #001

Ram Energy, LLC
API #30-025-08332
Lea County, NM
Location Map

Legend

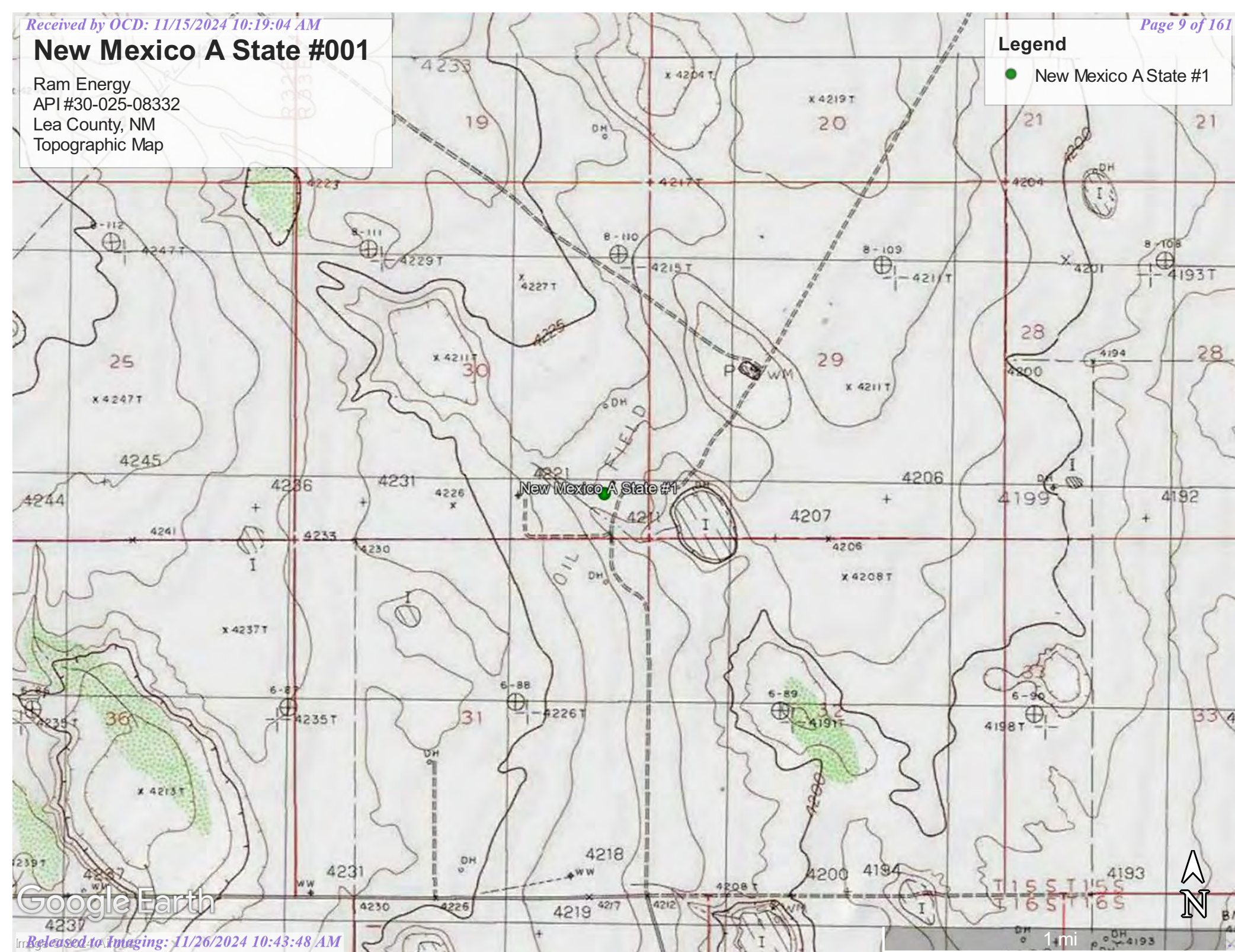
● New Mexico A State #1



Google Earth

Ram Energy
API #30-025-08332
Lea County, NM
Topographic Map




- New Mexico A State #1



New Mexico A State #001

Ram Energy, LLC
API #30-025-08332
Lea County, NM
Karst Map

Legend

-  High Karst
-  Low Karst
-  Medium Karst

New Mexico A State #1

118

457

457

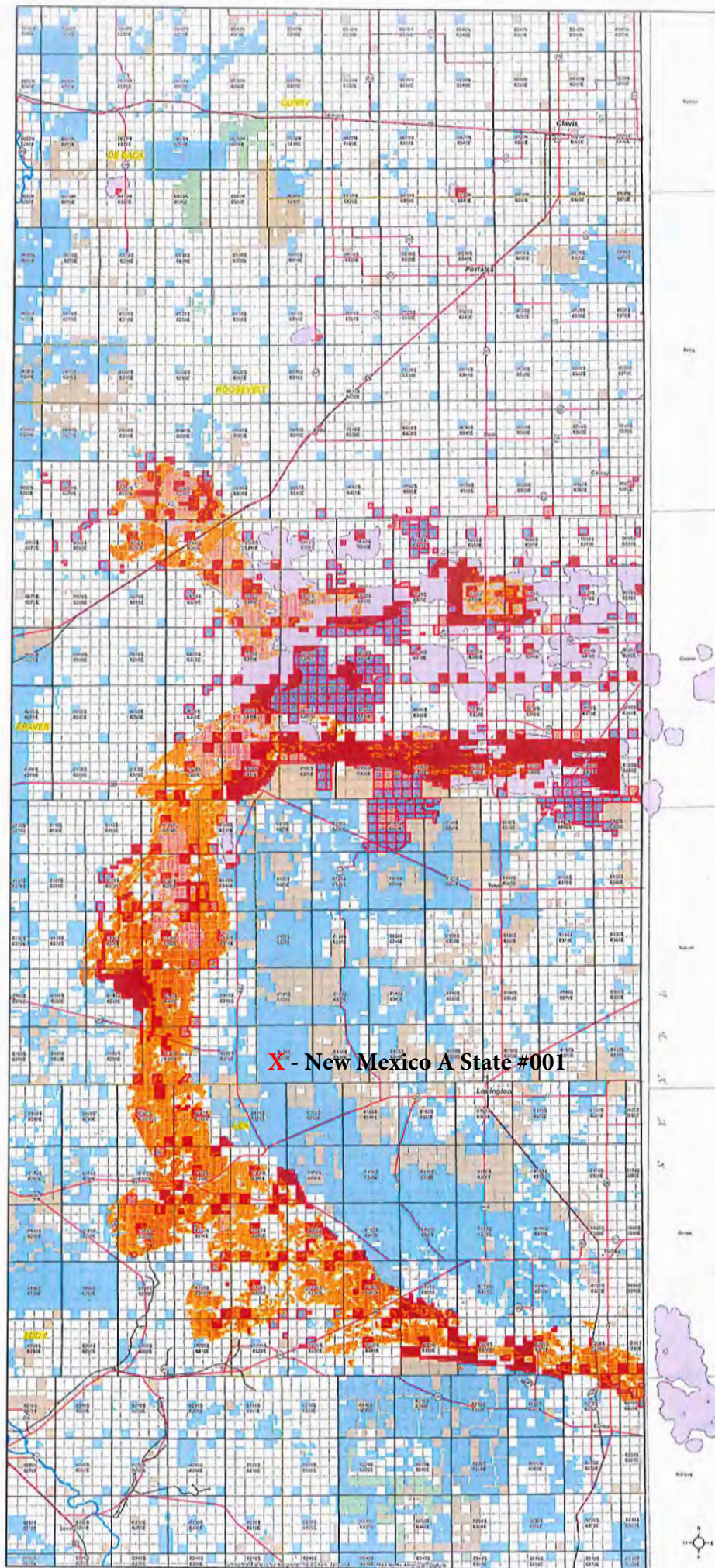
82



4 mi

Google Earth

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NEW MEXICO
STATE LAND OFFICE
When we Take Care of our Land, our Land Takes Care of us!

Ray Powell, M.S., D.V.M.
Commissioner of Public Lands
505-827-5760
www.nmstatelands.org

March 20, 2014 Revisions
to Lesser Prairie-Chicken
and Sand Dune
Sagebrush Lizard
CCAA CI-OGOP-025



Legend

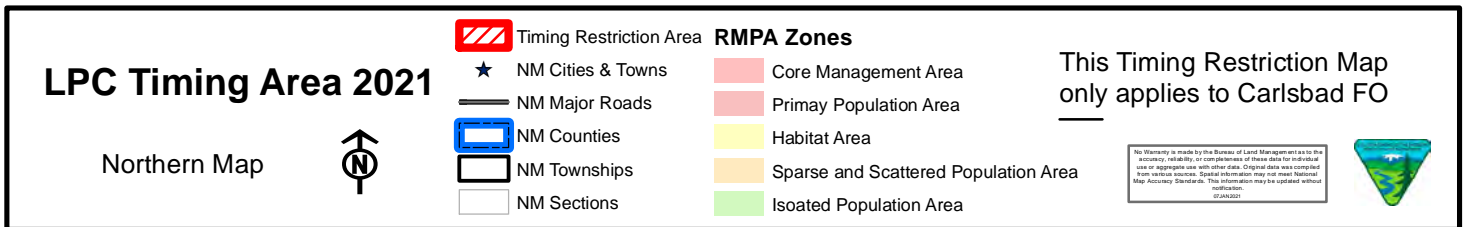
- Additional State Trust Lands Inclusion
- Rivers
- Towns
- County Seats
- Roads
 - Interstate Highway
 - US Highway
 - State Highway
- Railroads
- Trust Lands within CCAA, March 2012
- Surface Estate
- Subsurface Estate
- Surface and Subsurface Estate
- Core Habitat, Lesser Prairie Chicken
- Updated Sand Dune Lizard Habitat



Reference Map

The New Mexico State Land Office assumes no responsibility or liability for, or in connection with, the accuracy, reliability or use of the information provided here, in State Land Office data layers or any other data layer.






Created with ArcGIS 10.0, March 2014
Updated with New CCAA Amendments 2/2/2015
Applied to New Mexico State Lands Inventory 10/1/2015
1000 Office Geographic Information Center - Denver, Colorado
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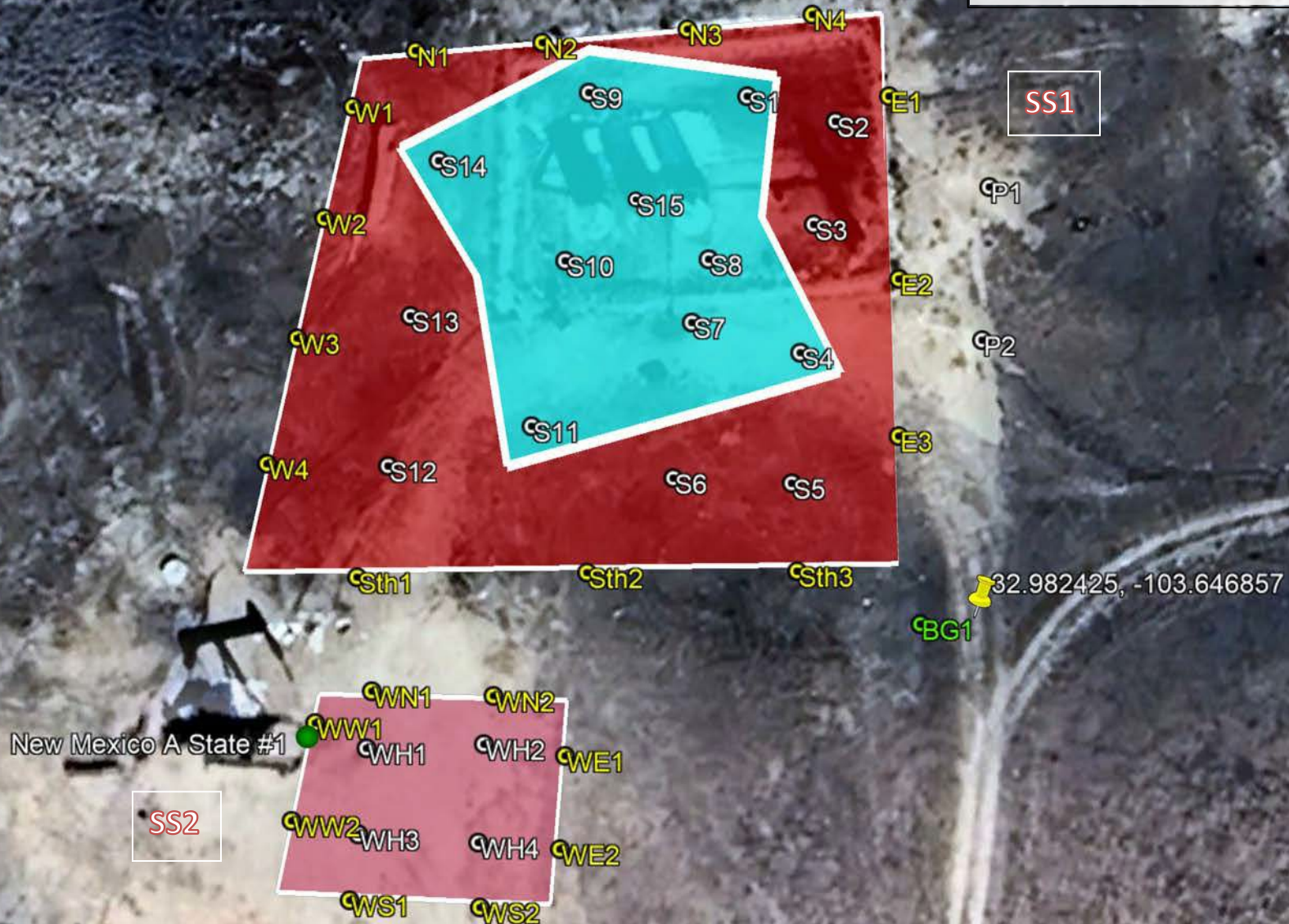


New Mexico A State #1

Ram Energy
API # 30-025-08332
Lea County, NM
Proposed Remediation Map

Legend

-  1 - 1.5' Proposed Remediation - 9,357 sqft
-  sqft Horizontal delineation samples Tank
-  battery area - 25,116 sqft
-  Vertical delineation samples
-  Wellhead area - 4,269 sqft



2000 ft

Google Earth

Appendix A

Water Surveys:

OSE

USGS

Surface Water Map

Wetlands Map

Fema Flood Map



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

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

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
L 03967 S		L	LE	2	2	31	15S	33E		626383	3649739*	400	280	280	0
L 06610		L	LE	2	2	4	30	15S	33E	626471	3650642*	510	233	160	73
L 13787 POD4		L	LE	4	2	2	31	15S	33E	626519	3649643	516	280	149	131
L 07334		L	LE	1	2	3	29	15S	33E	627076	3650652*	865	150	123	27
L 09570		L	LE	2	1	32	15S	33E		627187	3649748*	898	250	146	104
L 03967 S2		L	LE	4	1	32	15S	33E		627193	3649346*	1137	244	244	0
L 13787 POD5		L	LE	3	4	2	32	15S	33E	627194	3649239	1215	240	128	112
L 04565		L	LE	4	31	15S	33E			626198	3648727*	1424	272	80	192
L 03967		L	LE	4	4	3	31	15S	33E	625694	3648420*	1850	264	155	109
L 06542		L	LE	3	3	3	28	15S	33E	628289	3650064*	1912	222	124	98
L 03967 X	R	L	LE	3	3	31	15S	33E		625193	3648517*	2009	305	203	102
L 03967 POD7		L	LE	3	3	31	15S	33E		625082	3648337	2220	300	120	180
L 03967 POD6		L	LE	3	3	3	31	15S	33E	625061	3648334	2235	295	175	120
L 06475		L	LE	1	1	1	02	16S	33E	626985	3647354*	2851	235	125	110
L 04765		L	LE	4	3	36	15S	32E		623986	3648502*	2899	273	160	113

Average Depth to Water: **158 feet**

Minimum Depth: **80 feet**

Maximum Depth: **280 feet**

Record Count: 15

UTM NAD83 Radius Search (in meters):

Easting (X): 626378.2

Northing (Y): 3650139.78

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.

6/20/24 4:39 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER




New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
L	03967 S	2	2	31	15S	33E	626383	3649739*	

x

Driller License: 225 **Driller Company:** RODGERS & CO., INC.

Driller Name:

Drill Start Date:	Drill Finish Date:	08/21/2015	Plug Date:
Log File Date:	PCW Rcv Date:	10/05/2017	Source: Shallow
Pump Type: SUBMER	Pipe Discharge Size: 3	Estimated Yield: 50 GPM	
Casing Size: 20.00	Depth Well: 280 feet	Depth Water: 280 feet	

x

Meter Number:	18635	Meter Make:	MCROMETER
Meter Serial Number:	UM20160703	Meter Multiplier:	1.0000
Number of Dials:	9	Meter Type:	Diversion
Unit of Measure:	Gallons	Return Flow Percent:	
Usage Multiplier:		Reading Frequency:	Quarterly

x

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount Online
01/01/2020	2020	2212036	A	RPT		0
03/31/2020	2020	3198167	A	RPT		3.026
09/30/2020	2020	5450688	A	dd		6.913
03/31/2021	2021	7266624	A	dd		5.573
06/30/2021	2021	9240428	A	dd		6.057
09/30/2021	2021	12610443	A	dd		10.342
12/30/2021	2021	18236092	A	dd		17.264
06/30/2022	2022	21684669	A	dd		10.583
09/30/2022	2022	24237119	A	dd		7.833
04/04/2023	2023	34920641	A	dd		32.787
10/02/2023	2023	42489797	A	WEB		23.229 X
01/02/2024	2023	44318673	A	WEB		5.613 X
04/01/2024	2024	47905207	A	WEB		11.007 X

x

**YTD Meter Amounts:	Year	Amount
	2020	9.939
	2021	39.236
	2022	18.416
	2023	61.629
	2024	11.007

x

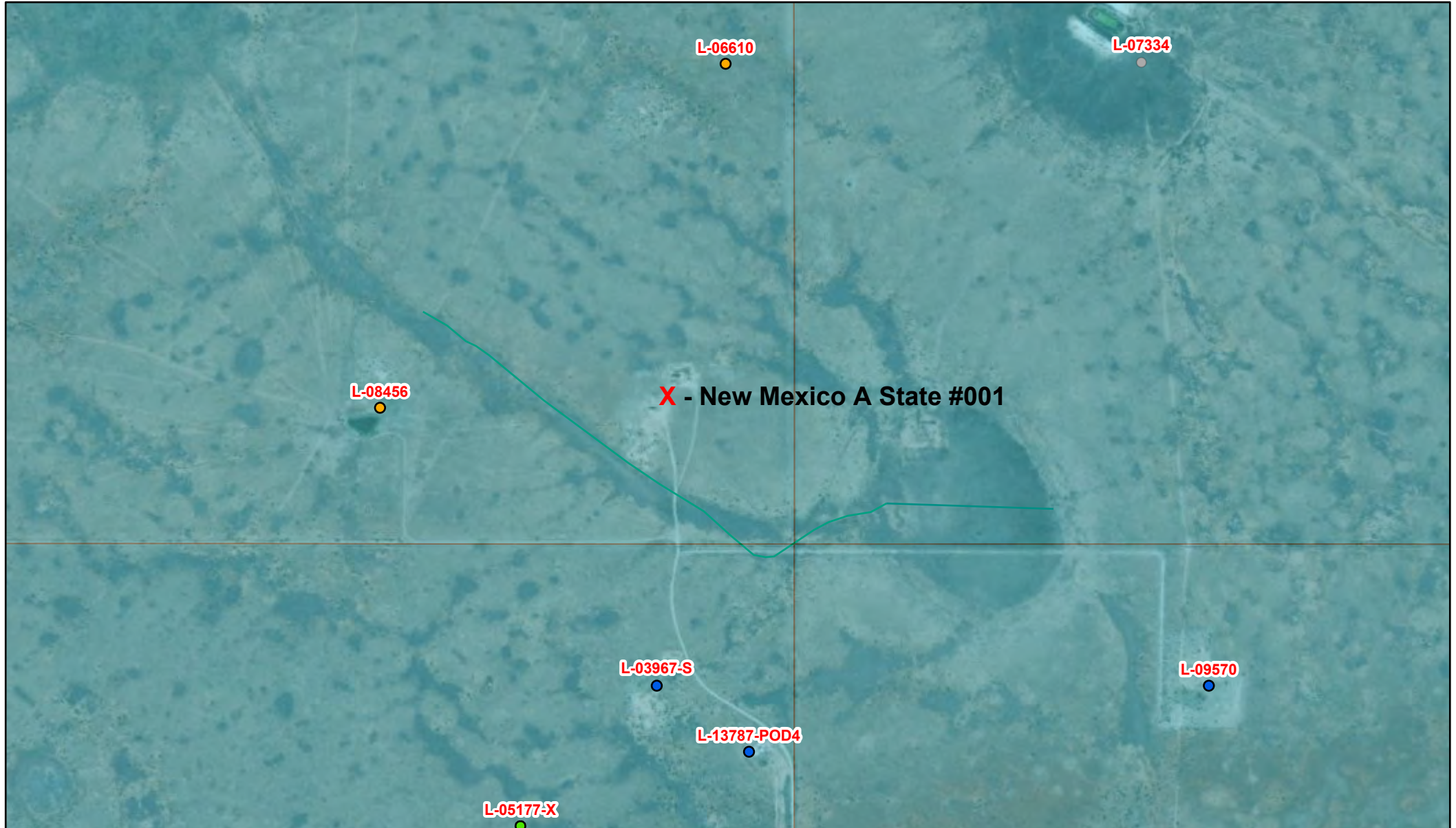
*UTM location was derived from PLSS - see Help

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6/21/24 12:47 PM

POINT OF DIVERSION SUMMARY

OSE POD Location Map



6/20/2024, 5:33:34 PM

GIS WATERS PODs

● Active

● Pending

● Capped

●

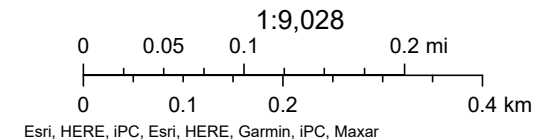
OSE District Boundary

New Mexico State Trust Lands NHD Flowlines

Both Estates

Artificial Path

Stream River



National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater

Geographic Area:

United States

GO

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- 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 =

- 325852103382901

Minimum number of levels = 1

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

USGS 325852103382901 15S.33E.29.331244

Available data for this site

Groundwater: Field measurements

GO

Lea County, New Mexico

Hydrologic Unit Code 12080003

Latitude 32°59'00", Longitude 103°38'34" NAD27

Land-surface elevation 4,210.00 feet above NGVD29

This well is completed in the High Plains aquifer (N100HGHPLN) national aquifer.

