

Attachments

Figures:

- 1- Location Map
- 2- Topographic Map
- 3- Karst Map
- 4- Confirmation Sample Map (05/08/2024)

Appendices:

Appendix A – Referenced Water Surveys

Appendix B – Soil Survey and Geological Data

Appendix C – 48 Hour Sampling Notification

Appendix D – Photographic Documentation

Appendix E – Laboratory Reports

Pima Environmental Services, LLC 5614 N. Lovington Hwy. Hobbs, NM 88240 575-964-7740

June 4, 2024

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

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

Re: Site Assessment, Remediation, and Closure Report

Government E #007 API No. 30-025-27896

GPS: Latitude 32.6368332 Longitude -103.5160294

UL "C", Sec. 25, T19S, R34E

Lea County, NM

NMOCD Ref. No. NAPP2410959069

Pima Environmental Services, LLC (Pima) has been contracted by Armstrong Energy Corporation to perform a spill assessment, remediation activities, and submit this closure report for a crude oil release at the Government E #007 (Government) site. The initial C-141 was submitted on April 24, 2024 (Appendix C). This incident was assigned Incident ID NAPP2410959069, by the New Mexico Oil Conservation Division (NMOCD).

Site Characterization

The Government is located approximately 14.14 miles northwest of Monument, NM. This spill site is in Unit C, Section 25, Township 19S, Range 34E, Latitude 32.6368332, Longitude -103.5160294, Lea County, NM. Figure 1 references a Location map.

Per the New Mexico Bureau of Geology and Mineral Resources, the geology is Eolian and Piedmont deposits (Holocene to middle Pleistocene). The soil in this area is made up of Pyote and Maljamar fine sand, according to the United States Department of Agriculture Natural Resources Conservation Service soil survey (Appendix B). The drainage courses in this area are well-drained. There is a low potential for karst geology to be present around Government (Figure 3). Additionally, no BLM survey was required for this location.

Based on the well water data from the New Mexico Office of the State Engineer water well (CP 00683 POD1), the depth to the nearest groundwater in this vicinity measures 28 feet below grade surface (BGS), positioned roughly 0.84 miles away from the Government, drilled on July 18, 1985. Conversely, as per the United States Geological Survey well water data (USGS323855103294001), the nearest groundwater depth in this region is recorded at 68 feet BGS, situated approximately 1.50 miles away from the Government, with the last gauge conducted on January 27, 1971. For detailed references to water surveys and the precise locations of water wells, please refer to Appendix A, inclusive of the relevant maps. Notably, the Government is situated within an area with a low potential for karst, as illustrated in Figure 3. Additionally, a comprehensive Topographic Map is available for reference in Figure 2.

Table 1 NMAC and Closure Criteria 19.15.29								
Depth to Groundwater (Appendix A)	Constituent & Limits							
	Chlorides	Total TPH	GRO+DRO	BTEX	Benzene			
<50' (NO GW DATA)	600 mg/kg	100 mg/kg		50 mg/kg	10 mg/kg			
51-100′	10,000 mg/kg	2,500 mg/kg	1,000 mg/kg	50 mg/kg	10 mg/kg			
>100′	20,000 mg/kg	2,500 mg/kg	1,000 mg/kg	50 mg/kg	10 mg/kg			

Reference Figure 2 for a Topographic map.

Release Information

NAPP2410959069: On April 17, 2024, a circulating line failure caused crude oil to be released from the storage tank into the unlined containment area located in the northeast corner of the engineered pad beneath the vertical separator. Upon discovery, the release area was secured, and the standing fluid was recovered using a vacuum truck. A total of 165 barrels of oil were released, with 65 barrels recovered, resulting in a loss of 100 barrels. All the fluid remained within the unlined containment and did not spill onto the engineered pad or neighboring pasture.

Site Assessment and Soil Sampling Results

From April 18 to May 1, Armstrong Energy conducted an urgent excavation of the affected area within the unlined containment to prevent crude oil from seeping further into the soil. They used a track hoe and belly dumps to remove the contaminated material from the site. The excavation covered approximately 1,106 square feet and reached depths of 7 feet and 4 feet below ground surface (bgs). In total, 940 cubic yards of contaminated material were removed and transported to an NMOCD-approved landfill for disposal.

On May 6, 2024, Armstrong Energy proactively submitted a 48-hour sampling notification as part of the preliminary preparations for the final confirmation sampling event. This precautionary step was taken with the expectation that all sampling results would fall below the closure criteria established by the New Mexico Oil Conservation Division (NMOCD). If the results confirm compliance, the closure process will proceed. Additional details can be referenced in Appendix C.

On May 8, 2024, Pima Environmental collected 5 composite bottom samples (labeled CS1-CS5) and 5 composite sidewall samples (labeled CSW1-CSW5). All confirmation samples consist of a five-point composite sample from the excavated area. The bottom samples (CS1 and CS2) were collected at a depth of 4 feet below ground surface (bgs), while the bottom samples (CS3-CS5) were collected at a depth of 7 feet bgs. Sidewall samples (CSW1-CSW3) were collected from depths ranging from the surface to 7 feet bgs, and sidewall samples (CSW4 and CSW5) were collected from depths ranging from the surface to 4 feet bgs. Each bottom sample represented no more than 200 square feet of the excavated area, and each sidewall sample represented no more than 50 linear feet. The soil samples were bagged, placed on ice, and transported to Envirotech in Farmington, NM, for analytical analysis. The laboratory results from this sampling event are presented in the following data table. Figure 4 provides a confirmation site map showing the location of each soil sample.

Sample Results (05-08-2024)

N	NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50')									
	ARMSTRONG ENERGY GOVERNMENT E #007									
Date: 5-8-24	,			NM Appr	oved Labora	atory Resu	lts			
Sample ID	Depth	BTEX	Benzene	GRO	DRO	MRO	Total TPH	Cl		
Sample 1D	(BGS)	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg		
CS1	4'	ND	ND	ND	ND	ND	0	ND		
CS2	4'	ND	ND	ND	ND	ND	0	ND		
CS3	7'	ND	ND	ND	ND	ND	0	ND		
CS4	7'	ND	ND	ND	ND	ND	0	ND		
CS5	7'	ND	ND	ND	ND	ND	0	ND		
CSW1	0-7'	ND	ND	ND	ND	ND	0	ND		
CSW2	0-7'	ND	ND	ND	ND	ND	0	ND		
CSW3	0-7'	ND	ND	ND	ND	ND	0	ND		
CSW4	0-4'	ND	ND	ND	ND	ND	0	ND		
CSW5	0-4'	ND	ND	ND	ND	ND	0	ND		

ND: NON-DETECT

Once it was confirmed that all soil samples were below the NMOCD closure criteria, the excavated area was backfilled with clean material and restored to its original contour. Approximately 960 cubic yards of clean material were brought in to fill the open excavation.

Closure Request

After careful review, Pima requests that this incident, NAPP2410959069, be closed. Armstrong Energy Corporation has complied with the applicable closure requirements set forth in rule 19.15.19.12 NMAC.

Should you have any questions or need additional information, please feel free to contact Sebastian Orozco at 619-721-4813 or Sebastian@pimaoil.com.