This well is completed in the Ogallala Formation (121OGLL) local aquifer.

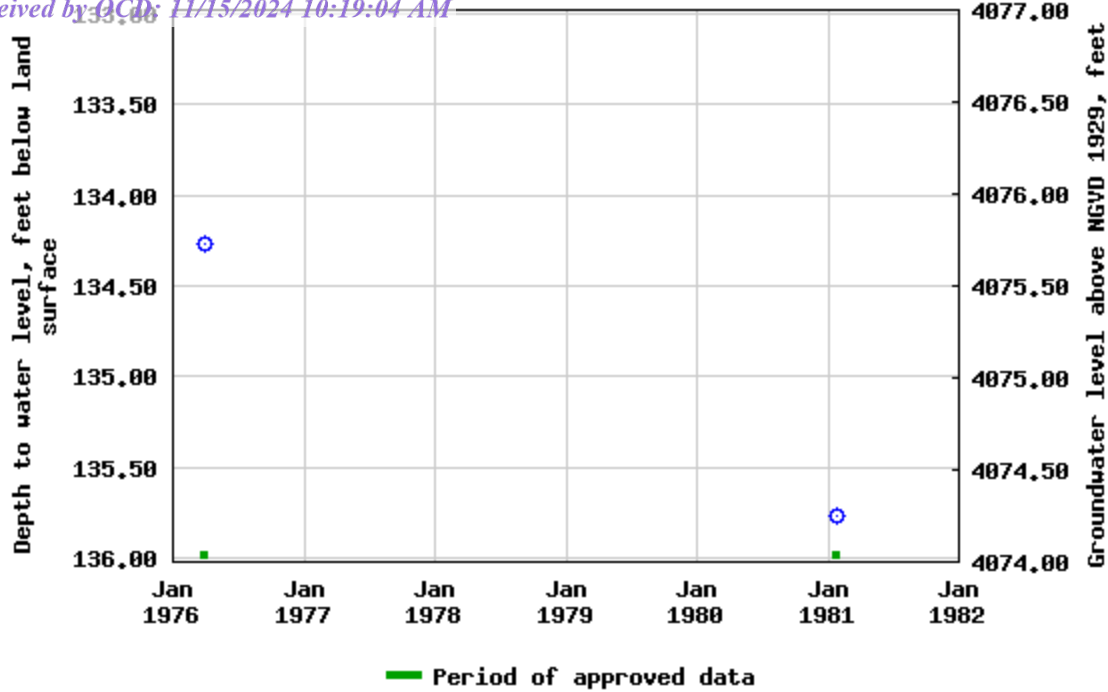
Output formats

[Table of data](#)

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Title: Groundwater for USA: Water Levels
URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>



Page Contact Information: [USGS Water Data Support Team](#)
Page Last Modified: 2024-06-20 18:31:28 EDT
0.54 0.47 nadww01

National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater

Geographic Area:

United States

GO

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Search Results -- 1 sites found

site_no list =

- 325855103384001

Minimum number of levels = 1

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USGS 325855103384001 15S.33E.30.42321

Available data for this site

Groundwater: Field measurements

GO

Lea County, New Mexico

Hydrologic Unit Code 12080003

Latitude 32°59'08", Longitude 103°38'52" NAD27

Land-surface elevation 4,217.00 feet above NGVD29

The depth of the well is 233 feet below land surface.

This well is completed in the High Plains aquifer (N100HGHPLN) national aquifer.

This well is completed in the Ogallala Formation (121OGLL) local aquifer.

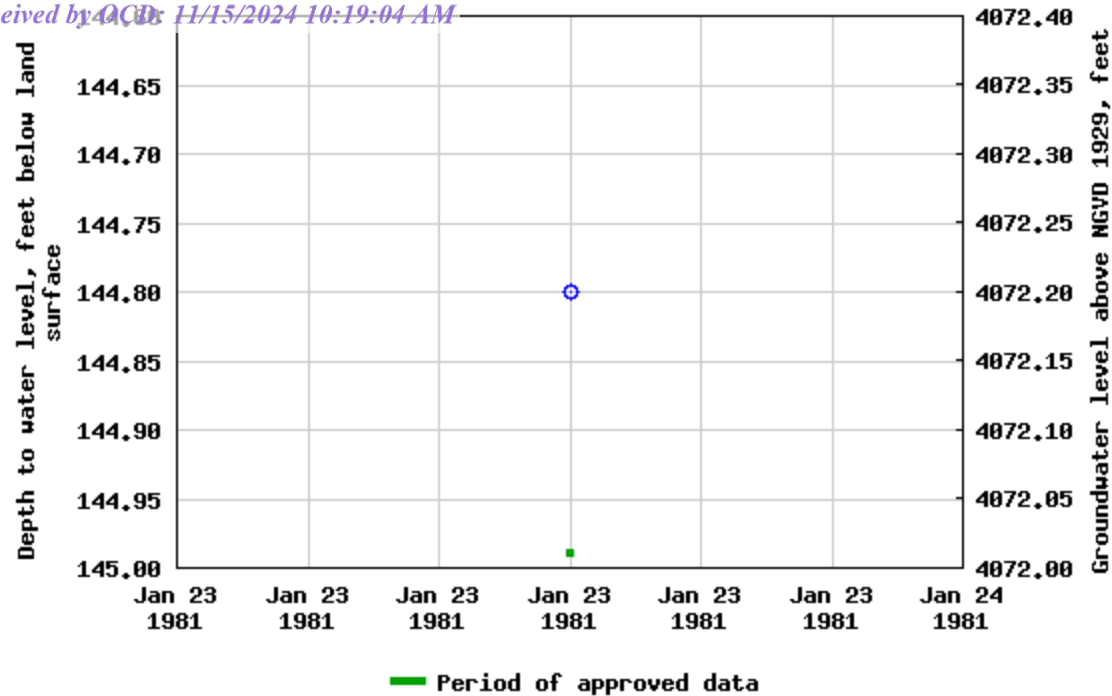
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Title: Groundwater for USA: Water Levels
URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>



Page Contact Information: [USGS Water Data Support Team](#)
Page Last Modified: 2024-06-20 18:31:52 EDT
0.53 0.47 nadww01





National Water Information System: Mapper



New Mexico A State #001

Ram Energy, LLC
API #30-025-08332
Lea County, NM
Surface Water Map

Legend

-  18.3 Miles
-  Chaparral Park Pond

New Mexico A State #1

Lovington

Chaparral Park Pond

Google Earth

Image © 2024 Airbus

8 mi





Wetlands Map



June 20, 2024

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

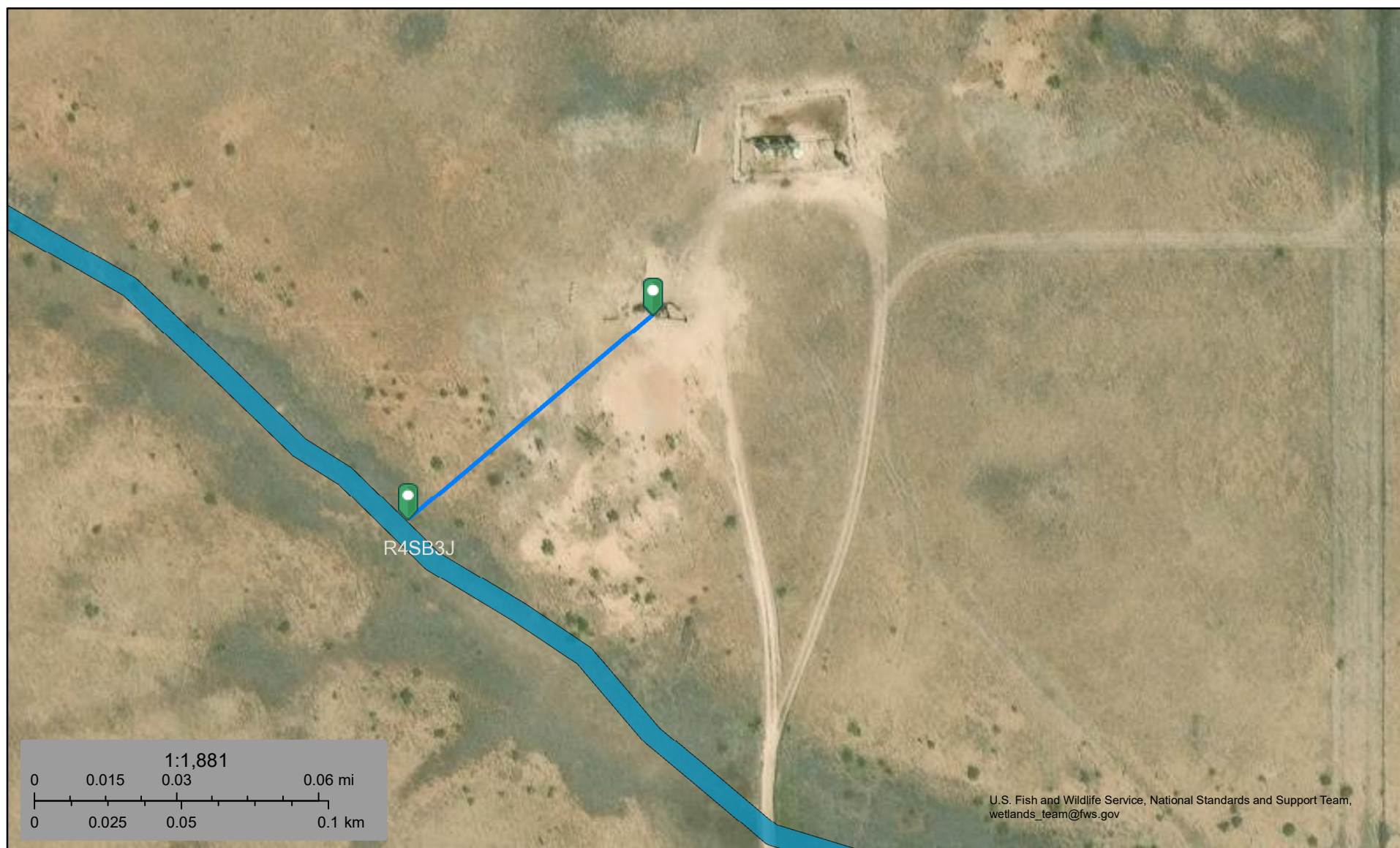
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond

- Lake
- Other
- Riverine

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



Wetland Riverine



November 4, 2024

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

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

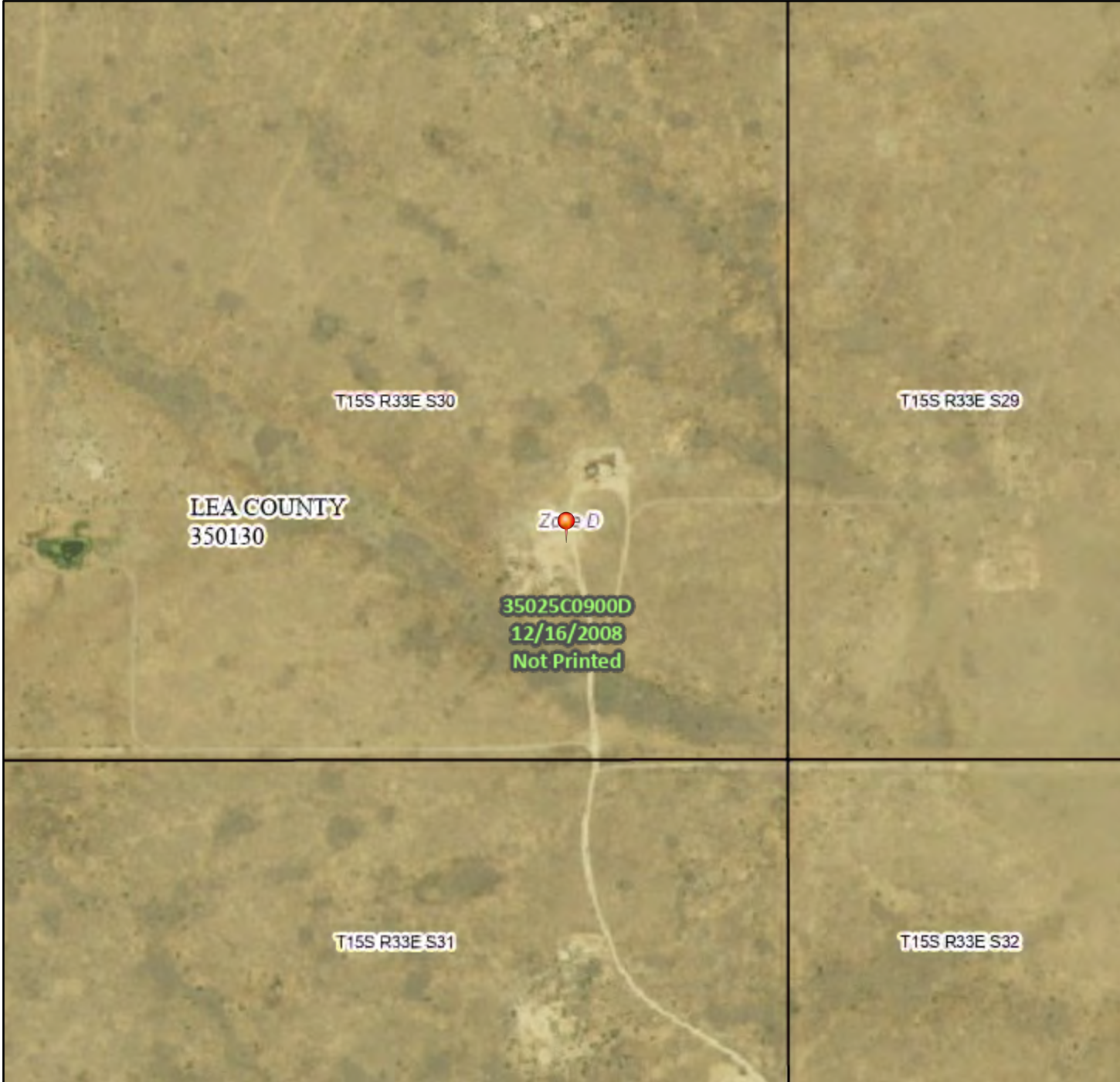
- Lake
- Other
- Riverine

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

National Flood Hazard Layer FIRMette



103°39'9"W 32°59'11"N



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

1:6,000

103°38'32"W 32°58'41"N

Released to Imaging: 11/26/2024 10:43:48 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
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 6/20/2024 at 6:43 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: Kimbrough-Lea complex, dry, 0 to 3 percent slopes---Lea County, New Mexico

Lea County, New Mexico

KU—Kimbrough-Lea complex, dry, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 2tw46

Elevation: 2,500 to 4,800 feet

Mean annual precipitation: 14 to 16 inches

Mean annual air temperature: 57 to 63 degrees F

Frost-free period: 180 to 220 days

Farmland classification: Not prime farmland

Map Unit Composition

Kimbrough and similar soils: 45 percent

Lea and similar soils: 25 percent

Minor components: 30 percent

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

Description of Kimbrough

Setting

Landform: Playa rims, plains

Down-slope shape: Convex, linear

Across-slope shape: Concave, linear

Parent material: Loamy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 3 inches: gravelly loam

Bw - 3 to 10 inches: loam

Bkkm1 - 10 to 16 inches: cemented material

Bkkm2 - 16 to 80 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: 4 to 18 inches to petrocalcic

Drainage class: Well drained

Runoff class: Very high

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.01 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 95 percent

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

Sodium adsorption ratio, maximum: 1.0

Available water supply, 0 to 60 inches: Very low (about 1.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Map Unit Description: Kimbrough-Lea complex, dry, 0 to 3 percent slopes---Lea County, New Mexico

Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: D
Ecological site: R077DY049TX - Very Shallow 12-17" PZ
Hydric soil rating: No

Description of Lea

Setting

Landform: Plains
Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Calcareous, loamy eolian deposits from the blackwater draw formation of pleistocene age over indurated caliche of pliocene age

Typical profile

A - 0 to 10 inches: loam
Bk - 10 to 18 inches: loam
Bkk - 18 to 26 inches: gravelly fine sandy loam
Bkkm - 26 to 80 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 22 to 30 inches to petrocalcic
Drainage class: Well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 90 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 3.0
Available water supply, 0 to 60 inches: Very low (about 2.9 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: D
Ecological site: R077DY047TX - Sandy Loam 12-17" PZ
Hydric soil rating: No

Minor Components

Kenhill

Percent of map unit: 12 percent
Landform: Plains
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: R077DY038TX - Clay Loam 12-17" PZ
Hydric soil rating: No

Map Unit Description: Kimbrough-Lea complex, dry, 0 to 3 percent slopes---Lea County, New Mexico

Douro

Percent of map unit: 12 percent

Landform: Plains

Down-slope shape: Linear

Across-slope shape: Linear

Ecological site: R077DY047TX - Sandy Loam 12-17" PZ

Other vegetative classification: Unnamed (G077DH000TX)

Hydric soil rating: No

Spraberry

Percent of map unit: 6 percent

Landform: Playa rims, plains

Down-slope shape: Convex, linear

Across-slope shape: Linear

Ecological site: R077DY049TX - Very Shallow 12-17" PZ

Other vegetative classification: Unnamed (G077DH000TX)

Hydric soil rating: No

Data Source Information

Soil Survey Area: Lea County, New Mexico

Survey Area Data: Version 20, Sep 6, 2023



Soil Map—Lea County, New Mexico



Natural Resources
Conservation Service

Web Soil Survey
National Cooperative Soil Survey

6/20/2024
Page 1 of 3

Soil Map—Lea County, 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: Lea County, New Mexico

Survey Area Data: Version 20, Sep 6, 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
KU	Kimbrough-Lea complex, dry, 0 to 3 percent slopes	7.2	100.0%
Totals for Area of Interest		7.2	100.0%

New Mexico A State #001

Ram Energy, LLC
API #30-025-08332
Lea County, NM
Geologic Unit Map

Legend

-  Eolian and piedmont deposits
-  Ogallala Formation
-  Piedmont alluvial deposits

New Mexico A State #1

Google Earth

Image © 2024 Airbus



7 mi

Appendix C

Photographic Documentation













Appendix D

Laboratory Reports

Date Reported: 8/8/24

Tom Bynum
PO Box 247
Plains, TX 79355-0247



Project Name: New Mexico A State #1
Workorder: E408009
Date Received: 8/2/2024 8:00:16AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/2/2024 8:00:16AM, under the Project Name: New Mexico A State #1.