Respectfully, Sebastian Crozco

Sebastian Orozco

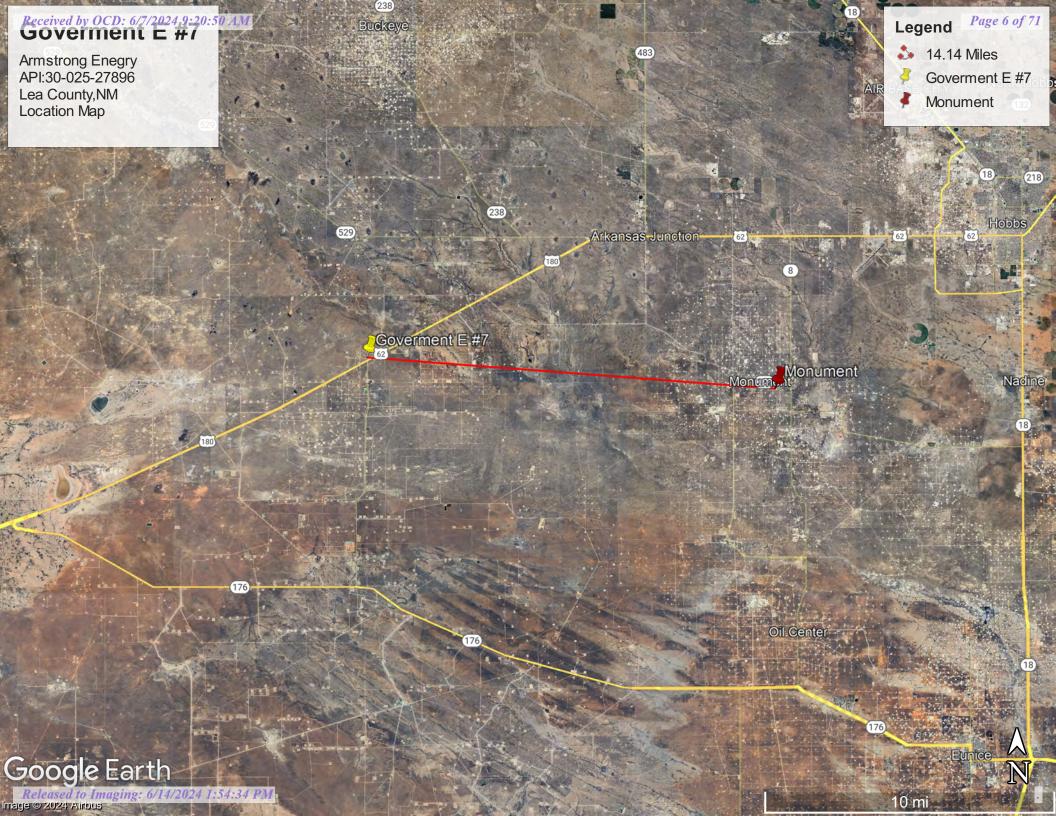
Environmental Project Manager

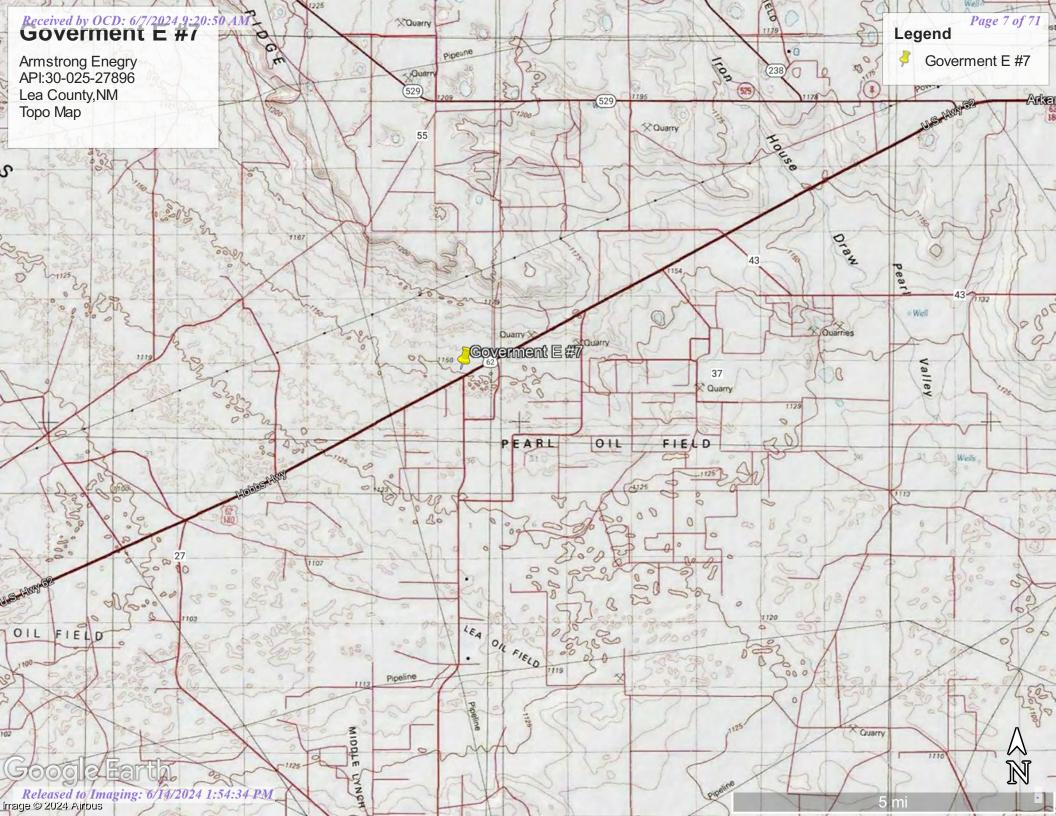
Pima Environmental Services, LLC

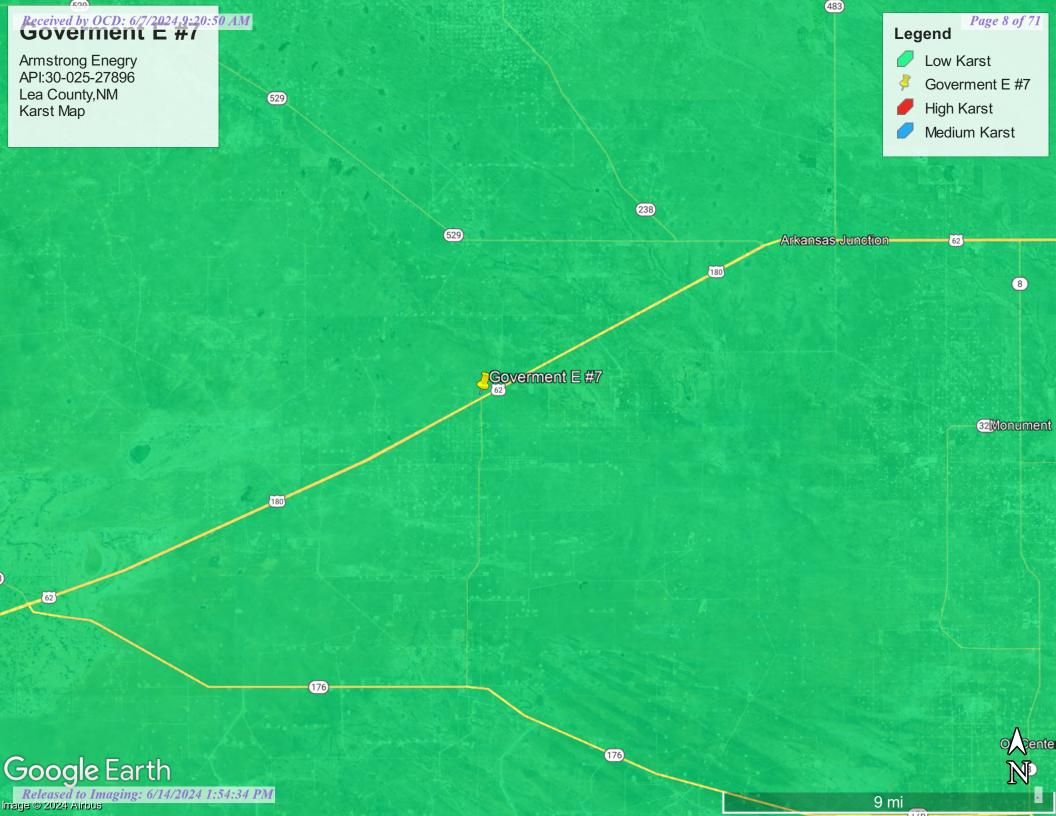


Figures:

- 1. Locaton Map
- 2. Topographic Map
- 3. Karst Map
- 4. Confirmation Sample Map (05/08/2024)

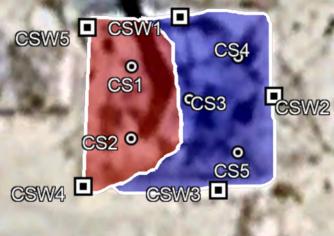






Received by OCD: 6/7/2024.9:20:50 AM Government E #/

Armstrong Enegry API:30-025-27896 Lea County, NM Confirmation Sample Map (05/08/2024)



Legend

Page 9 of 71



4' Excavation



7' Excavation

- Confirmation Bottom Sample
- Confirmation Side Wall Sample

N'	MOCD Tab	le 1 Closur	e Criteria 19	.15.29 NM	AC (Depth	to Ground	water is <50')			
		ARM	STRONG ENE	RGY GOVE	ERNMENT F	#007				
Date: 5-8-24 NM Approved Laboratory Results										
Sample ID	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg		
CS1	4'	ND	ND	ND	ND	ND	0	ND		
CS2	4'	ND	ND	ND	ND	ND	0	ND		
CS3	7'	ND	ND	ND	ND	ND	0	ND		
CS4	7'	ND	ND	ND	ND	ND	0	ND		
CS5	7'	ND	ND	ND	ND	ND	0	ND		
CSW1	0-7'	ND	ND	ND	ND	ND	0	ND		
CSW2	0-7'	ND	ND	ND	ND	ND	0	ND		
CSW3	0-7'	ND	ND	ND	ND	ND	0	ND		
CSW4	0-4'	ND	ND	ND	ND	ND	0	ND		
CSW5	0-4'	ND	ND	ND	ND	ND	0	ND		



Appendix A

Water Surveys:

OSE

USGS

Surface Water Map



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

(R=POD has been replaced, O=orphaned

O=orphaned, C=the file is

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

closed) (quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD	
C1-	

		Sub-		Q	Q	Q								V	Vater
POD Number	Code	basin	County	64	16	4	Sec	Tws	Rng	X	Y	DistanceDep	thWellDep	thWater C	olumn
<u>CP 00683 POD1</u>		CP	LE	3	3	4	25	19S	34E	639530	3610685*	1355	120	28	92
<u>L 08941</u>		L	LE	2	3	3	19	19S	35E	640510	3612523	1411	600	286	314
<u>CP 01672 POD1</u>		CP	LE	1	3	1	36	19S	34E	638736	3610009	2042	100		
<u>L 08234 S</u>		L	LE	4	4	1	18	19S	35E	640871	3614751*	3220	106	60	46
<u>L 08234 S2</u>		L	LE			3	17	19S	35E	642192	3614259*	3750	126	80	46
<u>L 09569</u>		L	LE		4	3	17	19S	35E	642394	3614063*	3803	80	30	50
L 15106 POD3		L	LE	2	1	2	32	19S	35E	642875	3610512	3965	55	28	27

Average Depth to Water:

85 feet

Minimum Depth:

28 feet

Maximum Depth:

286 feet

Record Count: 7

UTMNAD83 Radius Search (in meters):

Easting (X): 639198.91

Northing (Y): 3611999.13

Radius: 4000

*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.