The analytical test results summarized in this report with the Project Name: New Mexico A State #1 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
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Cell: 775-287-1762
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Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	New Mexico A State #1	Reported: 08/08/24 10:38
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S1-Surface	E408009-01A	Soil	07/30/24	08/02/24	Glass Jar, 2 oz.
S1-2'	E408009-02A	Soil	07/30/24	08/02/24	Glass Jar, 2 oz.
S2-Surface	E408009-03A	Soil	07/30/24	08/02/24	Glass Jar, 2 oz.
S2-2'	E408009-04A	Soil	07/30/24	08/02/24	Glass Jar, 2 oz.
S3-Surface	E408009-05A	Soil	07/30/24	08/02/24	Glass Jar, 2 oz.
S3-2'	E408009-06A	Soil	07/30/24	08/02/24	Glass Jar, 2 oz.
S4-Surface	E408009-07A	Soil	07/30/24	08/02/24	Glass Jar, 2 oz.
S4-2'	E408009-08A	Soil	07/30/24	08/02/24	Glass Jar, 2 oz.
S5-Surface	E408009-09A	Soil	07/30/24	08/02/24	Glass Jar, 2 oz.
S5-2'	E408009-10A	Soil	07/30/24	08/02/24	Glass Jar, 2 oz.
S6-Surface	E408009-11A	Soil	07/30/24	08/02/24	Glass Jar, 2 oz.
S6-2'	E408009-12A	Soil	07/30/24	08/02/24	Glass Jar, 2 oz.
S7-Surface	E408009-13A	Soil	07/30/24	08/02/24	Glass Jar, 2 oz.
S7-2'	E408009-14A	Soil	07/30/24	08/02/24	Glass Jar, 2 oz.
S8-Surface	E408009-15A	Soil	07/30/24	08/02/24	Glass Jar, 2 oz.
S8-2'	E408009-16A	Soil	07/30/24	08/02/24	Glass Jar, 2 oz.
S9-Surface	E408009-17A	Soil	07/30/24	08/02/24	Glass Jar, 2 oz.
S9-2'	E408009-18A	Soil	07/30/24	08/02/24	Glass Jar, 2 oz.
S10-Surface	E408009-19A	Soil	07/30/24	08/02/24	Glass Jar, 2 oz.
S10-2'	E408009-20A	Soil	07/30/24	08/02/24	Glass Jar, 2 oz.



Sample Data

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

Project Name: New Mexico A State #1
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
8/8/2024 10:38:46AM

S1-Surface

E408009-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2431132	
Benzene	ND	0.0250	1	08/02/24	08/02/24	
Ethylbenzene	ND	0.0250	1	08/02/24	08/02/24	
Toluene	ND	0.0250	1	08/02/24	08/02/24	
o-Xylene	ND	0.0250	1	08/02/24	08/02/24	
p,m-Xylene	ND	0.0500	1	08/02/24	08/02/24	
Total Xylenes	ND	0.0250	1	08/02/24	08/02/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		89.0 %	70-130	08/02/24	08/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2431132	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/02/24	08/02/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		102 %	70-130	08/02/24	08/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2431134	
Diesel Range Organics (C10-C28)	2310	500	20	08/02/24	08/02/24	
Oil Range Organics (C28-C36)	2070	1000	20	08/02/24	08/02/24	
<i>Surrogate: n-Nonane</i>		149 %	50-200	08/02/24	08/02/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2431130	
Chloride	371	20.0	1	08/02/24	08/02/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	New Mexico A State #1	Reported: 8/8/2024 10:38:46AM
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

S1-2'

E408009-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2431132	
Benzene	ND	0.0250	1	08/02/24	08/02/24	
Ethylbenzene	ND	0.0250	1	08/02/24	08/02/24	
Toluene	ND	0.0250	1	08/02/24	08/02/24	
o-Xylene	ND	0.0250	1	08/02/24	08/02/24	
p,m-Xylene	ND	0.0500	1	08/02/24	08/02/24	
Total Xylenes	ND	0.0250	1	08/02/24	08/02/24	
Surrogate: 4-Bromochlorobenzene-PID	89.5 %	70-130		08/02/24	08/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2431132	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/02/24	08/02/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	103 %	70-130		08/02/24	08/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2431134	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/02/24	08/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/02/24	08/02/24	
Surrogate: n-Nonane	111 %	50-200		08/02/24	08/02/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2431130	
Chloride	ND	20.0	1	08/02/24	08/02/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	New Mexico A State #1	Reported: 8/8/2024 10:38:46AM
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

S2-Surface
E408009-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2431132	
Benzene	ND	0.0250	1	08/02/24	08/02/24	
Ethylbenzene	ND	0.0250	1	08/02/24	08/02/24	
Toluene	ND	0.0250	1	08/02/24	08/02/24	
o-Xylene	ND	0.0250	1	08/02/24	08/02/24	
p,m-Xylene	ND	0.0500	1	08/02/24	08/02/24	
Total Xylenes	ND	0.0250	1	08/02/24	08/02/24	
Surrogate: 4-Bromochlorobenzene-PID	89.6 %	70-130		08/02/24	08/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2431132	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/02/24	08/02/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	104 %	70-130		08/02/24	08/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2431134	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/02/24	08/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/02/24	08/02/24	
Surrogate: n-Nonane	108 %	50-200		08/02/24	08/02/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2431130	
Chloride	206	20.0	1	08/02/24	08/02/24	



Sample Data

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

Project Name: New Mexico A State #1
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
8/8/2024 10:38:46AM

S2-2'

E408009-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2431132	
Benzene	ND	0.0250	1	08/02/24	08/02/24	
Ethylbenzene	ND	0.0250	1	08/02/24	08/02/24	
Toluene	ND	0.0250	1	08/02/24	08/02/24	
o-Xylene	ND	0.0250	1	08/02/24	08/02/24	
p,m-Xylene	ND	0.0500	1	08/02/24	08/02/24	
Total Xylenes	ND	0.0250	1	08/02/24	08/02/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	88.7 %	70-130		08/02/24	08/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2431132	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/02/24	08/02/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	105 %	70-130		08/02/24	08/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2431134	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/02/24	08/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/02/24	08/02/24	
<i>Surrogate: n-Nonane</i>						
	109 %	50-200		08/02/24	08/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2431130	
Chloride	21.2	20.0	1	08/02/24	08/02/24	



Sample Data

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

Project Name: New Mexico A State #1
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
8/8/2024 10:38:46AM

S3-Surface

E408009-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2431132	
Benzene	ND	0.0250	1	08/02/24	08/02/24	
Ethylbenzene	ND	0.0250	1	08/02/24	08/02/24	
Toluene	ND	0.0250	1	08/02/24	08/02/24	
o-Xylene	ND	0.0250	1	08/02/24	08/02/24	
p,m-Xylene	ND	0.0500	1	08/02/24	08/02/24	
Total Xylenes	ND	0.0250	1	08/02/24	08/02/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.2 %	70-130		08/02/24	08/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2431132	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/02/24	08/02/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	105 %	70-130		08/02/24	08/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2431134	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/02/24	08/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/02/24	08/02/24	
<i>Surrogate: n-Nonane</i>						
	111 %	50-200		08/02/24	08/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2431130	
Chloride	124	20.0	1	08/02/24	08/02/24	



Sample Data

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

Project Name: New Mexico A State #1
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
8/8/2024 10:38:46AM

S3-2'

E408009-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2431132	
Benzene	ND	0.0250	1	08/02/24	08/02/24	
Ethylbenzene	ND	0.0250	1	08/02/24	08/02/24	
Toluene	ND	0.0250	1	08/02/24	08/02/24	
o-Xylene	ND	0.0250	1	08/02/24	08/02/24	
p,m-Xylene	ND	0.0500	1	08/02/24	08/02/24	
Total Xylenes	ND	0.0250	1	08/02/24	08/02/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	88.3 %	70-130		08/02/24	08/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2431132	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/02/24	08/02/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	104 %	70-130		08/02/24	08/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2431134	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/02/24	08/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/02/24	08/02/24	
<i>Surrogate: n-Nonane</i>						
	107 %	50-200		08/02/24	08/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2431130	
Chloride	126	20.0	1	08/02/24	08/02/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	New Mexico A State #1	Reported: 8/8/2024 10:38:46AM
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

S4-Surface
E408009-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2431132	
Benzene	ND	0.0250	1	08/02/24	08/03/24	
Ethylbenzene	ND	0.0250	1	08/02/24	08/03/24	
Toluene	ND	0.0250	1	08/02/24	08/03/24	
o-Xylene	ND	0.0250	1	08/02/24	08/03/24	
p,m-Xylene	ND	0.0500	1	08/02/24	08/03/24	
Total Xylenes	ND	0.0250	1	08/02/24	08/03/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	87.6 %	70-130		08/02/24	08/03/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2431132	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/02/24	08/03/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	105 %	70-130		08/02/24	08/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2431134	
Diesel Range Organics (C10-C28)	86.7	25.0	1	08/02/24	08/06/24	
Oil Range Organics (C28-C36)	159	50.0	1	08/02/24	08/06/24	
<i>Surrogate: n-Nonane</i>						
	105 %	50-200		08/02/24	08/06/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2431130	
Chloride	226	20.0	1	08/02/24	08/02/24	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	New Mexico A State #1	Reported: 8/8/2024 10:38:46AM
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

S4-2'

E408009-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2431132	
Benzene	ND	0.0250	1	08/02/24	08/03/24	
Ethylbenzene	ND	0.0250	1	08/02/24	08/03/24	
Toluene	ND	0.0250	1	08/02/24	08/03/24	
o-Xylene	ND	0.0250	1	08/02/24	08/03/24	
p,m-Xylene	ND	0.0500	1	08/02/24	08/03/24	
Total Xylenes	ND	0.0250	1	08/02/24	08/03/24	
Surrogate: 4-Bromochlorobenzene-PID	88.4 %	70-130		08/02/24	08/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2431132	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/02/24	08/03/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	104 %	70-130		08/02/24	08/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2431134	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/02/24	08/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/02/24	08/02/24	
Surrogate: n-Nonane	113 %	50-200		08/02/24	08/02/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2431130	
Chloride	54.9	20.0	1	08/02/24	08/03/24	



Sample Data

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

Project Name: New Mexico A State #1
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
8/8/2024 10:38:46AM

S5-Surface

E408009-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2431132	
Benzene	ND	0.0250	1	08/02/24	08/03/24	
Ethylbenzene	ND	0.0250	1	08/02/24	08/03/24	
Toluene	ND	0.0250	1	08/02/24	08/03/24	
o-Xylene	ND	0.0250	1	08/02/24	08/03/24	
p,m-Xylene	ND	0.0500	1	08/02/24	08/03/24	
Total Xylenes	ND	0.0250	1	08/02/24	08/03/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	88.0 %	70-130		08/02/24	08/03/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2431132	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/02/24	08/03/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	106 %	70-130		08/02/24	08/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2431134	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/02/24	08/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/02/24	08/03/24	
<i>Surrogate: n-Nonane</i>						
	110 %	50-200		08/02/24	08/03/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2431130	
Chloride	ND	20.0	1	08/02/24	08/03/24	



Sample Data

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

Project Name: New Mexico A State #1
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
8/8/2024 10:38:46AM

S5-2'

E408009-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2431132	
Benzene	ND	0.0250	1	08/02/24	08/03/24	
Ethylbenzene	ND	0.0250	1	08/02/24	08/03/24	
Toluene	ND	0.0250	1	08/02/24	08/03/24	
o-Xylene	ND	0.0250	1	08/02/24	08/03/24	
p,m-Xylene	ND	0.0500	1	08/02/24	08/03/24	
Total Xylenes	ND	0.0250	1	08/02/24	08/03/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	88.1 %	70-130		08/02/24	08/03/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2431132	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/02/24	08/03/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	105 %	70-130		08/02/24	08/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2431134	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/02/24	08/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/02/24	08/03/24	
<i>Surrogate: n-Nonane</i>						
	110 %	50-200		08/02/24	08/03/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2431130	
Chloride	ND	20.0	1	08/02/24	08/03/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	New Mexico A State #1	Reported: 8/8/2024 10:38:46AM
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

S6-Surface
E408009-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2431132	
Benzene	ND	0.0250	1	08/02/24	08/03/24	
Ethylbenzene	ND	0.0250	1	08/02/24	08/03/24	
Toluene	ND	0.0250	1	08/02/24	08/03/24	
o-Xylene	ND	0.0250	1	08/02/24	08/03/24	
p,m-Xylene	ND	0.0500	1	08/02/24	08/03/24	
Total Xylenes	ND	0.0250	1	08/02/24	08/03/24	
Surrogate: 4-Bromochlorobenzene-PID	88.1 %	70-130		08/02/24	08/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2431132	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/02/24	08/03/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	104 %	70-130		08/02/24	08/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2431134	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/02/24	08/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/02/24	08/03/24	
Surrogate: n-Nonane	112 %	50-200		08/02/24	08/03/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2431130	
Chloride	25.1	20.0	1	08/02/24	08/03/24	



Sample Data

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

Project Name: New Mexico A State #1
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
8/8/2024 10:38:46AM

S6-2'

E408009-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2431132
Benzene	ND	0.0250	1	08/02/24	08/03/24	
Ethylbenzene	ND	0.0250	1	08/02/24	08/03/24	
Toluene	ND	0.0250	1	08/02/24	08/03/24	
o-Xylene	ND	0.0250	1	08/02/24	08/03/24	
p,m-Xylene	ND	0.0500	1	08/02/24	08/03/24	
Total Xylenes	ND	0.0250	1	08/02/24	08/03/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	87.6 %	70-130		08/02/24	08/03/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2431132
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/02/24	08/03/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	105 %	70-130		08/02/24	08/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2431134
Diesel Range Organics (C10-C28)	ND	25.0	1	08/02/24	08/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/02/24	08/03/24	
<i>Surrogate: n-Nonane</i>						
	114 %	50-200		08/02/24	08/03/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2431130
Chloride	ND	20.0	1	08/02/24	08/03/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	New Mexico A State #1	Reported: 8/8/2024 10:38:46AM
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

S7-Surface
E408009-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2431132	
Benzene	ND	0.0250	1	08/02/24	08/03/24	
Ethylbenzene	ND	0.0250	1	08/02/24	08/03/24	
Toluene	ND	0.0250	1	08/02/24	08/03/24	
o-Xylene	ND	0.0250	1	08/02/24	08/03/24	
p,m-Xylene	ND	0.0500	1	08/02/24	08/03/24	
Total Xylenes	ND	0.0250	1	08/02/24	08/03/24	
Surrogate: 4-Bromochlorobenzene-PID	86.9 %	70-130		08/02/24	08/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2431132	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/02/24	08/03/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	103 %	70-130		08/02/24	08/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2431134	
Diesel Range Organics (C10-C28)	686	250	10	08/02/24	08/03/24	
Oil Range Organics (C28-C36)	871	500	10	08/02/24	08/03/24	
Surrogate: n-Nonane	121 %	50-200		08/02/24	08/03/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2431130	
Chloride	164	20.0	1	08/02/24	08/03/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	New Mexico A State #1	Reported: 8/8/2024 10:38:46AM
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

S7-2'

E408009-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2431132	
Benzene	ND	0.0250	1	08/02/24	08/03/24	
Ethylbenzene	ND	0.0250	1	08/02/24	08/03/24	
Toluene	ND	0.0250	1	08/02/24	08/03/24	
o-Xylene	ND	0.0250	1	08/02/24	08/03/24	
p,m-Xylene	ND	0.0500	1	08/02/24	08/03/24	
Total Xylenes	ND	0.0250	1	08/02/24	08/03/24	
Surrogate: 4-Bromochlorobenzene-PID	87.9 %	70-130		08/02/24	08/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2431132	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/02/24	08/03/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	104 %	70-130		08/02/24	08/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2431134	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/02/24	08/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/02/24	08/03/24	
Surrogate: n-Nonane	111 %	50-200		08/02/24	08/03/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2431130	
Chloride	ND	20.0	1	08/02/24	08/03/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	New Mexico A State #1	Reported: 8/8/2024 10:38:46AM
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

S8-Surface
E408009-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2431132	
Benzene	ND	0.0250	1	08/02/24	08/03/24	
Ethylbenzene	ND	0.0250	1	08/02/24	08/03/24	
Toluene	ND	0.0250	1	08/02/24	08/03/24	
o-Xylene	ND	0.0250	1	08/02/24	08/03/24	
p,m-Xylene	ND	0.0500	1	08/02/24	08/03/24	
Total Xylenes	ND	0.0250	1	08/02/24	08/03/24	
Surrogate: 4-Bromochlorobenzene-PID	86.6 %	70-130		08/02/24	08/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2431132	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/02/24	08/03/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	103 %	70-130		08/02/24	08/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2431134	
Diesel Range Organics (C10-C28)	1920	250	10	08/02/24	08/03/24	
Oil Range Organics (C28-C36)	1980	500	10	08/02/24	08/03/24	
Surrogate: n-Nonane	135 %	50-200		08/02/24	08/03/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2431130	
Chloride	75.9	20.0	1	08/02/24	08/03/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	New Mexico A State #1	Reported: 8/8/2024 10:38:46AM
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

S8-2'

E408009-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2431132	
Benzene	ND	0.0250	1	08/02/24	08/03/24	
Ethylbenzene	ND	0.0250	1	08/02/24	08/03/24	
Toluene	ND	0.0250	1	08/02/24	08/03/24	
o-Xylene	ND	0.0250	1	08/02/24	08/03/24	
p,m-Xylene	ND	0.0500	1	08/02/24	08/03/24	
Total Xylenes	ND	0.0250	1	08/02/24	08/03/24	
Surrogate: 4-Bromochlorobenzene-PID	87.1 %	70-130		08/02/24	08/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2431132	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/02/24	08/03/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	104 %	70-130		08/02/24	08/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2431134	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/02/24	08/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/02/24	08/03/24	
Surrogate: n-Nonane	106 %	50-200		08/02/24	08/03/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2431130	
Chloride	ND	20.0	1	08/02/24	08/03/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	New Mexico A State #1	Reported: 8/8/2024 10:38:46AM
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

S9-Surface
E408009-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2431132	
Benzene	ND	0.0250	1	08/02/24	08/03/24	
Ethylbenzene	ND	0.0250	1	08/02/24	08/03/24	
Toluene	ND	0.0250	1	08/02/24	08/03/24	
o-Xylene	ND	0.0250	1	08/02/24	08/03/24	
p,m-Xylene	ND	0.0500	1	08/02/24	08/03/24	
Total Xylenes	ND	0.0250	1	08/02/24	08/03/24	
Surrogate: 4-Bromochlorobenzene-PID	86.0 %	70-130		08/02/24	08/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2431132	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/02/24	08/03/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	101 %	70-130		08/02/24	08/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2431134	
Diesel Range Organics (C10-C28)	1670	500	20	08/02/24	08/03/24	
Oil Range Organics (C28-C36)	1640	1000	20	08/02/24	08/03/24	
Surrogate: n-Nonane	148 %	50-200		08/02/24	08/03/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2431130	
Chloride	109	20.0	1	08/02/24	08/03/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	New Mexico A State #1	Reported: 8/8/2024 10:38:46AM
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

S9-2'

E408009-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2431132	
Benzene	ND	0.0250	1	08/02/24	08/03/24	
Ethylbenzene	ND	0.0250	1	08/02/24	08/03/24	
Toluene	ND	0.0250	1	08/02/24	08/03/24	
o-Xylene	ND	0.0250	1	08/02/24	08/03/24	
p,m-Xylene	ND	0.0500	1	08/02/24	08/03/24	
Total Xylenes	ND	0.0250	1	08/02/24	08/03/24	
Surrogate: 4-Bromochlorobenzene-PID	88.6 %	70-130		08/02/24	08/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2431132	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/02/24	08/03/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	104 %	70-130		08/02/24	08/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2431134	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/02/24	08/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/02/24	08/03/24	
Surrogate: n-Nonane	110 %	50-200		08/02/24	08/03/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2431130	
Chloride	ND	20.0	1	08/02/24	08/03/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	New Mexico A State #1	Reported: 8/8/2024 10:38:46AM
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

S10-Surface
E408009-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2431132	
Benzene	ND	0.0250	1	08/02/24	08/03/24	
Ethylbenzene	ND	0.0250	1	08/02/24	08/03/24	
Toluene	ND	0.0250	1	08/02/24	08/03/24	
o-Xylene	ND	0.0250	1	08/02/24	08/03/24	
p,m-Xylene	ND	0.0500	1	08/02/24	08/03/24	
Total Xylenes	ND	0.0250	1	08/02/24	08/03/24	
Surrogate: 4-Bromochlorobenzene-PID	87.9 %	70-130		08/02/24	08/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2431132	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/02/24	08/03/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	103 %	70-130		08/02/24	08/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2431134	
Diesel Range Organics (C10-C28)	366	125	5	08/02/24	08/03/24	
Oil Range Organics (C28-C36)	484	250	5	08/02/24	08/03/24	
Surrogate: n-Nonane	104 %	50-200		08/02/24	08/03/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2431130	
Chloride	1040	20.0	1	08/02/24	08/03/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	New Mexico A State #1	Reported: 8/8/2024 10:38:46AM
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