5/2/24 8:51 AM

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)

Q64 Q16 Q4 Sec Tws Rng

Y

POD Number CP 00683 POD1

25 19S 34E

639530 3610685*

Driller License: 46

Driller Company:

ABBOTT BROTHERS COMPANY

Driller Name:

Well Tag

MURRELL ABBOTT

Drill Start Date:

07/18/1985

Drill Finish Date:

07/20/1985

Plug Date:

Log File Date:

08/16/1985

4.00

PCW Rcv Date:

Source:

Shallow

Depth Well:

Estimated Yield: 1 GPM

Pump Type: Casing Size: **Pipe Discharge Size:**

120 feet

Depth Water:

28 feet

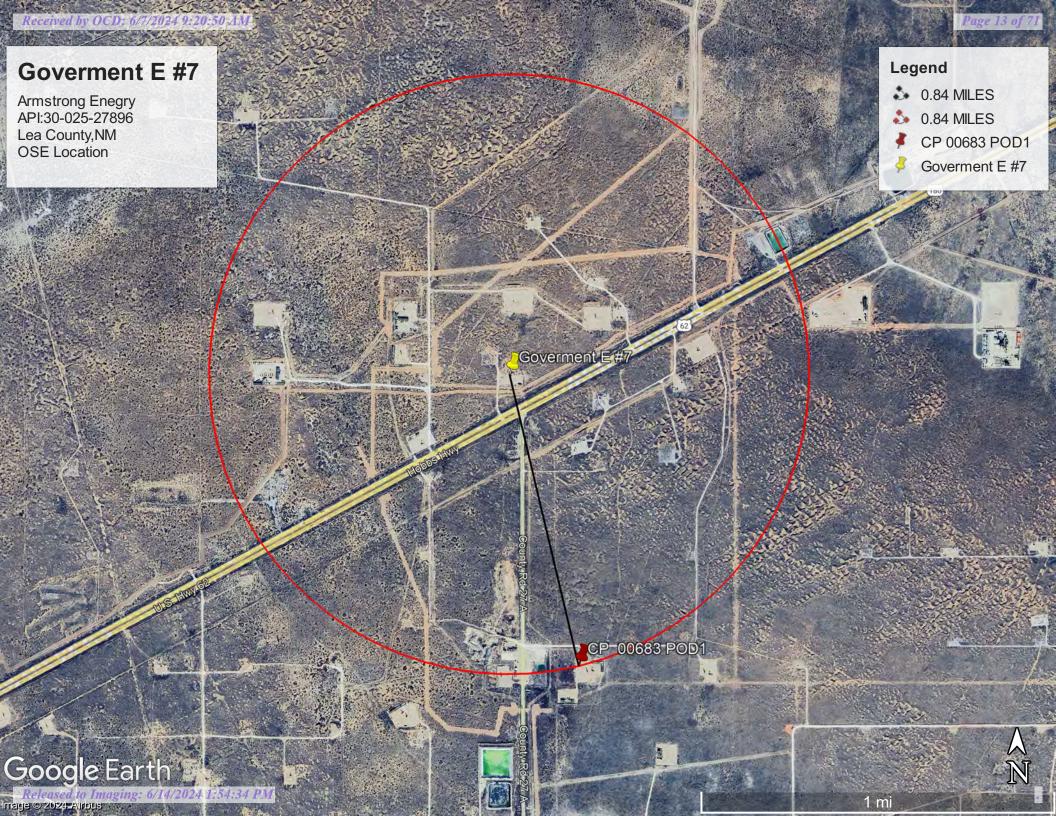
The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

5/2/24 8:52 AM

POINT OF DIVERSION SUMMARY

Received by OCD: 6/7/2024 9:20:50 AM

^{*}UTM location was derived from PLSS - see Help





USGS Home Contact USGS Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category:		Geographic Area:		
Site Information	~	United States	~	GO

Click to hideNews Bulletins

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

USGS 323855103294001 19S.35E.19.21110

Available data for this site SUMMARY OF ALL AVAILABLE DATA ➤ GO

Well Site

DESCRIPTION:

Latitude 32°38'55", Longitude 103°29'40" NAD27 Lea County, New Mexico , Hydrologic Unit 13060011

Well depth: not determined.

Land surface altitude: 3,841 feet above NAVD88.

Well completed in "High Plains aquifer" (N100HGHPLN) national aquifer.

Well completed in "Alluvium, Bolson Deposits and Other Surface Deposits" (110AVMB) local aquifer

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1961-03-08	1971-01-27	3
Revisions	Unavailable (site:0) (timese	eries:0)

OPERATION:

Record for this site is maintained by the USGS New Mexico Water Science Center Email questions about this site to New Mexico Water Science Center Water-Data Inquiries

Questions or Comments

Automated retrievals

<u>Help</u>

Data Tips

Explanation of terms

Subscribe for system changes

News

Accessibility

FOIA

Privacy

Policies and Notices

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

Title: NWIS Site Information for USA: Site Inventory

URL: https://waterdata.usgs.gov/nwis/inventory?agency_code=USGS&site_no=323855103294001

Page Contact Information: New Mexico Water Data Support Team

Page Last Modified: 2024-05-02 10:40:09 EDT

0.31 0.28 vaww01



USGS Home Contact USGS Search USGS

National Water Information System: Web Interface

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

Click to hideNews Bulletins

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

Groundwater levels for the Nation

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

site no list =

• 323855103294001

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 323855103294001 19S.35E.19.21110

Available data for this site Groundwater: Field measurements • GO

Lea County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°38'55", Longitude 103°29'40" NAD27