S10-2'

E408009-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2431132	
Benzene	ND	0.0250	1	08/02/24	08/03/24	
Ethylbenzene	ND	0.0250	1	08/02/24	08/03/24	
Toluene	ND	0.0250	1	08/02/24	08/03/24	
o-Xylene	ND	0.0250	1	08/02/24	08/03/24	
p,m-Xylene	ND	0.0500	1	08/02/24	08/03/24	
Total Xylenes	ND	0.0250	1	08/02/24	08/03/24	
Surrogate: 4-Bromochlorobenzene-PID	88.0 %	70-130		08/02/24	08/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2431132	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/02/24	08/03/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	104 %	70-130		08/02/24	08/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2431134	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/02/24	08/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/02/24	08/03/24	
Surrogate: n-Nonane	109 %	50-200		08/02/24	08/03/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2431130	
Chloride	ND	20.0	1	08/02/24	08/03/24	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	New Mexico A State #1	Reported:
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	8/8/2024 10:38:46AM

Volatile Organics by EPA 8021B

Analyst: BA

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 (2431132-BLK1) Prepared: 08/02/24 Analyzed: 08/02/24

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	7.39		8.00		92.3	70-130			

LCS (2431132-BS1) Prepared: 08/02/24 Analyzed: 08/02/24

Benzene	5.37	0.0250	5.00		107	70-130			
Ethylbenzene	5.04	0.0250	5.00		101	70-130			
Toluene	5.29	0.0250	5.00		106	70-130			
o-Xylene	5.11	0.0250	5.00		102	70-130			
p,m-Xylene	10.4	0.0500	10.0		104	70-130			
Total Xylenes	15.5	0.0250	15.0		103	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.31		8.00		91.4	70-130			

Matrix Spike (2431132-MS1) Source: E408009-05 Prepared: 08/02/24 Analyzed: 08/02/24

Benzene	5.34	0.0250	5.00	ND	107	54-133			
Ethylbenzene	5.01	0.0250	5.00	ND	100	61-133			
Toluene	5.25	0.0250	5.00	ND	105	61-130			
o-Xylene	5.09	0.0250	5.00	ND	102	63-131			
p,m-Xylene	10.3	0.0500	10.0	ND	103	63-131			
Total Xylenes	15.4	0.0250	15.0	ND	103	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.27		8.00		90.8	70-130			

Matrix Spike Dup (2431132-MSD1) Source: E408009-05 Prepared: 08/02/24 Analyzed: 08/02/24

Benzene	4.89	0.0250	5.00	ND	97.8	54-133	8.74	20	
Ethylbenzene	4.60	0.0250	5.00	ND	91.9	61-133	8.73	20	
Toluene	4.81	0.0250	5.00	ND	96.2	61-130	8.85	20	
o-Xylene	4.67	0.0250	5.00	ND	93.3	63-131	8.67	20	
p,m-Xylene	9.45	0.0500	10.0	ND	94.5	63-131	8.79	20	
Total Xylenes	14.1	0.0250	15.0	ND	94.1	63-131	8.75	20	
Surrogate: 4-Bromochlorobenzene-PID	7.13		8.00		89.1	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	New Mexico A State #1	Reported:
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	8/8/2024 10:38:46AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

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 (2431132-BLK1) Prepared: 08/02/24 Analyzed: 08/02/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.26		8.00		103	70-130			

LCS (2431132-BS2) Prepared: 08/02/24 Analyzed: 08/02/24

Gasoline Range Organics (C6-C10)	43.2	20.0	50.0		86.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.43		8.00		105	70-130			

Matrix Spike (2431132-MS2) Source: E408009-05 Prepared: 08/02/24 Analyzed: 08/02/24

Gasoline Range Organics (C6-C10)	42.1	20.0	50.0	ND	84.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.48		8.00		106	70-130			

Matrix Spike Dup (2431132-MSD2) Source: E408009-05 Prepared: 08/02/24 Analyzed: 08/02/24

Gasoline Range Organics (C6-C10)	43.2	20.0	50.0	ND	86.5	70-130	2.68	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.48		8.00		106	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	New Mexico A State #1	Reported:
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	8/8/2024 10:38:46AM

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 (2431134-BLK1)					Prepared: 08/02/24 Analyzed: 08/02/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	58.0		50.0		116	50-200			

LCS (2431134-BS1)					Prepared: 08/02/24 Analyzed: 08/02/24				
Diesel Range Organics (C10-C28)	272	25.0	250		109	38-132			
Surrogate: n-Nonane	57.7		50.0		115	50-200			

Matrix Spike (2431134-MS1)					Source: E408009-07		Prepared: 08/02/24 Analyzed: 08/06/24		
Diesel Range Organics (C10-C28)	329	25.0	250	86.7	97.1	38-132			
Surrogate: n-Nonane	54.0		50.0		108	50-200			

Matrix Spike Dup (2431134-MSD1)					Source: E408009-07		Prepared: 08/02/24 Analyzed: 08/06/24		
Diesel Range Organics (C10-C28)	353	25.0	250	86.7	107	38-132	7.01	20	
Surrogate: n-Nonane	55.8		50.0		112	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	New Mexico A State #1	Reported:
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	8/8/2024 10:38:46AM

Anions by EPA 300.0/9056A

Analyst: DT

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

Blank (2431130-BLK1)					Prepared: 08/02/24 Analyzed: 08/02/24				
Chloride	ND	20.0							
LCS (2431130-BS1)					Prepared: 08/02/24 Analyzed: 08/02/24				
Chloride	251	20.0	250		100	90-110			
Matrix Spike (2431130-MS1)					Source: E408009-05		Prepared: 08/02/24 Analyzed: 08/02/24		
Chloride	354	20.0	250	124	92.0	80-120			
Matrix Spike Dup (2431130-MSD1)					Source: E408009-05		Prepared: 08/02/24 Analyzed: 08/02/24		
Chloride	368	20.0	250	124	97.5	80-120	3.81	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:	New Mexico A State #1	
PO Box 247	Project Number:	21068-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	08/08/24 10:38

- 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 7

Client: Pima Environmental Services Project: New Mexico A State #1 Project Manager: Tom Bynum Address: 5614 N. Lovington Hwy. City, State, Zip: Hobbs, NM, 88240 Phone: 806-782-1151 Email: tom@pimaoil.com Report due by:					Bill To Attention: Pima Environmental Address: City, State, Zip: Phone: Email: Pima Project # 36-1					Lab Use Only Lab WO# E408009 Job Number 21064-0001					TAT 1D 2D 3D Standard X				EPA Program CWA SDWA	
										Analysis and Method							RCRA			
																	State			
																	NM CO UT AZ TX			
																	X			
																	Remarks			
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	BDOC NM	BDOC TX							
7:00 am	7/30/24	S	1	S1-Surface	1							X								
7:16				S1-2'	2															
7:21				S2-Surface	3															
7:28				S2-2'	4															
7:33				S3-Surface	5															
7:41				S3-2'	6															
7:48				S4-Surface	7															
7:56				S4-2'	8															
8:06				S5-Surface	9															
8:11				S5-2'	10															
Additional Instructions: Bill to Pima																				
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	Lab Use Only												
Karine Adams		8/1/24	2:35	Michelle Gonzales		8-1-24	1425	Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N												
Michelle Gonzales		8-1-24	1650	Candice Bynum		8-1-24	1730	T1 T2 T3												
Candice Bynum		8-1-24	23:59			8/2/24	800	AVG Temp °C 4												
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other												Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA								
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																				

Project Information

Chain of Custody

Page 2 of 7

Client: Pima Environmental Services		Bill To		Lab Use Only		TAT		EPA Program					
Project: New Mexico A State #1		Attention: Pima Environmental		Lab WO#		Job Number		1D 2D 3D Standard		CWA SDWA			
Project Manager: Tom Bynum		Address:		E408009		21064-0001		X					
Address: 5614 N. Lovington Hwy.		City, State, Zip		Analysis and Method								RCRA	
City, State, Zip Hobbs, NM. 88240		Phone:											
Phone: 806-782-1151		Email:											
Email: tom@pimaoil.com		Pima Project # 36-1											
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		BDOC NM	BDOC TX		Remarks
8:17	7/30	S	1	S6-Surface	11								X			
8:22				S6-2'	12											
8:25				S7-Surface	13											
8:31				S7-2'	14											
8:36				S8-Surface	15											
8:44				S8-2'	16											
8:49				S9-Surface	17											
8:51				S9-2'	18											
8:55				S10-Surface	19											
8:59				S10-2'	20											

Additional Instructions:						Bill to Pima									
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		Lab Use Only			
Karime Adams		8/1/24		2:35		Michelle Gonzales		8-1-24		1435		Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N			
Michelle Gonzales		8-1-24		1650		Candice Briggs		8-1-24		1730		T1 _____ T2 _____ T3 _____			
Candice Briggs		8-1-24		23:59		[Signature]		8/2/24		800		AVG Temp °C <u>4</u>			
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other						Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA									
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.															

Envirotech Analytical Laboratory

Printed: 8/2/2024 12:32:19PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Pima Environmental Services-Carlsbad	Date Received:	08/02/24 08:00	Work Order ID:	E408009
Phone:	(575) 631-6977	Date Logged In:	08/01/24 15:32	Logged In By:	Alexa Michaels
Email:	tom@pimaoil.com	Due Date:	08/08/24 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: CouierComments/Resolution

This Project has been separated between WOs E408009-E408011. Sampled by person is missing from COC.

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Date Reported: 8/7/24

Tom Bynum
PO Box 247
Plains, TX 79355-0247



Project Name: New Mexico A State #1
Workorder: E408010
Date Received: 8/2/2024 8:00:16AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/2/2024 8:00:16AM, under the Project Name: New Mexico A State #1.

The analytical test results summarized in this report with the Project Name: New Mexico A State #1 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
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Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	New Mexico A State #1	Reported: 08/07/24 09:15
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S11-Surface	E408010-01A	Soil	07/30/24	08/02/24	Glass Jar, 2 oz.
S11-4'	E408010-02A	Soil	07/30/24	08/02/24	Glass Jar, 2 oz.
S12-Surface	E408010-03A	Soil	07/30/24	08/02/24	Glass Jar, 2 oz.
S12-2'	E408010-04A	Soil	07/30/24	08/02/24	Glass Jar, 2 oz.
S13-Surface	E408010-05A	Soil	07/30/24	08/02/24	Glass Jar, 2 oz.
S13-2'	E408010-06A	Soil	07/30/24	08/02/24	Glass Jar, 2 oz.
S14-Surface	E408010-07A	Soil	07/30/24	08/02/24	Glass Jar, 2 oz.
S14-2'	E408010-08A	Soil	07/30/24	08/02/24	Glass Jar, 2 oz.
S15-Surface	E408010-09A	Soil	07/30/24	08/02/24	Glass Jar, 2 oz.
S15-2'	E408010-10A	Soil	07/30/24	08/02/24	Glass Jar, 2 oz.
N1 Comp	E408010-11A	Soil	07/30/24	08/02/24	Glass Jar, 2 oz.
N2 Comp	E408010-12A	Soil	07/30/24	08/02/24	Glass Jar, 2 oz.
N3 Comp	E408010-13A	Soil	07/30/24	08/02/24	Glass Jar, 2 oz.
N4 Comp	E408010-14A	Soil	07/30/24	08/02/24	Glass Jar, 2 oz.
E1 Comp	E408010-15A	Soil	07/30/24	08/02/24	Glass Jar, 2 oz.
E2 Comp	E408010-16A	Soil	07/30/24	08/02/24	Glass Jar, 2 oz.
E3 Comp	E408010-17A	Soil	07/30/24	08/02/24	Glass Jar, 2 oz.
Sth1 Comp	E408010-18A	Soil	07/30/24	08/02/24	Glass Jar, 2 oz.
Sth2 Comp	E408010-19A	Soil	07/30/24	08/02/24	Glass Jar, 2 oz.
Sth3 Comp	E408010-20A	Soil	07/30/24	08/02/24	Glass Jar, 2 oz.



Sample Data

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

Project Name: New Mexico A State #1
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
8/7/2024 9:15:39AM

S11-Surface

E408010-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2431138	
Benzene	ND	0.0250	1	08/02/24	08/03/24	
Ethylbenzene	ND	0.0250	1	08/02/24	08/03/24	
Toluene	ND	0.0250	1	08/02/24	08/03/24	
o-Xylene	ND	0.0250	1	08/02/24	08/03/24	
p,m-Xylene	ND	0.0500	1	08/02/24	08/03/24	
Total Xylenes	ND	0.0250	1	08/02/24	08/03/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	99.3 %	70-130		08/02/24	08/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2431138	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/02/24	08/03/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	92.9 %	70-130		08/02/24	08/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2431135	
Diesel Range Organics (C10-C28)	82.9	50.0	2	08/02/24	08/02/24	
Oil Range Organics (C28-C36)	102	100	2	08/02/24	08/02/24	
<i>Surrogate: n-Nonane</i>	96.2 %	50-200		08/02/24	08/02/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2431131	
Chloride	144	20.0	1	08/02/24	08/03/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	New Mexico A State #1	Reported: 8/7/2024 9:15:39AM
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

S11-4'

E408010-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2431138	
Benzene	ND	0.0250	1	08/02/24	08/03/24	
Ethylbenzene	ND	0.0250	1	08/02/24	08/03/24	
Toluene	ND	0.0250	1	08/02/24	08/03/24	
o-Xylene	ND	0.0250	1	08/02/24	08/03/24	
p,m-Xylene	ND	0.0500	1	08/02/24	08/03/24	
Total Xylenes	ND	0.0250	1	08/02/24	08/03/24	
Surrogate: 4-Bromochlorobenzene-PID	98.9 %	70-130		08/02/24	08/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2431138	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/02/24	08/03/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.6 %	70-130		08/02/24	08/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2431135	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/02/24	08/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/02/24	08/02/24	
Surrogate: n-Nonane	97.5 %	50-200		08/02/24	08/02/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2431131	
Chloride	ND	20.0	1	08/02/24	08/03/24	



Sample Data

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

Project Name: New Mexico A State #1
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
8/7/2024 9:15:39AM

S12-Surface

E408010-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: CG		Batch: 2431138
Benzene	ND	0.0250	1	08/02/24	08/03/24	
Ethylbenzene	ND	0.0250	1	08/02/24	08/03/24	
Toluene	ND	0.0250	1	08/02/24	08/03/24	
o-Xylene	ND	0.0250	1	08/02/24	08/03/24	
p,m-Xylene	ND	0.0500	1	08/02/24	08/03/24	
Total Xylenes	ND	0.0250	1	08/02/24	08/03/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.2 %	70-130		08/02/24	08/03/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: CG		Batch: 2431138
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/02/24	08/03/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.5 %	70-130		08/02/24	08/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2431135
Diesel Range Organics (C10-C28)	ND	25.0	1	08/02/24	08/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/02/24	08/02/24	
<i>Surrogate: n-Nonane</i>						
	99.0 %	50-200		08/02/24	08/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2431131
Chloride	56.2	20.0	1	08/02/24	08/03/24	



Sample Data

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

Project Name: New Mexico A State #1
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
8/7/2024 9:15:39AM

S12-2'

E408010-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: CG		Batch: 2431138	
Benzene	ND	0.0250	1	08/02/24	08/03/24	
Ethylbenzene	ND	0.0250	1	08/02/24	08/03/24	
Toluene	ND	0.0250	1	08/02/24	08/03/24	
o-Xylene	ND	0.0250	1	08/02/24	08/03/24	
p,m-Xylene	ND	0.0500	1	08/02/24	08/03/24	
Total Xylenes	ND	0.0250	1	08/02/24	08/03/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.1 %	70-130		08/02/24	08/03/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: CG		Batch: 2431138	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/02/24	08/03/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.8 %	70-130		08/02/24	08/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2431135	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/02/24	08/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/02/24	08/02/24	
<i>Surrogate: n-Nonane</i>						
	99.1 %	50-200		08/02/24	08/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: WF		Batch: 2431131	
Chloride	ND	20.0	1	08/02/24	08/03/24	



Sample Data

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

Project Name: New Mexico A State #1
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
8/7/2024 9:15:39AM

S13-Surface

E408010-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: CG		Batch: 2431138	
Benzene	ND	0.0250	1	08/02/24	08/03/24	
Ethylbenzene	ND	0.0250	1	08/02/24	08/03/24	
Toluene	ND	0.0250	1	08/02/24	08/03/24	
o-Xylene	ND	0.0250	1	08/02/24	08/03/24	
p,m-Xylene	ND	0.0500	1	08/02/24	08/03/24	
Total Xylenes	ND	0.0250	1	08/02/24	08/03/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.7 %	70-130		08/02/24	08/03/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: CG		Batch: 2431138	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/02/24	08/03/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.2 %	70-130		08/02/24	08/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2431135	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/02/24	08/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/02/24	08/02/24	
<i>Surrogate: n-Nonane</i>						
	99.1 %	50-200		08/02/24	08/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: WF		Batch: 2431131	
Chloride	37.7	20.0	1	08/02/24	08/03/24	



Sample Data

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

Project Name: New Mexico A State #1
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
8/7/2024 9:15:39AM

S13-2'

E408010-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: CG		Batch: 2431138	
Benzene	ND	0.0250	1	08/02/24	08/03/24	
Ethylbenzene	ND	0.0250	1	08/02/24	08/03/24	
Toluene	ND	0.0250	1	08/02/24	08/03/24	
o-Xylene	ND	0.0250	1	08/02/24	08/03/24	
p,m-Xylene	ND	0.0500	1	08/02/24	08/03/24	
Total Xylenes	ND	0.0250	1	08/02/24	08/03/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	08/02/24	08/03/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: CG		Batch: 2431138	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/02/24	08/03/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		93.2 %	70-130	08/02/24	08/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2431135	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/02/24	08/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/02/24	08/02/24	
<i>Surrogate: n-Nonane</i>						
		96.6 %	50-200	08/02/24	08/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: WF		Batch: 2431131	
Chloride	ND	20.0	1	08/02/24	08/03/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	New Mexico A State #1	Reported: 8/7/2024 9:15:39AM
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

S14-Surface
E408010-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2431138	
Benzene	ND	0.0250	1	08/02/24	08/03/24	
Ethylbenzene	ND	0.0250	1	08/02/24	08/03/24	
Toluene	ND	0.0250	1	08/02/24	08/03/24	
o-Xylene	ND	0.0250	1	08/02/24	08/03/24	
p,m-Xylene	ND	0.0500	1	08/02/24	08/03/24	
Total Xylenes	ND	0.0250	1	08/02/24	08/03/24	
Surrogate: 4-Bromochlorobenzene-PID	98.1 %	70-130		08/02/24	08/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2431138	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/02/24	08/03/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.7 %	70-130		08/02/24	08/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2431135	
Diesel Range Organics (C10-C28)	76.7	50.0	2	08/02/24	08/02/24	
Oil Range Organics (C28-C36)	115	100	2	08/02/24	08/02/24	
Surrogate: n-Nonane	98.6 %	50-200		08/02/24	08/02/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2431131	
Chloride	33.1	20.0	1	08/02/24	08/03/24	



Sample Data

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

Project Name: New Mexico A State #1
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
8/7/2024 9:15:39AM

S14-2'

E408010-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: CG		Batch: 2431138	
Benzene	ND	0.0250	1	08/02/24	08/03/24	
Ethylbenzene	ND	0.0250	1	08/02/24	08/03/24	
Toluene	ND	0.0250	1	08/02/24	08/03/24	
o-Xylene	ND	0.0250	1	08/02/24	08/03/24	
p,m-Xylene	ND	0.0500	1	08/02/24	08/03/24	
Total Xylenes	ND	0.0250	1	08/02/24	08/03/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.6 %	70-130		08/02/24	08/03/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: CG		Batch: 2431138	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/02/24	08/03/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.8 %	70-130		08/02/24	08/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2431135	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/02/24	08/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/02/24	08/02/24	
<i>Surrogate: n-Nonane</i>						
	96.5 %	50-200		08/02/24	08/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: WF		Batch: 2431131	
Chloride	ND	20.0	1	08/02/24	08/03/24	



Sample Data

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

Project Name: New Mexico A State #1
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
8/7/2024 9:15:39AM

S15-Surface

E408010-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: CG		Batch: 2431138
Benzene	ND	0.0250	1	08/02/24	08/03/24	
Ethylbenzene	ND	0.0250	1	08/02/24	08/03/24	
Toluene	ND	0.0250	1	08/02/24	08/03/24	
o-Xylene	ND	0.0250	1	08/02/24	08/03/24	
p,m-Xylene	ND	0.0500	1	08/02/24	08/03/24	
Total Xylenes	ND	0.0250	1	08/02/24	08/03/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.6 %	70-130		08/02/24	08/03/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: CG		Batch: 2431138
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/02/24	08/03/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.9 %	70-130		08/02/24	08/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2431135
Diesel Range Organics (C10-C28)	1850	500	20	08/02/24	08/02/24	
Oil Range Organics (C28-C36)	1910	1000	20	08/02/24	08/02/24	
<i>Surrogate: n-Nonane</i>						
	111 %	50-200		08/02/24	08/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2431131
Chloride	104	40.0	2	08/02/24	08/03/24	



Sample Data

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

Project Name: New Mexico A State #1
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
8/7/2024 9:15:39AM

S15-2'

E408010-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2431138	
Benzene	ND	0.0250	1	08/02/24	08/03/24	
Ethylbenzene	ND	0.0250	1	08/02/24	08/03/24	
Toluene	ND	0.0250	1	08/02/24	08/03/24	
o-Xylene	ND	0.0250	1	08/02/24	08/03/24	
p,m-Xylene	ND	0.0500	1	08/02/24	08/03/24	
Total Xylenes	ND	0.0250	1	08/02/24	08/03/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.1 %	70-130		08/02/24	08/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2431138	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/02/24	08/03/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.0 %	70-130		08/02/24	08/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2431135	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/02/24	08/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/02/24	08/02/24	
<i>Surrogate: n-Nonane</i>						
	99.1 %	50-200		08/02/24	08/02/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2431131	
Chloride	ND	20.0	1	08/02/24	08/03/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	New Mexico A State #1	Reported: 8/7/2024 9:15:39AM
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

N1 Comp
E408010-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2431138	
Benzene	ND	0.0250	1	08/02/24	08/03/24	
Ethylbenzene	ND	0.0250	1	08/02/24	08/03/24	
Toluene	ND	0.0250	1	08/02/24	08/03/24	
o-Xylene	ND	0.0250	1	08/02/24	08/03/24	
p,m-Xylene	ND	0.0500	1	08/02/24	08/03/24	
Total Xylenes	ND	0.0250	1	08/02/24	08/03/24	
Surrogate: 4-Bromochlorobenzene-PID	98.7 %	70-130		08/02/24	08/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2431138	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/02/24	08/03/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.8 %	70-130		08/02/24	08/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2431135	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/02/24	08/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/02/24	08/03/24	
Surrogate: n-Nonane	100 %	50-200		08/02/24	08/03/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2431131	
Chloride	ND	20.0	1	08/02/24	08/03/24	



Sample Data

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

Project Name: New Mexico A State #1
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
8/7/2024 9:15:39AM

N2 Comp

E408010-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: CG		Batch: 2431138	
Benzene	ND	0.0250	1	08/02/24	08/03/24	
Ethylbenzene	ND	0.0250	1	08/02/24	08/03/24	
Toluene	ND	0.0250	1	08/02/24	08/03/24	
o-Xylene	ND	0.0250	1	08/02/24	08/03/24	
p,m-Xylene	ND	0.0500	1	08/02/24	08/03/24	
Total Xylenes	ND	0.0250	1	08/02/24	08/03/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.5 %	70-130		08/02/24	08/03/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: CG		Batch: 2431138	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/02/24	08/03/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.3 %	70-130		08/02/24	08/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2431135	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/02/24	08/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/02/24	08/03/24	
<i>Surrogate: n-Nonane</i>						
	99.7 %	50-200		08/02/24	08/03/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: WF		Batch: 2431131	
Chloride	ND	20.0	1	08/02/24	08/03/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	New Mexico A State #1	Reported: 8/7/2024 9:15:39AM
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

N3 Comp

E408010-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2431138	
Benzene	ND	0.0250	1	08/02/24	08/03/24	
Ethylbenzene	ND	0.0250	1	08/02/24	08/03/24	
Toluene	ND	0.0250	1	08/02/24	08/03/24	
o-Xylene	ND	0.0250	1	08/02/24	08/03/24	
p,m-Xylene	ND	0.0500	1	08/02/24	08/03/24	
Total Xylenes	ND	0.0250	1	08/02/24	08/03/24	
Surrogate: 4-Bromochlorobenzene-PID	98.3 %	70-130		08/02/24	08/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2431138	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/02/24	08/03/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.6 %	70-130		08/02/24	08/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2431135	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/02/24	08/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/02/24	08/03/24	
Surrogate: n-Nonane	96.3 %	50-200		08/02/24	08/03/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2431131	
Chloride	ND	20.0	1	08/02/24	08/03/24	



Sample Data

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

Project Name: New Mexico A State #1
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
8/7/2024 9:15:39AM

N4 Comp

E408010-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: CG		Batch: 2431138	
Benzene	ND	0.0250	1	08/02/24	08/03/24	
Ethylbenzene	ND	0.0250	1	08/02/24	08/03/24	
Toluene	ND	0.0250	1	08/02/24	08/03/24	
o-Xylene	ND	0.0250	1	08/02/24	08/03/24	
p,m-Xylene	ND	0.0500	1	08/02/24	08/03/24	
Total Xylenes	ND	0.0250	1	08/02/24	08/03/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.7 %	70-130		08/02/24	08/03/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: CG		Batch: 2431138	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/02/24	08/03/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.3 %	70-130		08/02/24	08/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2431135	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/02/24	08/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/02/24	08/03/24	
<i>Surrogate: n-Nonane</i>						
	101 %	50-200		08/02/24	08/03/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: WF		Batch: 2431131	
Chloride	ND	20.0	1	08/02/24	08/03/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	New Mexico A State #1	Reported: 8/7/2024 9:15:39AM
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

E1 Comp

E408010-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2431138	
Benzene	ND	0.0250	1	08/02/24	08/03/24	
Ethylbenzene	ND	0.0250	1	08/02/24	08/03/24	
Toluene	ND	0.0250	1	08/02/24	08/03/24	
o-Xylene	ND	0.0250	1	08/02/24	08/03/24	
p,m-Xylene	ND	0.0500	1	08/02/24	08/03/24	
Total Xylenes	ND	0.0250	1	08/02/24	08/03/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.4 %	70-130		08/02/24	08/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2431138	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/02/24	08/03/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.3 %	70-130		08/02/24	08/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2431135	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/02/24	08/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/02/24	08/03/24	
<i>Surrogate: n-Nonane</i>						
	97.7 %	50-200		08/02/24	08/03/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2431131	
Chloride	ND	20.0	1	08/02/24	08/03/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	New Mexico A State #1	Reported: 8/7/2024 9:15:39AM
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

E2 Comp

E408010-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2431138	
Benzene	ND	0.0250	1	08/02/24	08/03/24	
Ethylbenzene	ND	0.0250	1	08/02/24	08/03/24	
Toluene	ND	0.0250	1	08/02/24	08/03/24	
o-Xylene	ND	0.0250	1	08/02/24	08/03/24	
p,m-Xylene	ND	0.0500	1	08/02/24	08/03/24	
Total Xylenes	ND	0.0250	1	08/02/24	08/03/24	
Surrogate: 4-Bromochlorobenzene-PID	98.3 %	70-130		08/02/24	08/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2431138	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/02/24	08/03/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.6 %	70-130		08/02/24	08/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2431135	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/02/24	08/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/02/24	08/03/24	
Surrogate: n-Nonane	97.8 %	50-200		08/02/24	08/03/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2431131	
Chloride	ND	20.0	1	08/02/24	08/03/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	New Mexico A State #1	Reported: 8/7/2024 9:15:39AM
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

E3 Comp

E408010-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2431138	
Benzene	ND	0.0250	1	08/02/24	08/03/24	
Ethylbenzene	ND	0.0250	1	08/02/24	08/03/24	
Toluene	ND	0.0250	1	08/02/24	08/03/24	
o-Xylene	ND	0.0250	1	08/02/24	08/03/24	
p,m-Xylene	ND	0.0500	1	08/02/24	08/03/24	
Total Xylenes	ND	0.0250	1	08/02/24	08/03/24	
Surrogate: 4-Bromochlorobenzene-PID	97.4 %	70-130		08/02/24	08/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2431138	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/02/24	08/03/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.8 %	70-130		08/02/24	08/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2431135	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/02/24	08/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/02/24	08/03/24	
Surrogate: n-Nonane	100 %	50-200		08/02/24	08/03/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2431131	
Chloride	ND	20.0	1	08/02/24	08/03/24	



Sample Data

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

Project Name: New Mexico A State #1
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
8/7/2024 9:15:39AM

Sth1 Comp

E408010-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: CG		Batch: 2431138	
Benzene	ND	0.0250	1	08/02/24	08/03/24	
Ethylbenzene	ND	0.0250	1	08/02/24	08/03/24	
Toluene	ND	0.0250	1	08/02/24	08/03/24	
o-Xylene	ND	0.0250	1	08/02/24	08/03/24	
p,m-Xylene	ND	0.0500	1	08/02/24	08/03/24	
Total Xylenes	ND	0.0250	1	08/02/24	08/03/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.7 %	70-130		08/02/24	08/03/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: CG		Batch: 2431138	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/02/24	08/03/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.3 %	70-130		08/02/24	08/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2431135	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/02/24	08/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/02/24	08/03/24	
<i>Surrogate: n-Nonane</i>						
	97.0 %	50-200		08/02/24	08/03/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: WF		Batch: 2431131	
Chloride	ND	20.0	1	08/02/24	08/03/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	New Mexico A State #1	Reported: 8/7/2024 9:15:39AM
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

Sth2 Comp
E408010-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2431138	
Benzene	ND	0.0250	1	08/02/24	08/03/24	
Ethylbenzene	ND	0.0250	1	08/02/24	08/03/24	
Toluene	ND	0.0250	1	08/02/24	08/03/24	
o-Xylene	ND	0.0250	1	08/02/24	08/03/24	
p,m-Xylene	ND	0.0500	1	08/02/24	08/03/24	
Total Xylenes	ND	0.0250	1	08/02/24	08/03/24	
Surrogate: 4-Bromochlorobenzene-PID	97.3 %	70-130		08/02/24	08/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2431138	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/02/24	08/03/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.5 %	70-130		08/02/24	08/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2431135	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/02/24	08/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/02/24	08/03/24	
Surrogate: n-Nonane	99.1 %	50-200		08/02/24	08/03/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2431131	
Chloride	ND	20.0	1	08/02/24	08/03/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	New Mexico A State #1	Reported: 8/7/2024 9:15:39AM
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

Sth3 Comp
E408010-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2431138	
Benzene	ND	0.0250	1	08/02/24	08/03/24	
Ethylbenzene	ND	0.0250	1	08/02/24	08/03/24	
Toluene	ND	0.0250	1	08/02/24	08/03/24	
o-Xylene	ND	0.0250	1	08/02/24	08/03/24	
p,m-Xylene	ND	0.0500	1	08/02/24	08/03/24	
Total Xylenes	ND	0.0250	1	08/02/24	08/03/24	
Surrogate: 4-Bromochlorobenzene-PID	98.4 %	70-130		08/02/24	08/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2431138	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/02/24	08/03/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.4 %	70-130		08/02/24	08/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2431135	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/02/24	08/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/02/24	08/03/24	
Surrogate: n-Nonane	98.5 %	50-200		08/02/24	08/03/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF		Batch: 2431131	
Chloride	ND	20.0	1	08/02/24	08/03/24	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	New Mexico A State #1	Reported:
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	8/7/2024 9:15:39AM

Volatile Organics by EPA 8021B

Analyst: CG

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

Blank (2431138-BLK1) Prepared: 08/02/24 Analyzed: 08/03/24

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	7.76		8.00		97.0	70-130			

LCS (2431138-BS1) Prepared: 08/02/24 Analyzed: 08/03/24

Benzene	5.22	0.0250	5.00		104	70-130			
Ethylbenzene	5.03	0.0250	5.00		101	70-130			
Toluene	5.14	0.0250	5.00		103	70-130			
o-Xylene	5.03	0.0250	5.00		101	70-130			
p,m-Xylene	10.2	0.0500	10.0		102	70-130			
Total Xylenes	15.2	0.0250	15.0		102	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.74		8.00		96.8	70-130			

Matrix Spike (2431138-MS1) Source: E408010-08 Prepared: 08/02/24 Analyzed: 08/03/24

Benzene	5.47	0.0250	5.00	ND	109	54-133			
Ethylbenzene	5.26	0.0250	5.00	ND	105	61-133			
Toluene	5.37	0.0250	5.00	ND	107	61-130			
o-Xylene	5.26	0.0250	5.00	ND	105	63-131			
p,m-Xylene	10.7	0.0500	10.0	ND	107	63-131			
Total Xylenes	16.0	0.0250	15.0	ND	106	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.88		8.00		98.5	70-130			

Matrix Spike Dup (2431138-MSD1) Source: E408010-08 Prepared: 08/02/24 Analyzed: 08/03/24

Benzene	5.16	0.0250	5.00	ND	103	54-133	5.98	20	
Ethylbenzene	4.92	0.0250	5.00	ND	98.5	61-133	6.61	20	
Toluene	5.05	0.0250	5.00	ND	101	61-130	6.12	20	
o-Xylene	4.94	0.0250	5.00	ND	98.7	63-131	6.38	20	
p,m-Xylene	10.0	0.0500	10.0	ND	100	63-131	6.65	20	
Total Xylenes	14.9	0.0250	15.0	ND	99.6	63-131	6.56	20	
Surrogate: 4-Bromochlorobenzene-PID	7.83		8.00		97.9	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	New Mexico A State #1	Reported:
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	8/7/2024 9:15:39AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: CG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2431138-BLK1) Prepared: 08/02/24 Analyzed: 08/03/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.40		8.00		92.6	70-130			

LCS (2431138-BS2) Prepared: 08/02/24 Analyzed: 08/03/24

Gasoline Range Organics (C6-C10)	37.5	20.0	50.0		74.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.56		8.00		94.5	70-130			

Matrix Spike (2431138-MS2) Source: E408010-08 Prepared: 08/02/24 Analyzed: 08/03/24

Gasoline Range Organics (C6-C10)	39.5	20.0	50.0	ND	78.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.52		8.00		94.0	70-130			

Matrix Spike Dup (2431138-MSD2) Source: E408010-08 Prepared: 08/02/24 Analyzed: 08/03/24

Gasoline Range Organics (C6-C10)	37.2	20.0	50.0	ND	74.4	70-130	5.83	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.52		8.00		94.0	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	New Mexico A State #1	Reported:
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	8/7/2024 9:15:39AM

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 (2431135-BLK1) Prepared: 08/02/24 Analyzed: 08/02/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	50.3		50.0		101	50-200			

LCS (2431135-BS1) Prepared: 08/02/24 Analyzed: 08/02/24

Diesel Range Organics (C10-C28)	250	25.0	250		99.9	38-132			
Surrogate: n-Nonane	50.7		50.0		101	50-200			

Matrix Spike (2431135-MS1) Source: E408010-09 Prepared: 08/02/24 Analyzed: 08/02/24

Diesel Range Organics (C10-C28)	1980	500	250	1850	51.5	38-132			
Surrogate: n-Nonane	58.1		50.0		116	50-200			

Matrix Spike Dup (2431135-MSD1) Source: E408010-09 Prepared: 08/02/24 Analyzed: 08/02/24

Diesel Range Organics (C10-C28)	1970	500	250	1850	48.2	38-132	0.418	20	
Surrogate: n-Nonane	57.8		50.0		116	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	New Mexico A State #1	Reported:
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	8/7/2024 9:15:39AM

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 (2431131-BLK1)					Prepared: 08/02/24 Analyzed: 08/02/24				
Chloride	ND	20.0							
LCS (2431131-BS1)					Prepared: 08/02/24 Analyzed: 08/02/24				
Chloride	247	20.0	250		98.8	90-110			
Matrix Spike (2431131-MS1)					Source: E408010-07		Prepared: 08/02/24 Analyzed: 08/03/24		
Chloride	286	20.0	250	33.1	101	80-120			
Matrix Spike Dup (2431131-MSD1)					Source: E408010-07		Prepared: 08/02/24 Analyzed: 08/03/24		
Chloride	283	20.0	250	33.1	99.9	80-120	1.07	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:	New Mexico A State #1	
PO Box 247	Project Number:	21068-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	08/07/24 09:15

- 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 3 of 7

Client: Pima Environmental Services					Bill To		Lab Use Only						TAT				EPA Program			
Project: New Mexico A State #1					Attention: Pima Environmental		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA				
Project Manager: Tom Bynum					Address:		E408010		21064-0001					X						
Address: 5614 N. Lovington Hwy.					City, State, Zip		Analysis and Method										RCRA			
City, State, Zip Hobbs, NM, 88240					Phone:		DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0								
Phone: 806-782-1151					Email:									BGDOC NM	BGDOC TX					
Email: tom@pimaoil.com					Pima Project # 36-1															
Report due by:																				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number												State		Remarks	
9:11	7/30	S	1	S11-Surface	1									X						
9:18				S11-4'	2															
9:26				S12-Surface	3															
9:33				S12-2'	4															
9:38				S13-Surface	5															
9:42				S13-2'	6															
9:47				S14-Surface	7															
9:58				S14-2'	8															
10:11				S15-Surface	9															
10:17				S15-2'	10															

Additional Instructions: Bill to Pima

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:

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.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
<i>Carine Ajarne</i>	8/1/24	2:35	<i>Michelle Gonzales</i>	8-1-24	1435	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
<i>Michelle Gonzales</i>	8-1-24	1650	<i>Carine Ajarne</i>	8-1-24	1730	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
<i>Carine Ajarne</i>	8-1-24	23:59	<i>[Signature]</i>	8/2/24	800	

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

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

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

Client: Pima Environmental Services						Bill To							Lab Use Only								TAT				EPA Program						
Project: New Mexico A State #1						Attention: Pima Environmental							Lab WO# E408010				Job Number 21064-0001				1D	2D	3D	Standard		CWA	SDWA				
Project Manager: Tom Bynum						Address:																		X							
Address: 5614 N. Lovington Hwy.						City, State, Zip							Analysis and Method								State										
City, State, Zip Hobbs, NM. 88240						Phone:							DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0					BDOC NM	BDOC TX	NM	CO	UT	AZ	TX		
Phone: 806-782-1151						Email:																			X						
Email: tom@pimaoil.com						Pima Project # 36-1							Remarks																		
Report due by:																															
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number																										
10:23	7/30	S	1	N1 Comp	11																										
10:38				N2 Comp	12																										
10:49				N3 Comp	13																										
10:56				N4 Comp	14																										
11:11				E1 Comp	15																										
11:13				E2 Comp	16																										
11:22				E3 Comp	17																										
11:26				Sth1 Comp	18																										
11:31				Sth2 Comp	19																										
11:37				Sth3 Comp	20																										
Additional Instructions:																															
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																															
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) Larime Adams Date 8/1/24 Time 2:35 Received by: (Signature) Michelle Gonzales Date 8-1-24 Time 1425																															
Relinquished by: (Signature) Michelle Gonzales Date 8-1-24 Time 1650 Received by: (Signature) Candice Ruyter Date 8-1-24 Time 1730																															
Relinquished by: (Signature) Candice Ruyter Date 8-1-24 Time 23:59 Received by: (Signature) [Signature] Date 8/2/24 Time 800																															
Sample Matrix: S - Soil, SS - Solid, SG - Sludge, A - Aqueous, O - Other																															
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																															
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																															

Envirotech Analytical Laboratory

Printed: 8/2/2024 12:35:16PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Pima Environmental Services-Carlsbad	Date Received:	08/02/24 08:00	Work Order ID:	E408010
Phone:	(575) 631-6977	Date Logged In:	08/01/24 15:32	Logged In By:	Alexa Michaels
Email:	tom@pimaoil.com	Due Date:	08/08/24 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: CouierComments/Resolution

This Project has been separated between WOs E408009-E408011. Sampled by person is missing from COC.

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Tom Bynum



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pima Environmental Services-Carlsbad

Project Name: New Mexico A State #1

Work Order: E408011

Job Number: 21068-0001

Received: 8/2/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
8/7/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 8/7/24

Tom Bynum
PO Box 247
Plains, TX 79355-0247



Project Name: New Mexico A State #1
Workorder: E408011
Date Received: 8/2/2024 8:00:16AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/2/2024 8:00:16AM, under the Project Name: New Mexico A State #1.