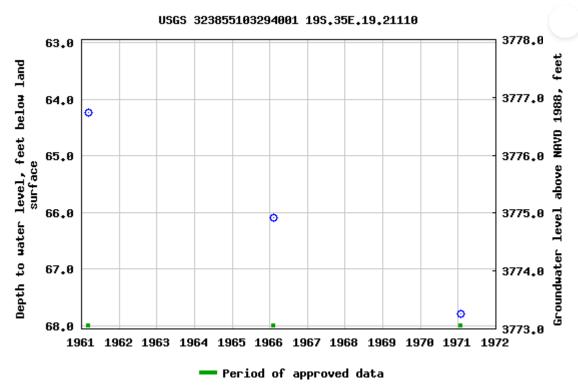
Land-surface elevation 3,841 feet above NAVD88

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

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

Output formats

Table of data	
Tab-separated data	
Graph of data	
Reselect period	



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

Questions or Comments
Automated retrievals
Help
Data Tips
Explanation of terms
Subscribe for system changes
News

Accessibility FOIA Privacy

Policies and Notices

<u>U.S. Department of the Interior</u> | <u>U.S. Geological Survey</u> **Title: Groundwater for USA: Water Levels**

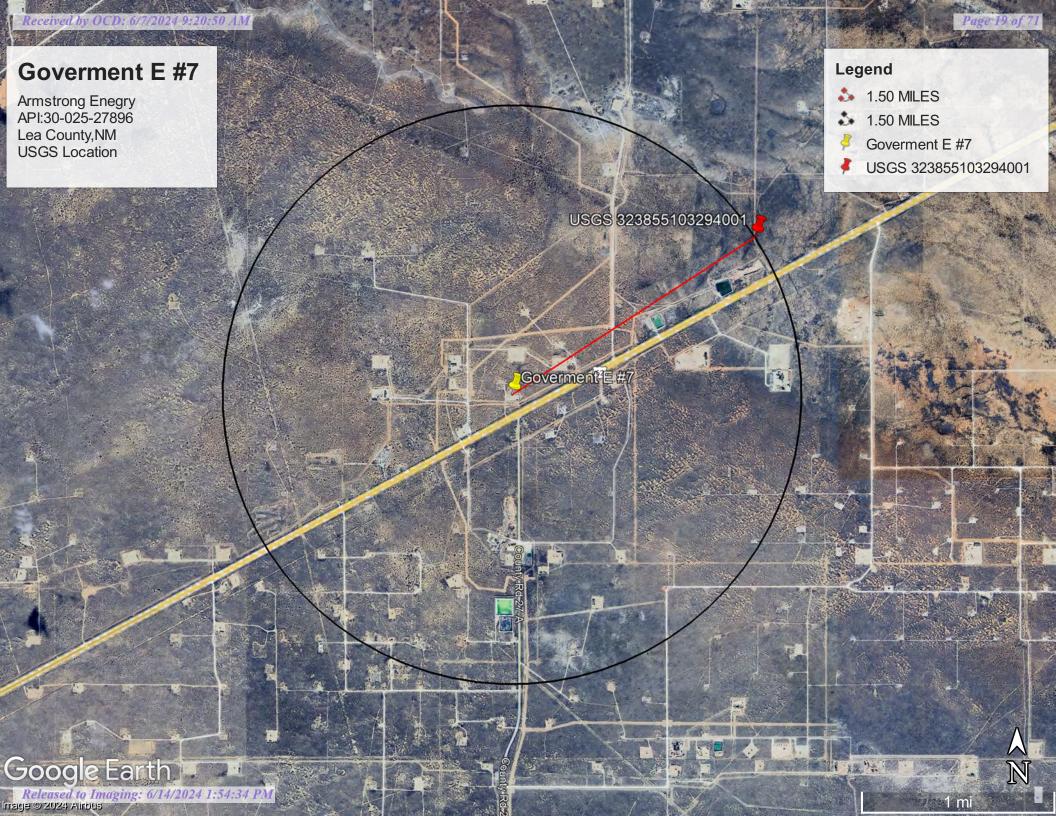
URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

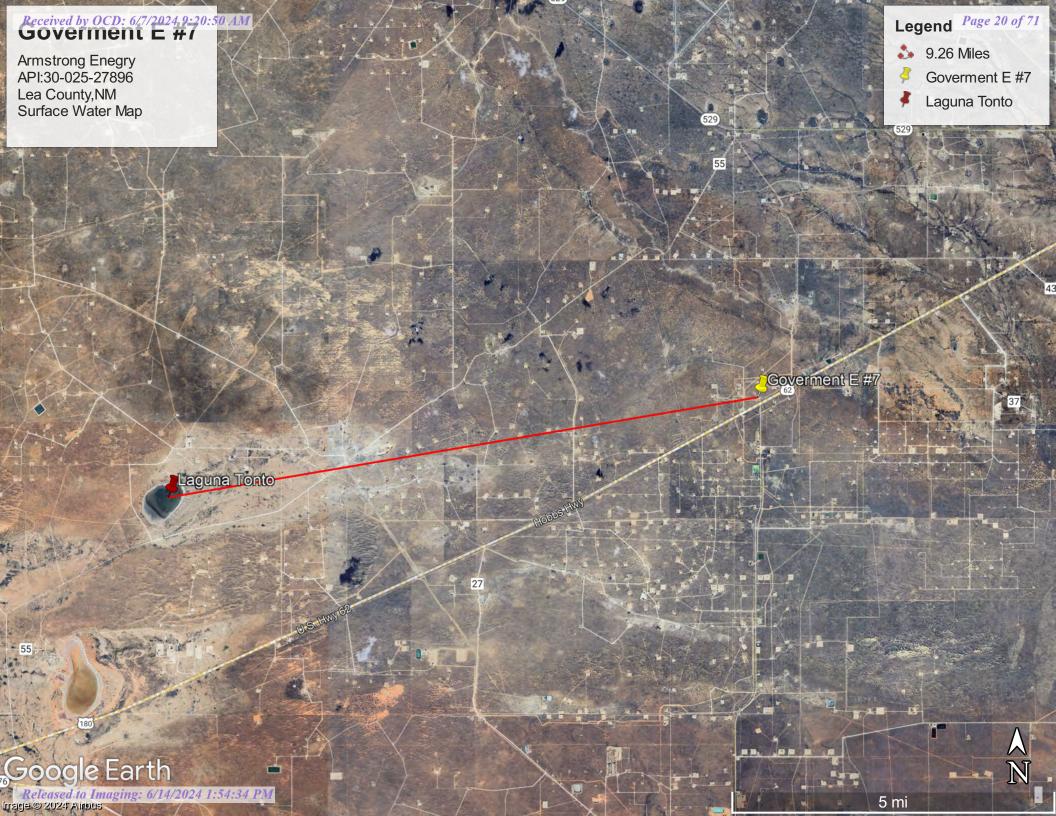
Page Contact Information: <u>USGS Water Data Support Team</u>

Page Last Modified: 2024-05-02 10:58:07 EDT

0.61 0.49 nadww02









Appendix B

Soil Survey & Geological Data FEMA Flood Map Wetlands Map



Soil Map—Lea County, New Mexico (GOVERNMENT E #007)

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



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

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
КМ	Kermit soils and Dune land, 0 to 12 percent slopes	4.7	24.7%
PU	Pyote and Maljamar fine sands	13.4	70.6%
PY	Pyote soils and Dune land	0.9	4.8%
Totals for Area of Interest	,	19.0	100.0%

Lea County, New Mexico

PU—Pyote and Maljamar fine sands

Map Unit Setting

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

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

Frost-free period: 190 to 205 days

Farmland classification: Not prime farmland

Map Unit Composition

Pyote and similar soils: 46 percent Maljamar and similar soils: 44 percent

Minor components: 10 percent

Estimates are based on observations, descriptions, and transects of

the mapunit.

Description of Pyote

Setting

Landform: Plains

Landform position (three-dimensional): Rise

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

Parent material: Sandy eolian deposits derived from sedimentary

rock

Typical profile

A - 0 to 30 inches: fine sand

Bt - 30 to 60 inches: fine sandy loam

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained Runoff class: Negligible

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

(2.00 to 6.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 5 percent

Gypsum, maximum content: 1 percent

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

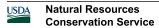
mmhos/cm)

Sodium adsorption ratio, maximum: 2.0

Available water supply, 0 to 60 inches: Low (about 5.1 inches)

Interpretive groups

Land capability classification (irrigated): 6e



Land capability classification (nonirrigated): 7s

Hydrologic Soil Group: A

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

Description of Maljamar

Setting

Landform: Plains

Landform position (three-dimensional): Rise

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

Parent material: Sandy eolian deposits derived from sedimentary

rock

Typical profile

A - 0 to 24 inches: fine sand

Bt - 24 to 50 inches: sandy clay loam
Bkm - 50 to 60 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: 40 to 60 inches to petrocalcic

Drainage class: Well drained Runoff class: Very low

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: 5 percent

Gypsum, maximum content: 1 percent

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

mmhos/cm)

Sodium adsorption ratio, maximum: 2.0

Available water supply, 0 to 60 inches: Low (about 5.6 inches)