The analytical test results summarized in this report with the Project Name: New Mexico A State #1 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
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Cell: 775-287-1762
whinchman@envirotech-inc.com

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Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	New Mexico A State #1	Reported: 08/07/24 09:28
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
W1-Comp	E408011-01A	Soil	07/30/24	08/02/24	Glass Jar, 2 oz.
W2-Comp	E408011-02A	Soil	07/30/24	08/02/24	Glass Jar, 2 oz.
W3-Comp	E408011-03A	Soil	07/30/24	08/02/24	Glass Jar, 2 oz.
W4-Comp	E408011-04A	Soil	07/30/24	08/02/24	Glass Jar, 2 oz.
P1-Surface	E408011-05A	Soil	07/30/24	08/02/24	Glass Jar, 2 oz.
P1-2'	E408011-06A	Soil	07/30/24	08/02/24	Glass Jar, 2 oz.
P2-Surface	E408011-07A	Soil	07/30/24	08/02/24	Glass Jar, 2 oz.
P2-2'	E408011-08A	Soil	07/30/24	08/02/24	Glass Jar, 2 oz.
WH1-3'	E408011-09A	Soil	07/30/24	08/02/24	Glass Jar, 2 oz.
WH1-6'	E408011-10A	Soil	07/30/24	08/02/24	Glass Jar, 2 oz.
WH2-Surface	E408011-11A	Soil	07/30/24	08/02/24	Glass Jar, 2 oz.
WH2-4'	E408011-12A	Soil	07/30/24	08/02/24	Glass Jar, 2 oz.
WH3-Surface	E408011-13A	Soil	07/30/24	08/02/24	Glass Jar, 2 oz.
WH3-4'	E408011-14A	Soil	07/30/24	08/02/24	Glass Jar, 2 oz.
WH4-Surface	E408011-15A	Soil	07/30/24	08/02/24	Glass Jar, 2 oz.
WH4-4'	E408011-16A	Soil	07/30/24	08/02/24	Glass Jar, 2 oz.
WN1 Comp	E408011-17A	Soil	07/30/24	08/02/24	Glass Jar, 2 oz.
WN2 Comp	E408011-18A	Soil	07/30/24	08/02/24	Glass Jar, 2 oz.
WE1 Comp	E408011-19A	Soil	07/30/24	08/02/24	Glass Jar, 2 oz.
WE2 Comp	E408011-20A	Soil	07/30/24	08/02/24	Glass Jar, 2 oz.
WS1 Comp	E408011-21A	Soil	07/30/24	08/02/24	Glass Jar, 2 oz.
WS2 Comp	E408011-22A	Soil	07/30/24	08/02/24	Glass Jar, 2 oz.
WW1 Comp	E408011-23A	Soil	07/30/24	08/02/24	Glass Jar, 2 oz.
WW2 Comp	E408011-24A	Soil	07/30/24	08/02/24	Glass Jar, 2 oz.
BG1	E408011-25A	Soil	07/30/24	08/02/24	Glass Jar, 2 oz.



Sample Data

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

Project Name: New Mexico A State #1
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
8/7/2024 9:28:47AM

W1-Comp E408011-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2431140
Benzene	ND	0.0250	1	08/02/24	08/05/24	
Ethylbenzene	ND	0.0250	1	08/02/24	08/05/24	
Toluene	ND	0.0250	1	08/02/24	08/05/24	
o-Xylene	ND	0.0250	1	08/02/24	08/05/24	
p,m-Xylene	ND	0.0500	1	08/02/24	08/05/24	
Total Xylenes	ND	0.0250	1	08/02/24	08/05/24	
<i>Surrogate: Bromofluorobenzene</i>		103 %	70-130	08/02/24	08/05/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.8 %	70-130	08/02/24	08/05/24	
<i>Surrogate: Toluene-d8</i>		98.6 %	70-130	08/02/24	08/05/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2431140
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/02/24	08/05/24	
<i>Surrogate: Bromofluorobenzene</i>		103 %	70-130	08/02/24	08/05/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.8 %	70-130	08/02/24	08/05/24	
<i>Surrogate: Toluene-d8</i>		98.6 %	70-130	08/02/24	08/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2431136
Diesel Range Organics (C10-C28)	ND	25.0	1	08/02/24	08/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/02/24	08/02/24	
<i>Surrogate: n-Nonane</i>		132 %	50-200	08/02/24	08/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2431139
Chloride	ND	20.0	1	08/02/24	08/02/24	



Sample Data

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

Project Name: New Mexico A State #1
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
8/7/2024 9:28:47AM

W2-Comp
E408011-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2431140
Benzene	ND	0.0250	1	08/02/24	08/05/24	
Ethylbenzene	ND	0.0250	1	08/02/24	08/05/24	
Toluene	ND	0.0250	1	08/02/24	08/05/24	
o-Xylene	ND	0.0250	1	08/02/24	08/05/24	
p,m-Xylene	ND	0.0500	1	08/02/24	08/05/24	
Total Xylenes	ND	0.0250	1	08/02/24	08/05/24	
Surrogate: Bromofluorobenzene	98.4 %	70-130		08/02/24	08/05/24	
Surrogate: 1,2-Dichloroethane-d4	95.1 %	70-130		08/02/24	08/05/24	
Surrogate: Toluene-d8	98.5 %	70-130		08/02/24	08/05/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2431140
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/02/24	08/05/24	
Surrogate: Bromofluorobenzene	98.4 %	70-130		08/02/24	08/05/24	
Surrogate: 1,2-Dichloroethane-d4	95.1 %	70-130		08/02/24	08/05/24	
Surrogate: Toluene-d8	98.5 %	70-130		08/02/24	08/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2431136
Diesel Range Organics (C10-C28)	ND	25.0	1	08/02/24	08/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/02/24	08/02/24	
Surrogate: n-Nonane	130 %	50-200		08/02/24	08/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2431139
Chloride	ND	20.0	1	08/02/24	08/02/24	



Sample Data

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

Project Name: New Mexico A State #1
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
8/7/2024 9:28:47AM

W3-Comp

E408011-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2431140
Benzene	ND	0.0250	1	08/02/24	08/05/24	
Ethylbenzene	ND	0.0250	1	08/02/24	08/05/24	
Toluene	ND	0.0250	1	08/02/24	08/05/24	
o-Xylene	ND	0.0250	1	08/02/24	08/05/24	
p,m-Xylene	ND	0.0500	1	08/02/24	08/05/24	
Total Xylenes	ND	0.0250	1	08/02/24	08/05/24	
Surrogate: Bromofluorobenzene		103 %	70-130	08/02/24	08/05/24	
Surrogate: 1,2-Dichloroethane-d4		93.9 %	70-130	08/02/24	08/05/24	
Surrogate: Toluene-d8		101 %	70-130	08/02/24	08/05/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2431140
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/02/24	08/05/24	
Surrogate: Bromofluorobenzene		103 %	70-130	08/02/24	08/05/24	
Surrogate: 1,2-Dichloroethane-d4		93.9 %	70-130	08/02/24	08/05/24	
Surrogate: Toluene-d8		101 %	70-130	08/02/24	08/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2431136
Diesel Range Organics (C10-C28)	ND	25.0	1	08/02/24	08/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/02/24	08/02/24	
Surrogate: n-Nonane		127 %	50-200	08/02/24	08/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2431139
Chloride	ND	20.0	1	08/02/24	08/02/24	



Sample Data

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

Project Name: New Mexico A State #1
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
8/7/2024 9:28:47AM

W4-Comp
E408011-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2431140
Benzene	ND	0.0250	1	08/02/24	08/05/24	
Ethylbenzene	ND	0.0250	1	08/02/24	08/05/24	
Toluene	ND	0.0250	1	08/02/24	08/05/24	
o-Xylene	ND	0.0250	1	08/02/24	08/05/24	
p,m-Xylene	ND	0.0500	1	08/02/24	08/05/24	
Total Xylenes	ND	0.0250	1	08/02/24	08/05/24	
Surrogate: Bromofluorobenzene		102 %	70-130	08/02/24	08/05/24	
Surrogate: 1,2-Dichloroethane-d4		96.9 %	70-130	08/02/24	08/05/24	
Surrogate: Toluene-d8		98.7 %	70-130	08/02/24	08/05/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2431140
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/02/24	08/05/24	
Surrogate: Bromofluorobenzene		102 %	70-130	08/02/24	08/05/24	
Surrogate: 1,2-Dichloroethane-d4		96.9 %	70-130	08/02/24	08/05/24	
Surrogate: Toluene-d8		98.7 %	70-130	08/02/24	08/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2431136
Diesel Range Organics (C10-C28)	ND	25.0	1	08/02/24	08/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/02/24	08/02/24	
Surrogate: n-Nonane		129 %	50-200	08/02/24	08/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2431139
Chloride	ND	20.0	1	08/02/24	08/02/24	



Sample Data

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

Project Name: New Mexico A State #1
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
8/7/2024 9:28:47AM

P1-Surface

E408011-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2431140
Benzene	ND	0.0250	1	08/02/24	08/05/24	
Ethylbenzene	ND	0.0250	1	08/02/24	08/05/24	
Toluene	ND	0.0250	1	08/02/24	08/05/24	
o-Xylene	ND	0.0250	1	08/02/24	08/05/24	
p,m-Xylene	ND	0.0500	1	08/02/24	08/05/24	
Total Xylenes	ND	0.0250	1	08/02/24	08/05/24	
Surrogate: Bromofluorobenzene	99.2 %	70-130		08/02/24	08/05/24	
Surrogate: 1,2-Dichloroethane-d4	93.1 %	70-130		08/02/24	08/05/24	
Surrogate: Toluene-d8	97.8 %	70-130		08/02/24	08/05/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2431140
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/02/24	08/05/24	
Surrogate: Bromofluorobenzene	99.2 %	70-130		08/02/24	08/05/24	
Surrogate: 1,2-Dichloroethane-d4	93.1 %	70-130		08/02/24	08/05/24	
Surrogate: Toluene-d8	97.8 %	70-130		08/02/24	08/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2431136
Diesel Range Organics (C10-C28)	ND	25.0	1	08/02/24	08/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/02/24	08/02/24	
Surrogate: n-Nonane	134 %	50-200		08/02/24	08/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2431139
Chloride	ND	20.0	1	08/02/24	08/02/24	



Sample Data

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

Project Name: New Mexico A State #1
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
8/7/2024 9:28:47AM

P1-2'

E408011-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2431140
Benzene	ND	0.0250	1	08/02/24	08/05/24	
Ethylbenzene	ND	0.0250	1	08/02/24	08/05/24	
Toluene	ND	0.0250	1	08/02/24	08/05/24	
o-Xylene	ND	0.0250	1	08/02/24	08/05/24	
p,m-Xylene	ND	0.0500	1	08/02/24	08/05/24	
Total Xylenes	ND	0.0250	1	08/02/24	08/05/24	
Surrogate: Bromofluorobenzene		102 %	70-130	08/02/24	08/05/24	
Surrogate: 1,2-Dichloroethane-d4		95.5 %	70-130	08/02/24	08/05/24	
Surrogate: Toluene-d8		97.9 %	70-130	08/02/24	08/05/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2431140
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/02/24	08/05/24	
Surrogate: Bromofluorobenzene		102 %	70-130	08/02/24	08/05/24	
Surrogate: 1,2-Dichloroethane-d4		95.5 %	70-130	08/02/24	08/05/24	
Surrogate: Toluene-d8		97.9 %	70-130	08/02/24	08/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2431136
Diesel Range Organics (C10-C28)	ND	25.0	1	08/02/24	08/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/02/24	08/02/24	
Surrogate: n-Nonane		123 %	50-200	08/02/24	08/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2431139
Chloride	ND	20.0	1	08/02/24	08/02/24	



Sample Data

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

Project Name: New Mexico A State #1
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
8/7/2024 9:28:47AM

P2-Surface

E408011-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2431140
Benzene	ND	0.0250	1	08/02/24	08/05/24	
Ethylbenzene	ND	0.0250	1	08/02/24	08/05/24	
Toluene	ND	0.0250	1	08/02/24	08/05/24	
o-Xylene	ND	0.0250	1	08/02/24	08/05/24	
p,m-Xylene	ND	0.0500	1	08/02/24	08/05/24	
Total Xylenes	ND	0.0250	1	08/02/24	08/05/24	
Surrogate: Bromofluorobenzene		101 %	70-130	08/02/24	08/05/24	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	08/02/24	08/05/24	
Surrogate: Toluene-d8		98.7 %	70-130	08/02/24	08/05/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2431140
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/02/24	08/05/24	
Surrogate: Bromofluorobenzene		101 %	70-130	08/02/24	08/05/24	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	08/02/24	08/05/24	
Surrogate: Toluene-d8		98.7 %	70-130	08/02/24	08/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2431136
Diesel Range Organics (C10-C28)	ND	25.0	1	08/02/24	08/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/02/24	08/02/24	
Surrogate: n-Nonane		126 %	50-200	08/02/24	08/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2431139
Chloride	ND	20.0	1	08/02/24	08/02/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	New Mexico A State #1	Reported: 8/7/2024 9:28:47AM
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

P2-2'

E408011-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2431140
Benzene	ND	0.0250	1	08/02/24	08/05/24	
Ethylbenzene	ND	0.0250	1	08/02/24	08/05/24	
Toluene	ND	0.0250	1	08/02/24	08/05/24	
o-Xylene	ND	0.0250	1	08/02/24	08/05/24	
p,m-Xylene	ND	0.0500	1	08/02/24	08/05/24	
Total Xylenes	ND	0.0250	1	08/02/24	08/05/24	
Surrogate: Bromofluorobenzene		103 %	70-130	08/02/24	08/05/24	
Surrogate: 1,2-Dichloroethane-d4		98.8 %	70-130	08/02/24	08/05/24	
Surrogate: Toluene-d8		98.4 %	70-130	08/02/24	08/05/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2431140
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/02/24	08/05/24	
Surrogate: Bromofluorobenzene		103 %	70-130	08/02/24	08/05/24	
Surrogate: 1,2-Dichloroethane-d4		98.8 %	70-130	08/02/24	08/05/24	
Surrogate: Toluene-d8		98.4 %	70-130	08/02/24	08/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2431136
Diesel Range Organics (C10-C28)	ND	25.0	1	08/02/24	08/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/02/24	08/02/24	
Surrogate: n-Nonane		127 %	50-200	08/02/24	08/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2431139
Chloride	ND	20.0	1	08/02/24	08/02/24	



Sample Data

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

Project Name: New Mexico A State #1
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
8/7/2024 9:28:47AM

WH1-3'

E408011-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2431140
Benzene	ND	0.0250	1	08/02/24	08/05/24	
Ethylbenzene	ND	0.0250	1	08/02/24	08/05/24	
Toluene	ND	0.0250	1	08/02/24	08/05/24	
o-Xylene	ND	0.0250	1	08/02/24	08/05/24	
p,m-Xylene	ND	0.0500	1	08/02/24	08/05/24	
Total Xylenes	ND	0.0250	1	08/02/24	08/05/24	
Surrogate: Bromofluorobenzene	99.3 %	70-130		08/02/24	08/05/24	
Surrogate: 1,2-Dichloroethane-d4	97.0 %	70-130		08/02/24	08/05/24	
Surrogate: Toluene-d8	98.5 %	70-130		08/02/24	08/05/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2431140
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/02/24	08/05/24	
Surrogate: Bromofluorobenzene	99.3 %	70-130		08/02/24	08/05/24	
Surrogate: 1,2-Dichloroethane-d4	97.0 %	70-130		08/02/24	08/05/24	
Surrogate: Toluene-d8	98.5 %	70-130		08/02/24	08/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2431136
Diesel Range Organics (C10-C28)	ND	25.0	1	08/02/24	08/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/02/24	08/02/24	
Surrogate: n-Nonane	134 %	50-200		08/02/24	08/02/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2431139
Chloride	ND	20.0	1	08/02/24	08/02/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	New Mexico A State #1	Reported: 8/7/2024 9:28:47AM
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

WH1-6'

E408011-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2431140
Benzene	ND	0.0250	1	08/02/24	08/05/24	
Ethylbenzene	ND	0.0250	1	08/02/24	08/05/24	
Toluene	ND	0.0250	1	08/02/24	08/05/24	
o-Xylene	ND	0.0250	1	08/02/24	08/05/24	
p,m-Xylene	ND	0.0500	1	08/02/24	08/05/24	
Total Xylenes	ND	0.0250	1	08/02/24	08/05/24	
Surrogate: Bromofluorobenzene		103 %	70-130	08/02/24	08/05/24	
Surrogate: 1,2-Dichloroethane-d4		96.2 %	70-130	08/02/24	08/05/24	
Surrogate: Toluene-d8		98.1 %	70-130	08/02/24	08/05/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2431140
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/02/24	08/05/24	
Surrogate: Bromofluorobenzene		103 %	70-130	08/02/24	08/05/24	
Surrogate: 1,2-Dichloroethane-d4		96.2 %	70-130	08/02/24	08/05/24	
Surrogate: Toluene-d8		98.1 %	70-130	08/02/24	08/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2431136
Diesel Range Organics (C10-C28)	ND	25.0	1	08/02/24	08/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/02/24	08/03/24	
Surrogate: n-Nonane		133 %	50-200	08/02/24	08/03/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2431139
Chloride	ND	20.0	1	08/02/24	08/02/24	



Sample Data

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

Project Name: New Mexico A State #1
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
8/7/2024 9:28:47AM

WH2-Surface

E408011-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2431140
Benzene	ND	0.0250	1	08/02/24	08/05/24	
Ethylbenzene	ND	0.0250	1	08/02/24	08/05/24	
Toluene	ND	0.0250	1	08/02/24	08/05/24	
o-Xylene	ND	0.0250	1	08/02/24	08/05/24	
p,m-Xylene	ND	0.0500	1	08/02/24	08/05/24	
Total Xylenes	ND	0.0250	1	08/02/24	08/05/24	
Surrogate: Bromofluorobenzene		101 %	70-130	08/02/24	08/05/24	
Surrogate: 1,2-Dichloroethane-d4		95.9 %	70-130	08/02/24	08/05/24	
Surrogate: Toluene-d8		99.3 %	70-130	08/02/24	08/05/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2431140
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/02/24	08/05/24	
Surrogate: Bromofluorobenzene		101 %	70-130	08/02/24	08/05/24	
Surrogate: 1,2-Dichloroethane-d4		95.9 %	70-130	08/02/24	08/05/24	
Surrogate: Toluene-d8		99.3 %	70-130	08/02/24	08/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2431136
Diesel Range Organics (C10-C28)	ND	25.0	1	08/02/24	08/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/02/24	08/03/24	
Surrogate: n-Nonane		124 %	50-200	08/02/24	08/03/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2431139
Chloride	ND	20.0	1	08/02/24	08/02/24	



Sample Data

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

Project Name: New Mexico A State #1
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
8/7/2024 9:28:47AM

WH2-4'

E408011-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2431140
Benzene	ND	0.0250	1	08/02/24	08/05/24	
Ethylbenzene	ND	0.0250	1	08/02/24	08/05/24	
Toluene	ND	0.0250	1	08/02/24	08/05/24	
o-Xylene	ND	0.0250	1	08/02/24	08/05/24	
p,m-Xylene	ND	0.0500	1	08/02/24	08/05/24	
Total Xylenes	ND	0.0250	1	08/02/24	08/05/24	
Surrogate: Bromofluorobenzene	99.1 %	70-130		08/02/24	08/05/24	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		08/02/24	08/05/24	
Surrogate: Toluene-d8	97.2 %	70-130		08/02/24	08/05/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2431140
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/02/24	08/05/24	
Surrogate: Bromofluorobenzene	99.1 %	70-130		08/02/24	08/05/24	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		08/02/24	08/05/24	
Surrogate: Toluene-d8	97.2 %	70-130		08/02/24	08/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2431136
Diesel Range Organics (C10-C28)	ND	25.0	1	08/02/24	08/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/02/24	08/03/24	
Surrogate: n-Nonane	123 %	50-200		08/02/24	08/03/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2431139
Chloride	ND	20.0	1	08/02/24	08/02/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	New Mexico A State #1	Reported: 8/7/2024 9:28:47AM
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

WH3-Surface
E408011-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2431140
Benzene	ND	0.0250	1	08/02/24	08/05/24	
Ethylbenzene	ND	0.0250	1	08/02/24	08/05/24	
Toluene	ND	0.0250	1	08/02/24	08/05/24	
o-Xylene	ND	0.0250	1	08/02/24	08/05/24	
p,m-Xylene	ND	0.0500	1	08/02/24	08/05/24	
Total Xylenes	ND	0.0250	1	08/02/24	08/05/24	
Surrogate: Bromofluorobenzene		102 %	70-130	08/02/24	08/05/24	
Surrogate: 1,2-Dichloroethane-d4		98.1 %	70-130	08/02/24	08/05/24	
Surrogate: Toluene-d8		98.7 %	70-130	08/02/24	08/05/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2431140
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/02/24	08/05/24	
Surrogate: Bromofluorobenzene		102 %	70-130	08/02/24	08/05/24	
Surrogate: 1,2-Dichloroethane-d4		98.1 %	70-130	08/02/24	08/05/24	
Surrogate: Toluene-d8		98.7 %	70-130	08/02/24	08/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2431136
Diesel Range Organics (C10-C28)	ND	25.0	1	08/02/24	08/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/02/24	08/03/24	
Surrogate: n-Nonane		123 %	50-200	08/02/24	08/03/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2431139
Chloride	ND	20.0	1	08/02/24	08/02/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	New Mexico A State #1	Reported: 8/7/2024 9:28:47AM
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

WH3-4'

E408011-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2431140
Benzene	ND	0.0250	1	08/02/24	08/05/24	
Ethylbenzene	ND	0.0250	1	08/02/24	08/05/24	
Toluene	ND	0.0250	1	08/02/24	08/05/24	
o-Xylene	ND	0.0250	1	08/02/24	08/05/24	
p,m-Xylene	ND	0.0500	1	08/02/24	08/05/24	
Total Xylenes	ND	0.0250	1	08/02/24	08/05/24	
Surrogate: Bromofluorobenzene		101 %	70-130	08/02/24	08/05/24	
Surrogate: 1,2-Dichloroethane-d4		99.2 %	70-130	08/02/24	08/05/24	
Surrogate: Toluene-d8		97.7 %	70-130	08/02/24	08/05/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2431140
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/02/24	08/05/24	
Surrogate: Bromofluorobenzene		101 %	70-130	08/02/24	08/05/24	
Surrogate: 1,2-Dichloroethane-d4		99.2 %	70-130	08/02/24	08/05/24	
Surrogate: Toluene-d8		97.7 %	70-130	08/02/24	08/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2431136
Diesel Range Organics (C10-C28)	ND	25.0	1	08/02/24	08/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/02/24	08/03/24	
Surrogate: n-Nonane		122 %	50-200	08/02/24	08/03/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2431139
Chloride	ND	20.0	1	08/02/24	08/02/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	New Mexico A State #1	Reported: 8/7/2024 9:28:47AM
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

WH4-Surface
E408011-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2431140
Benzene	ND	0.0250	1	08/02/24	08/05/24	
Ethylbenzene	ND	0.0250	1	08/02/24	08/05/24	
Toluene	ND	0.0250	1	08/02/24	08/05/24	
o-Xylene	ND	0.0250	1	08/02/24	08/05/24	
p,m-Xylene	ND	0.0500	1	08/02/24	08/05/24	
Total Xylenes	ND	0.0250	1	08/02/24	08/05/24	
Surrogate: Bromofluorobenzene		102 %	70-130	08/02/24	08/05/24	
Surrogate: 1,2-Dichloroethane-d4		97.2 %	70-130	08/02/24	08/05/24	
Surrogate: Toluene-d8		96.6 %	70-130	08/02/24	08/05/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2431140
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/02/24	08/05/24	
Surrogate: Bromofluorobenzene		102 %	70-130	08/02/24	08/05/24	
Surrogate: 1,2-Dichloroethane-d4		97.2 %	70-130	08/02/24	08/05/24	
Surrogate: Toluene-d8		96.6 %	70-130	08/02/24	08/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2431136
Diesel Range Organics (C10-C28)	ND	25.0	1	08/02/24	08/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/02/24	08/03/24	
Surrogate: n-Nonane		124 %	50-200	08/02/24	08/03/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2431139
Chloride	ND	20.0	1	08/02/24	08/02/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	New Mexico A State #1	Reported: 8/7/2024 9:28:47AM
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

WH4-4'

E408011-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2431140
Benzene	ND	0.0250	1	08/02/24	08/05/24	
Ethylbenzene	ND	0.0250	1	08/02/24	08/05/24	
Toluene	ND	0.0250	1	08/02/24	08/05/24	
o-Xylene	ND	0.0250	1	08/02/24	08/05/24	
p,m-Xylene	ND	0.0500	1	08/02/24	08/05/24	
Total Xylenes	ND	0.0250	1	08/02/24	08/05/24	
Surrogate: Bromofluorobenzene		101 %	70-130	08/02/24	08/05/24	
Surrogate: 1,2-Dichloroethane-d4		97.9 %	70-130	08/02/24	08/05/24	
Surrogate: Toluene-d8		99.3 %	70-130	08/02/24	08/05/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2431140
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/02/24	08/05/24	
Surrogate: Bromofluorobenzene		101 %	70-130	08/02/24	08/05/24	
Surrogate: 1,2-Dichloroethane-d4		97.9 %	70-130	08/02/24	08/05/24	
Surrogate: Toluene-d8		99.3 %	70-130	08/02/24	08/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2431136
Diesel Range Organics (C10-C28)	ND	25.0	1	08/02/24	08/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/02/24	08/03/24	
Surrogate: n-Nonane		123 %	50-200	08/02/24	08/03/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2431139
Chloride	ND	20.0	1	08/02/24	08/02/24	



Sample Data

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

Project Name: New Mexico A State #1
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
8/7/2024 9:28:47AM

WN1 Comp

E408011-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2431140
Benzene	ND	0.0250	1	08/02/24	08/05/24	
Ethylbenzene	ND	0.0250	1	08/02/24	08/05/24	
Toluene	ND	0.0250	1	08/02/24	08/05/24	
o-Xylene	ND	0.0250	1	08/02/24	08/05/24	
p,m-Xylene	ND	0.0500	1	08/02/24	08/05/24	
Total Xylenes	ND	0.0250	1	08/02/24	08/05/24	
Surrogate: Bromofluorobenzene		102 %	70-130	08/02/24	08/05/24	
Surrogate: 1,2-Dichloroethane-d4		94.5 %	70-130	08/02/24	08/05/24	
Surrogate: Toluene-d8		99.6 %	70-130	08/02/24	08/05/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2431140
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/02/24	08/05/24	
Surrogate: Bromofluorobenzene		102 %	70-130	08/02/24	08/05/24	
Surrogate: 1,2-Dichloroethane-d4		94.5 %	70-130	08/02/24	08/05/24	
Surrogate: Toluene-d8		99.6 %	70-130	08/02/24	08/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2431136
Diesel Range Organics (C10-C28)	ND	25.0	1	08/02/24	08/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/02/24	08/03/24	
Surrogate: n-Nonane		121 %	50-200	08/02/24	08/03/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2431139
Chloride	ND	20.0	1	08/02/24	08/02/24	



Sample Data

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

Project Name: New Mexico A State #1
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
8/7/2024 9:28:47AM

WN2 Comp

E408011-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2431140
Benzene	ND	0.0250	1	08/02/24	08/05/24	
Ethylbenzene	ND	0.0250	1	08/02/24	08/05/24	
Toluene	ND	0.0250	1	08/02/24	08/05/24	
o-Xylene	ND	0.0250	1	08/02/24	08/05/24	
p,m-Xylene	ND	0.0500	1	08/02/24	08/05/24	
Total Xylenes	ND	0.0250	1	08/02/24	08/05/24	
Surrogate: Bromofluorobenzene		101 %	70-130	08/02/24	08/05/24	
Surrogate: 1,2-Dichloroethane-d4		97.1 %	70-130	08/02/24	08/05/24	
Surrogate: Toluene-d8		97.0 %	70-130	08/02/24	08/05/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2431140
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/02/24	08/05/24	
Surrogate: Bromofluorobenzene		101 %	70-130	08/02/24	08/05/24	
Surrogate: 1,2-Dichloroethane-d4		97.1 %	70-130	08/02/24	08/05/24	
Surrogate: Toluene-d8		97.0 %	70-130	08/02/24	08/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2431136
Diesel Range Organics (C10-C28)	ND	25.0	1	08/02/24	08/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/02/24	08/03/24	
Surrogate: n-Nonane		122 %	50-200	08/02/24	08/03/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2431139
Chloride	ND	20.0	1	08/02/24	08/02/24	



Sample Data

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

Project Name: New Mexico A State #1
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
8/7/2024 9:28:47AM

WE1 Comp
E408011-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2431140
Benzene	ND	0.0250	1	08/02/24	08/05/24	
Ethylbenzene	ND	0.0250	1	08/02/24	08/05/24	
Toluene	ND	0.0250	1	08/02/24	08/05/24	
o-Xylene	ND	0.0250	1	08/02/24	08/05/24	
p,m-Xylene	ND	0.0500	1	08/02/24	08/05/24	
Total Xylenes	ND	0.0250	1	08/02/24	08/05/24	
Surrogate: Bromofluorobenzene		100 %	70-130	08/02/24	08/05/24	
Surrogate: 1,2-Dichloroethane-d4		98.3 %	70-130	08/02/24	08/05/24	
Surrogate: Toluene-d8		100 %	70-130	08/02/24	08/05/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2431140
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/02/24	08/05/24	
Surrogate: Bromofluorobenzene		100 %	70-130	08/02/24	08/05/24	
Surrogate: 1,2-Dichloroethane-d4		98.3 %	70-130	08/02/24	08/05/24	
Surrogate: Toluene-d8		100 %	70-130	08/02/24	08/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2431136
Diesel Range Organics (C10-C28)	ND	25.0	1	08/02/24	08/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/02/24	08/03/24	
Surrogate: n-Nonane		123 %	50-200	08/02/24	08/03/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2431139
Chloride	ND	20.0	1	08/02/24	08/02/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	New Mexico A State #1	Reported: 8/7/2024 9:28:47AM
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

WE2 Comp
E408011-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2431140
Benzene	ND	0.0250	1	08/02/24	08/05/24	
Ethylbenzene	ND	0.0250	1	08/02/24	08/05/24	
Toluene	ND	0.0250	1	08/02/24	08/05/24	
o-Xylene	ND	0.0250	1	08/02/24	08/05/24	
p,m-Xylene	ND	0.0500	1	08/02/24	08/05/24	
Total Xylenes	ND	0.0250	1	08/02/24	08/05/24	
Surrogate: Bromofluorobenzene	99.9 %	70-130		08/02/24	08/05/24	
Surrogate: 1,2-Dichloroethane-d4	98.8 %	70-130		08/02/24	08/05/24	
Surrogate: Toluene-d8	99.6 %	70-130		08/02/24	08/05/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2431140
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/02/24	08/05/24	
Surrogate: Bromofluorobenzene	99.9 %	70-130		08/02/24	08/05/24	
Surrogate: 1,2-Dichloroethane-d4	98.8 %	70-130		08/02/24	08/05/24	
Surrogate: Toluene-d8	99.6 %	70-130		08/02/24	08/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2431136
Diesel Range Organics (C10-C28)	ND	25.0	1	08/02/24	08/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/02/24	08/03/24	
Surrogate: n-Nonane	124 %	50-200		08/02/24	08/03/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2431139
Chloride	ND	20.0	1	08/02/24	08/02/24	



Sample Data

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

Project Name: New Mexico A State #1
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
8/7/2024 9:28:47AM

WS1 Comp
E408011-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2431133
Benzene	ND	0.0250	1	08/02/24	08/02/24	
Ethylbenzene	ND	0.0250	1	08/02/24	08/02/24	
Toluene	ND	0.0250	1	08/02/24	08/02/24	
o-Xylene	ND	0.0250	1	08/02/24	08/02/24	
p,m-Xylene	ND	0.0500	1	08/02/24	08/02/24	
Total Xylenes	ND	0.0250	1	08/02/24	08/02/24	
Surrogate: Bromofluorobenzene		101 %	70-130	08/02/24	08/02/24	
Surrogate: 1,2-Dichloroethane-d4		95.3 %	70-130	08/02/24	08/02/24	
Surrogate: Toluene-d8		97.2 %	70-130	08/02/24	08/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2431133
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/02/24	08/02/24	
Surrogate: Bromofluorobenzene		101 %	70-130	08/02/24	08/02/24	
Surrogate: 1,2-Dichloroethane-d4		95.3 %	70-130	08/02/24	08/02/24	
Surrogate: Toluene-d8		97.2 %	70-130	08/02/24	08/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2431124
Diesel Range Organics (C10-C28)	ND	25.0	1	08/02/24	08/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/02/24	08/03/24	
Surrogate: n-Nonane		131 %	50-200	08/02/24	08/03/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2431123
Chloride	ND	20.0	1	08/02/24	08/02/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	New Mexico A State #1	Reported: 8/7/2024 9:28:47AM
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

WS2 Comp
E408011-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2431133
Benzene	ND	0.0250	1	08/02/24	08/02/24	
Ethylbenzene	ND	0.0250	1	08/02/24	08/02/24	
Toluene	ND	0.0250	1	08/02/24	08/02/24	
o-Xylene	ND	0.0250	1	08/02/24	08/02/24	
p,m-Xylene	ND	0.0500	1	08/02/24	08/02/24	
Total Xylenes	ND	0.0250	1	08/02/24	08/02/24	
Surrogate: Bromofluorobenzene		102 %	70-130	08/02/24	08/02/24	
Surrogate: 1,2-Dichloroethane-d4		97.2 %	70-130	08/02/24	08/02/24	
Surrogate: Toluene-d8		98.7 %	70-130	08/02/24	08/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2431133
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/02/24	08/02/24	
Surrogate: Bromofluorobenzene		102 %	70-130	08/02/24	08/02/24	
Surrogate: 1,2-Dichloroethane-d4		97.2 %	70-130	08/02/24	08/02/24	
Surrogate: Toluene-d8		98.7 %	70-130	08/02/24	08/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2431124
Diesel Range Organics (C10-C28)	ND	25.0	1	08/02/24	08/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/02/24	08/03/24	
Surrogate: n-Nonane		125 %	50-200	08/02/24	08/03/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2431123
Chloride	ND	20.0	1	08/02/24	08/02/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	New Mexico A State #1	Reported: 8/7/2024 9:28:47AM
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

WW1 Comp
E408011-23

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS		Batch: 2431133	
Benzene	ND	0.0250	1	08/02/24	08/02/24	
Ethylbenzene	ND	0.0250	1	08/02/24	08/02/24	
Toluene	ND	0.0250	1	08/02/24	08/02/24	
o-Xylene	ND	0.0250	1	08/02/24	08/02/24	
p,m-Xylene	ND	0.0500	1	08/02/24	08/02/24	
Total Xylenes	ND	0.0250	1	08/02/24	08/02/24	
Surrogate: Bromofluorobenzene		102 %	70-130	08/02/24	08/02/24	
Surrogate: 1,2-Dichloroethane-d4		97.1 %	70-130	08/02/24	08/02/24	
Surrogate: Toluene-d8		98.5 %	70-130	08/02/24	08/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2431133	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/02/24	08/02/24	
Surrogate: Bromofluorobenzene		102 %	70-130	08/02/24	08/02/24	
Surrogate: 1,2-Dichloroethane-d4		97.1 %	70-130	08/02/24	08/02/24	
Surrogate: Toluene-d8		98.5 %	70-130	08/02/24	08/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2431124	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/02/24	08/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/02/24	08/03/24	
Surrogate: n-Nonane		124 %	50-200	08/02/24	08/03/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2431123	
Chloride	ND	20.0	1	08/02/24	08/02/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	New Mexico A State #1	Reported: 8/7/2024 9:28:47AM
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

WW2 Comp
E408011-24

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2431133
Benzene	ND	0.0250	1	08/02/24	08/02/24	
Ethylbenzene	ND	0.0250	1	08/02/24	08/02/24	
Toluene	ND	0.0250	1	08/02/24	08/02/24	
o-Xylene	ND	0.0250	1	08/02/24	08/02/24	
p,m-Xylene	ND	0.0500	1	08/02/24	08/02/24	
Total Xylenes	ND	0.0250	1	08/02/24	08/02/24	
Surrogate: Bromofluorobenzene		100 %	70-130	08/02/24	08/02/24	
Surrogate: 1,2-Dichloroethane-d4		96.5 %	70-130	08/02/24	08/02/24	
Surrogate: Toluene-d8		96.4 %	70-130	08/02/24	08/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2431133
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/02/24	08/02/24	
Surrogate: Bromofluorobenzene		100 %	70-130	08/02/24	08/02/24	
Surrogate: 1,2-Dichloroethane-d4		96.5 %	70-130	08/02/24	08/02/24	
Surrogate: Toluene-d8		96.4 %	70-130	08/02/24	08/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2431124
Diesel Range Organics (C10-C28)	ND	25.0	1	08/02/24	08/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/02/24	08/03/24	
Surrogate: n-Nonane		128 %	50-200	08/02/24	08/03/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2431123
Chloride	ND	20.0	1	08/02/24	08/02/24	



Sample Data

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

Project Name: New Mexico A State #1
Project Number: 21068-0001
Project Manager: Tom Bynum

Reported:
8/7/2024 9:28:47AM

BG1

E408011-25

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2431133
Benzene	ND	0.0250	1	08/02/24	08/02/24	
Ethylbenzene	ND	0.0250	1	08/02/24	08/02/24	
Toluene	ND	0.0250	1	08/02/24	08/02/24	
o-Xylene	ND	0.0250	1	08/02/24	08/02/24	
p,m-Xylene	ND	0.0500	1	08/02/24	08/02/24	
Total Xylenes	ND	0.0250	1	08/02/24	08/02/24	
Surrogate: Bromofluorobenzene		101 %	70-130	08/02/24	08/02/24	
Surrogate: 1,2-Dichloroethane-d4		97.3 %	70-130	08/02/24	08/02/24	
Surrogate: Toluene-d8		97.6 %	70-130	08/02/24	08/02/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2431133
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/02/24	08/02/24	
Surrogate: Bromofluorobenzene		101 %	70-130	08/02/24	08/02/24	
Surrogate: 1,2-Dichloroethane-d4		97.3 %	70-130	08/02/24	08/02/24	
Surrogate: Toluene-d8		97.6 %	70-130	08/02/24	08/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2431124
Diesel Range Organics (C10-C28)	ND	25.0	1	08/02/24	08/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/02/24	08/03/24	
Surrogate: n-Nonane		128 %	50-200	08/02/24	08/03/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2431123
Chloride	ND	20.0	1	08/02/24	08/02/24	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	New Mexico A State #1	Reported:
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	8/7/2024 9:28:47AM

Volatile Organic Compounds by EPA 8260B

Analyst: RKS

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

Blank (2431133-BLK1) Prepared: 08/02/24 Analyzed: 08/02/24

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	0.501		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.473		0.500		94.5	70-130			
Surrogate: Toluene-d8	0.483		0.500		96.6	70-130			

LCS (2431133-BS1) Prepared: 08/02/24 Analyzed: 08/06/24

Benzene	2.41	0.0250	2.50		96.5	70-130			
Ethylbenzene	2.43	0.0250	2.50		97.1	70-130			
Toluene	2.29	0.0250	2.50		91.6	70-130			
o-Xylene	2.41	0.0250	2.50		96.5	70-130			
p,m-Xylene	4.83	0.0500	5.00		96.7	70-130			
Total Xylenes	7.25	0.0250	7.50		96.6	70-130			
Surrogate: Bromofluorobenzene	0.523		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.462		0.500		92.4	70-130			
Surrogate: Toluene-d8	0.494		0.500		98.7	70-130			

Matrix Spike (2431133-MS1) Source: E408004-03 Prepared: 08/02/24 Analyzed: 08/02/24

Benzene	2.56	0.0250	2.50	ND	102	48-131			
Ethylbenzene	2.65	0.0250	2.50	ND	106	45-135			
Toluene	2.49	0.0250	2.50	ND	99.6	48-130			
o-Xylene	2.67	0.0250	2.50	ND	107	43-135			
p,m-Xylene	5.31	0.0500	5.00	ND	106	43-135			
Total Xylenes	7.98	0.0250	7.50	ND	106	43-135			
Surrogate: Bromofluorobenzene	0.520		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.485		0.500		97.0	70-130			
Surrogate: Toluene-d8	0.505		0.500		101	70-130			

Matrix Spike Dup (2431133-MSD1) Source: E408004-03 Prepared: 08/02/24 Analyzed: 08/02/24

Benzene	2.60	0.0250	2.50	ND	104	48-131	1.76	23	
Ethylbenzene	2.71	0.0250	2.50	ND	108	45-135	2.07	27	
Toluene	2.54	0.0250	2.50	ND	102	48-130	1.99	24	
o-Xylene	2.77	0.0250	2.50	ND	111	43-135	3.66	27	
p,m-Xylene	5.52	0.0500	5.00	ND	110	43-135	3.87	27	
Total Xylenes	8.29	0.0250	7.50	ND	111	43-135	3.80	27	
Surrogate: Bromofluorobenzene	0.524		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.475		0.500		94.9	70-130			
Surrogate: Toluene-d8	0.503		0.500		101	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	New Mexico A State #1	Reported:
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	8/7/2024 9:28:47AM

Volatile Organic Compounds by EPA 8260B

Analyst: RKS

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

Blank (2431140-BLK1) Prepared: 08/02/24 Analyzed: 08/05/24

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	0.517		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.477		0.500		95.4	70-130			
Surrogate: Toluene-d8	0.492		0.500		98.3	70-130			

LCS (2431140-BS1) Prepared: 08/02/24 Analyzed: 08/05/24

Benzene	2.40	0.0250	2.50		95.9	70-130			
Ethylbenzene	2.42	0.0250	2.50		97.0	70-130			
Toluene	2.27	0.0250	2.50		90.9	70-130			
o-Xylene	2.47	0.0250	2.50		98.7	70-130			
p,m-Xylene	4.93	0.0500	5.00		98.7	70-130			
Total Xylenes	7.40	0.0250	7.50		98.7	70-130			
Surrogate: Bromofluorobenzene	0.506		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.486		0.500		97.2	70-130			
Surrogate: Toluene-d8	0.494		0.500		98.7	70-130			

Matrix Spike (2431140-MS1) Source: E408011-11 Prepared: 08/02/24 Analyzed: 08/05/24

Benzene	2.37	0.0250	2.50	ND	94.8	48-131			
Ethylbenzene	2.43	0.0250	2.50	ND	97.3	45-135			
Toluene	2.26	0.0250	2.50	ND	90.5	48-130			
o-Xylene	2.46	0.0250	2.50	ND	98.3	43-135			
p,m-Xylene	4.89	0.0500	5.00	ND	97.8	43-135			
Total Xylenes	7.35	0.0250	7.50	ND	98.0	43-135			
Surrogate: Bromofluorobenzene	0.517		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.467		0.500		93.3	70-130			
Surrogate: Toluene-d8	0.492		0.500		98.4	70-130			

Matrix Spike Dup (2431140-MSD1) Source: E408011-11 Prepared: 08/02/24 Analyzed: 08/05/24

Benzene	2.22	0.0250	2.50	ND	88.9	48-131	6.42	23	
Ethylbenzene	2.32	0.0250	2.50	ND	92.8	45-135	4.74	27	
Toluene	2.14	0.0250	2.50	ND	85.7	48-130	5.50	24	
o-Xylene	2.35	0.0250	2.50	ND	93.8	43-135	4.64	27	
p,m-Xylene	4.69	0.0500	5.00	ND	93.7	43-135	4.26	27	
Total Xylenes	7.03	0.0250	7.50	ND	93.8	43-135	4.39	27	
Surrogate: Bromofluorobenzene	0.510		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.476		0.500		95.2	70-130			
Surrogate: Toluene-d8	0.494		0.500		98.8	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	New Mexico A State #1	Reported:
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	8/7/2024 9:28:47AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2431133-BLK1) Prepared: 08/02/24 Analyzed: 08/02/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.501		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.473		0.500		94.5	70-130			
Surrogate: Toluene-d8	0.483		0.500		96.6	70-130			

LCS (2431133-BS2) Prepared: 08/02/24 Analyzed: 08/02/24

Gasoline Range Organics (C6-C10)	43.3	20.0	50.0		86.7	70-130			
Surrogate: Bromofluorobenzene	0.521		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.495		0.500		99.0	70-130			
Surrogate: Toluene-d8	0.502		0.500		100	70-130			

Matrix Spike (2431133-MS2) Source: E408004-03 Prepared: 08/02/24 Analyzed: 08/06/24

Gasoline Range Organics (C6-C10)	44.2	20.0	50.0	ND	88.4	70-130			
Surrogate: Bromofluorobenzene	0.513		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.476		0.500		95.1	70-130			
Surrogate: Toluene-d8	0.509		0.500		102	70-130			

Matrix Spike Dup (2431133-MSD2) Source: E408004-03 Prepared: 08/02/24 Analyzed: 08/02/24

Gasoline Range Organics (C6-C10)	50.1	20.0	50.0	ND	100	70-130	12.5	20	
Surrogate: Bromofluorobenzene	0.523		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.471		0.500		94.1	70-130			
Surrogate: Toluene-d8	0.502		0.500		100	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	New Mexico A State #1	Reported:
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	8/7/2024 9:28:47AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2431140-BLK1) Prepared: 08/02/24 Analyzed: 08/05/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.517		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.477		0.500		95.4	70-130			
Surrogate: Toluene-d8	0.492		0.500		98.3	70-130			

LCS (2431140-BS2) Prepared: 08/02/24 Analyzed: 08/05/24

Gasoline Range Organics (C6-C10)	46.4	20.0	50.0		92.8	70-130			
Surrogate: Bromofluorobenzene	0.505		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.471		0.500		94.1	70-130			
Surrogate: Toluene-d8	0.504		0.500		101	70-130			

Matrix Spike (2431140-MS2) Source: E408011-11 Prepared: 08/02/24 Analyzed: 08/05/24

Gasoline Range Organics (C6-C10)	42.2	20.0	50.0	ND	84.3	70-130			
Surrogate: Bromofluorobenzene	0.515		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.468		0.500		93.5	70-130			
Surrogate: Toluene-d8	0.499		0.500		99.8	70-130			

Matrix Spike Dup (2431140-MSD2) Source: E408011-11 Prepared: 08/02/24 Analyzed: 08/05/24

Gasoline Range Organics (C6-C10)	45.9	20.0	50.0	ND	91.9	70-130	8.56	20	
Surrogate: Bromofluorobenzene	0.513		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.476		0.500		95.2	70-130			
Surrogate: Toluene-d8	0.508		0.500		102	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	New Mexico A State #1	Reported:
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	8/7/2024 9:28:47AM

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 (2431124-BLK1)					Prepared: 08/02/24 Analyzed: 08/02/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	64.0		50.0		128	50-200			

LCS (2431124-BS1)					Prepared: 08/02/24 Analyzed: 08/02/24				
Diesel Range Organics (C10-C28)	327	25.0	250		131	38-132			
Surrogate: n-Nonane	63.5		50.0		127	50-200			

Matrix Spike (2431124-MS1)					Source: E408005-04		Prepared: 08/02/24 Analyzed: 08/02/24		
Diesel Range Organics (C10-C28)	324	25.0	250	ND	129	38-132			
Surrogate: n-Nonane	61.8		50.0		124	50-200			

Matrix Spike Dup (2431124-MSD1)					Source: E408005-04		Prepared: 08/02/24 Analyzed: 08/02/24		
Diesel Range Organics (C10-C28)	326	25.0	250	ND	131	38-132	0.809	20	
Surrogate: n-Nonane	63.2		50.0		126	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	New Mexico A State #1	Reported:
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	8/7/2024 9:28:47AM

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 (2431136-BLK1)					Prepared: 08/02/24 Analyzed: 08/02/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	62.0		50.0		124	50-200			

LCS (2431136-BS1)					Prepared: 08/02/24 Analyzed: 08/02/24				
Diesel Range Organics (C10-C28)	287	25.0	250		115	38-132			
Surrogate: n-Nonane	63.6		50.0		127	50-200			

Matrix Spike (2431136-MS1)					Source: E408011-06		Prepared: 08/02/24 Analyzed: 08/02/24		
Diesel Range Organics (C10-C28)	295	25.0	250	ND	118	38-132			
Surrogate: n-Nonane	63.9		50.0		128	50-200			

Matrix Spike Dup (2431136-MSD1)					Source: E408011-06		Prepared: 08/02/24 Analyzed: 08/02/24		
Diesel Range Organics (C10-C28)	295	25.0	250	ND	118	38-132	0.209	20	
Surrogate: n-Nonane	62.8		50.0		126	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	New Mexico A State #1	Reported:
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	8/7/2024 9:28:47AM

Anions by EPA 300.0/9056A

Analyst: DT

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

Blank (2431123-BLK1)					Prepared: 08/02/24 Analyzed: 08/02/24				
Chloride	ND	20.0							
LCS (2431123-BS1)					Prepared: 08/02/24 Analyzed: 08/02/24				
Chloride	250	20.0	250		100	90-110			
LCS Dup (2431123-BSD1)					Prepared: 08/02/24 Analyzed: 08/02/24				
Chloride	251	20.0	250		101	90-110	0.500	20	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	New Mexico A State #1	Reported:
PO Box 247	Project Number:	21068-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	8/7/2024 9:28:47AM

Anions by EPA 300.0/9056A

Analyst: JM

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

Blank (2431139-BLK1)					Prepared: 08/02/24 Analyzed: 08/02/24				
Chloride	ND	20.0							
LCS (2431139-BS1)					Prepared: 08/02/24 Analyzed: 08/02/24				
Chloride	254	20.0	250		102	90-110			
Matrix Spike (2431139-MS1)					Source: E408011-11		Prepared: 08/02/24 Analyzed: 08/02/24		
Chloride	252	20.0	250	ND	101	80-120			
Matrix Spike Dup (2431139-MSD1)					Source: E408011-11		Prepared: 08/02/24 Analyzed: 08/02/24		
Chloride	252	20.0	250	ND	101	80-120	0.324	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:	New Mexico A State #1	
PO Box 247	Project Number:	21068-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	08/07/24 09:28

- 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 5 of 7

Client: Pima Environmental Services					Bill To		Lab Use Only						TAT				EPA Program		
Project: New Mexico A State #1					Attention: Pima Environmental		Lab WO#		Job Number				1D	2D	3D	Standard	CWA	SDWA	
Project Manager: Tom Bynum					Address:		E488011		21064-0001							X			
Address: 5614 N. Lovington Hwy.					City, State, Zip		Analysis and Method											RCRA	
City, State, Zip Hobbs, NM, 88240					Phone:		DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC NM	BGDOC TX		State		
Phone: 806-782-1151					Email:												NM	CO	
Email: tom@pimaoil.com					Pima Project # 36-1												UT	AZ	
Report due by:																	TX		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Remarks													
11:45	7/30	S	1	W1 Comp	1														
11:51				W2 Comp	2														
11:56				W3 Comp	3														
12:11				W4 Comp	4														
12:16				P1-Surface	5														
12:25				P1-2'	6														
12:34				P2-Surface	7														
12:37				P2-2'	8														
12:42				WH1-3'	9														
12:56				WH1-6'	10														

Additional Instructions: Bill to Pima

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:

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	
Karine Adams		8-1-24	2:35	Michelle Gonzales		8-1-24	1435	Received on ice: (Y) / N	
Michelle Gonzales		8-1-24	1650	Candice Briggs		8-1-24	1730	T1 _____ T2 _____ T3 _____	
Candice Briggs		8-1-24	23:59			8/2/24	800	AVG Temp °C 4	

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

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

Project Information

Chain of Custody

Page 6 of 7

Client: Pima Environmental Services		Bill To		Lab Use Only		TAT		EPA Program	
Project: New Mexico A State #1		Attention: Pima Environmental		Lab WO# E408011		Job Number 21064-0001		CWA SDWA	
Project Manager: Tom Bynum		Address:							
Address: 5614 N. Lovington Hwy.		City, State, Zip						Standard X	
City, State, Zip Hobbs, NM. 88240		Phone:						RCRA	
Phone: 806-782-1151		Email:						State	
Email: tom@pimaoil.com		Pima Project # 36-1						NM CO UT AZ TX	
Report due by:								X	

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
1:17	7/30	S	1	WH2-Surface	11							X		
1:23				WH2-4'	12									
1:25				WH3-Surface	13									
1:31				WH3-4'	14									
1:39				WH4-Surface	15									
1:42				WH4-4'	16									
1:45				WN1 Comp	17									
1:56				WN2 Comp	18									
2:00				WE1 Comp	19									
2:11				WE2 Comp	20									

Additional Instructions: Bill to Pima

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

Relinquished by: (Signature) <u>Karime Adams</u>		Date <u>8/1/24</u>	Time <u>2:35</u>	Received by: (Signature) <u>Michelle Gonzales</u>		Date <u>8-1-24</u>	Time <u>1435</u>	Lab Use Only Received on ice: <u>(Y)/ N</u> T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) <u>Michelle Gonzales</u>		Date <u>8-1-24</u>	Time <u>1650</u>	Received by: (Signature) <u>Carnden Briggs</u>		Date <u>8-1-24</u>	Time <u>1730</u>	
Relinquished by: (Signature) <u>Carnden Briggs</u>		Date <u>8-1-24</u>	Time <u>23:59</u>	Received by: (Signature) <u>[Signature]</u>		Date <u>8/2/24</u>	Time <u>800</u>	
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____								Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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

Client: Pima Environmental Services						Bill To							Lab Use Only								TAT				EPA Program			
Project: New Mexico A State #1						Attention: Pima Environmental							Lab WO# E408011				Job Number 21064-0001				1D	2D	3D	Standard		CWA	SDWA	
Project Manager: Tom Bynum						Address:																		X				
Address: 5614 N. Lovington Hwy.						City, State, Zip							Analysis and Method												RCRA			
City, State, Zip Hobbs, NM. 88240						Phone:																						
Phone: 806-782-1151						Email:																						
Email: tom@pimaoil.com						Pima Project # 36-1																						
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					BDOC NM	BDOC TX			State								
																				NM	CO	UT	AZ	TX				
																X				X								
Remarks																												
2:28	7/30	S	1	WS1 Comp	21											X												
2:36				WS2 Comp	22																							
2:42				WW1 Comp	23																							
2:56				WW2 Comp	24																							
3:11	—			BG1	25																							
Additional Instructions:																												
Bill to Pinar																												
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) Karine Anne Date 8/1/24 Time 2:35 Received by: (Signature) Michelle Gonzales Date 8-1-24 Time 1435															Received on ice: Y N													
Relinquished by: (Signature) Michelle Gonzales Date 8-1-24 Time 1650 Received by: (Signature) Camden Briggs Date 8-1-24 Time 1730															T1 T2 T3													
Relinquished by: (Signature) Camden Briggs Date 8-1-24 Time 2359 Received by: (Signature) [Signature] Date 8/2/24 Time 800															AVG Temp °C 4													
Sample Matrix: S - Soil, SD - Solid, Sg - Sludge, A - Aqueous, O - Other															Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA													
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																												

Envirotech Analytical Laboratory

Printed: 8/2/2024 12:47:30PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Pima Environmental Services-Carlsbad	Date Received:	08/02/24 08:00	Work Order ID:	E408011
Phone:	(575) 631-6977	Date Logged In:	08/01/24 15:33	Logged In By:	Alexa Michaels
Email:	tom@pimaoil.com	Due Date:	08/08/24 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: CouierComments/Resolution

This Project has been separated between WOs E408009-E408011. Sampled by person is missing from COC.

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.



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

November 01, 2024

CLAY TIPTON

MC VAY SERVICES

401 E. BENDER BLVD.

HOBBS, NM 88240

RE: NEW MEXICO A STATE #001

Enclosed are the results of analyses for samples received by the laboratory on 10/31/24 14:21.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

MC VAY SERVICES
CLAY TIPTON
401 E. BENDER BLVD.
HOBBS NM, 88240
Fax To:

Received: 10/31/2024
Reported: 11/01/2024
Project Name: NEW MEXICO A STATE #001
Project Number: NONE GIVEN
Project Location: RAM ENERGY - LEA COUNTY NM

Sampling Date: 10/31/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: WW001 @ 00.5-G-V (H246652-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/01/2024	ND	2.05	103	2.00	13.6	
Toluene*	<0.050	0.050	11/01/2024	ND	2.07	104	2.00	9.37	
Ethylbenzene*	<0.050	0.050	11/01/2024	ND	2.13	107	2.00	8.95	
Total Xylenes*	<0.150	0.150	11/01/2024	ND	6.35	106	6.00	8.38	
Total BTEX	<0.300	0.300	11/01/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	11/01/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/01/2024	ND	208	104	200	3.32	
DRO >C10-C28*	224	10.0	11/01/2024	ND	211	105	200	2.65	
EXT DRO >C28-C36	171	10.0	11/01/2024	ND					

Surrogate: 1-Chlorooctane 89.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.2 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

MC VAY SERVICES
CLAY TIPTON
401 E. BENDER BLVD.
HOBBS NM, 88240
Fax To:

Received: 10/31/2024
Reported: 11/01/2024
Project Name: NEW MEXICO A STATE #001
Project Number: NONE GIVEN
Project Location: RAM ENERGY - LEA COUNTY NM

Sampling Date: 10/31/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: WH001 @ 00.5-G-V (H246652-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/01/2024	ND	2.05	103	2.00	13.6		
Toluene*	<0.050	0.050	11/01/2024	ND	2.07	104	2.00	9.37		
Ethylbenzene*	<0.050	0.050	11/01/2024	ND	2.13	107	2.00	8.95		
Total Xylenes*	<0.150	0.150	11/01/2024	ND	6.35	106	6.00	8.38		
Total BTEx	<0.300	0.300	11/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	11/01/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/01/2024	ND	208	104	200	3.32	
DRO >C10-C28*	108	10.0	11/01/2024	ND	211	105	200	2.65	
EXT DRO >C28-C36	107	10.0	11/01/2024	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

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 403506

QUESTIONS

Operator: RAM ENERGY LLC PO BOX 52521 Tulsa, OK 74152	OGRID: 309777
	Action Number: 403506
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2415048014
Incident Name	NAPP2415048014 NEW MEXICO A STATE @ 0
Incident Type	Complaint
Incident Status	Remediation Plan Received

Location of Release Source	
Please answer all the questions in this group.	
Site Name	NEW MEXICO A STATE
Date Release Discovered	02/05/2024
Surface Owner	State

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Other Other (Specify) Crude Oil Released: 0 BBL (Unknown Released Amount) Recovered: 0 BBL Lost: 0 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	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)	No release was observed by or reported to RAM while operator of record. SLO performed soil sampling on an unlined tank battery with 73 years of production history based on observations of historical satellite imagery. Sample analysis returned TPH above clean-up levels but below 10,000 ppm.

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

General Information
Phone: (505) 629-6116

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

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

QUESTIONS, Page 2

Action 403506

QUESTIONS (continued)

Operator: RAM ENERGY LLC PO BOX 52521 Tulsa, OK 74152	OGRID: 309777
	Action Number: 403506
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. 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	False
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	No released free liquids or recoverable materials remain.

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: Connie Swan Title: Regulatory Administrator Email: cswan@swanderlandok.com Date: 11/14/2024
----------------------------------------------------	------------------------------------------------------------------------------------------------------------

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

QUESTIONS, Page 3

Action 403506

QUESTIONS (continued)

Operator: RAM ENERGY LLC PO BOX 52521 Tulsa, OK 74152	OGRID: 309777
	Action Number: 403506
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS**Site Characterization**

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

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 200 and 300 (ft.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 200 and 300 (ft.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan

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

Requesting a remediation plan approval with this submission	Yes
<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

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

Chloride (EPA 300.0 or SM4500 Cl B)	1040
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	4380
GRO+DRO (EPA SW-846 Method 8015M)	2310
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	12/01/2024
On what date will (or did) the final sampling or liner inspection occur	12/15/2024
On what date will (or was) the remediation complete(d)	12/31/2024
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	9357
What is the estimated volume (in cubic yards) that will be remediated	693

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

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

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QUESTIONS, Page 4

Action 403506

QUESTIONS (continued)

Operator: RAM ENERGY LLC PO BOX 52521 Tulsa, OK 74152	OGRID: 309777
	Action Number: 403506
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Remediation Plan (continued)	
<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>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	LEA LAND LANDFILL [fEEM0112342028]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	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)	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: Connie Swan Title: Regulatory Administrator Email: cswan@swanderlandok.com Date: 11/15/2024
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 403506

QUESTIONS (continued)

Operator: RAM ENERGY LLC PO BOX 52521 Tulsa, OK 74152	OGRID: 309777
	Action Number: 403506
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

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

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QUESTIONS, Page 6

Action 403506

QUESTIONS (continued)

Operator: RAM ENERGY LLC PO BOX 52521 Tulsa, OK 74152	OGRID: 309777
	Action Number: 403506
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	{Unavailable.}

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 403506

CONDITIONS

Operator: RAM ENERGY LLC PO BOX 52521 Tulsa, OK 74152	OGRID: 309777
	Action Number: 403506
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
scwells	Remediation plan approved with conditions: 1) WH1 and WW1 are above reclamation limits so will require remediation, not just delineation. Delineation may be achieved during excavation.	11/26/2024
scwells	2) On pg. 2 RAM ENERGY states: "Delineation sampling within the containment area at sample points S2 and S3 on the map will take place as part of the remediation process. This is to address the state's independent sampling which found discrepancies with the original sampling report in this area." In email that OCD received from Darrell Pennington on 10/11/24, you stated these locations were S2 and S10. Verify correct locations and resample, providing results with next submission to OCD.	11/26/2024
scwells	3) Also on pg. 2 of report it states you will: "Collect confirmation composite samples every 200 sq ft on the floor of the affected area and wellhead area and collect horizontal confirmation samples every 200 ft at the surface of the affected area and wellhead area." Note, that sidewall samples need to be collected every 200 square feet as five point composite samples collected between the maximum depth of excavation and the surface, not just at surface. Submit remediation closure report to the OCD by 2/24/25.	11/26/2024