Interpretive groups

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

Hydrologic Soil Group: B

Ecological site: R070BD003NM - Loamy Sand

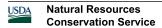
Hydric soil rating: No

Minor Components

Kermit

Percent of map unit: 10 percent

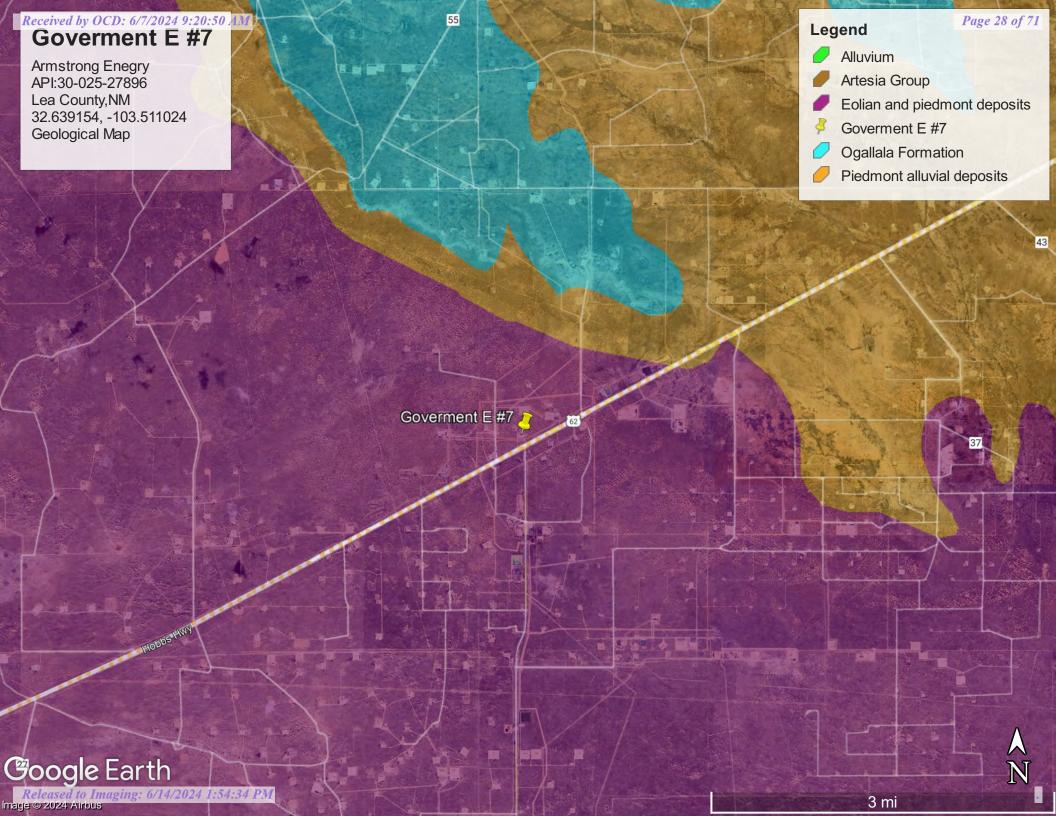
Ecological site: R070BC022NM - Sandhills



Hydric soil rating: No

Data Source Information

Soil Survey Area: Lea County, New Mexico Survey Area Data: Version 20, Sep 6, 2023



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

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

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

Eolian and piedmont deposits

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

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

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

Interlayered eolian sands and piedmont-slope deposits along the eastern flank of the Pecos River valley, primarily between Roswell and Carlsbad. Typically capped by thin eolian deposits.

State	New Mexico (/geology/state/state.php?state=NM)
Name	Eolian and piedmont deposits
Geologic age	Holocene to middle Pleistocene
Lithologic constituents	Major Unconsolidated (Eolian) Interlayered eolian sands and piedmont-slope deposits
References	New Mexico Bureau of Geology and Mineral Resources, 2003, Geologic Map of New Mexico, scale 1:500,000 (includes some new polygons, faults, and attributes not in NM001 - heads up digitizing by JHorton).
NGMDB product	NGMDB product page for 22974 (https://ngmdb.usgs.gov/Prodesc/proddesc_22974.htm)

Received by OCD: 6/7/2024 9:20:50 AM

Counties

Chaves (/geology/state/fips-unit.php?code=f35005) - DeBaca (/geology/state/fips-unit.php?code=f35011) - Eddy (/geology/state/fips-unit.php?code=f35015) - Lea (/geology/state/fips-unit.php?code=f35025) - Roosevelt (/geology/state/fips-unit.php?code=f35041)

DOI Privacy Policy (https://www.doi.gov/privacy) | Legal (https://www.usgs.gov/laws/policies_notices.html) | Accessibility (https://www2.usgs.gov/laws/accessibility.html) | Site Map (https://www.usgs.gov/sitemap.html) | Contact USGS (https://answers.usgs.gov/)

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

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

2,000

250

500

1,000

1,500

Legend

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

HAZARD AREAS Regulatory Floodway 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drain areas of less than one square mile Zontax

> **Future Conditions 1% Annual** Chance Flood Hazard Zone X

OTHER AREAS OF FLOOD HAZARD

Area with Reduced Flood Risk due to Levee. See Notes. Zone X Area with Flood Risk due to Levee Zone

Area of Undetermined Flood Hazard Zone D

Without Base Flood Elevation (BFE) With BFE or Depth Zone AE, AO, AH, VE, AF

NO SCREEN Area of Minimal Flood Hazard Zone X Effective LOMRs

- - - Channel, Culvert, or Storm Sewer

20.2 Cross Sections with 1% Annual Chance 17.5 Water Surface Elevation **Coastal Transect**

Base Flood Elevation Line (BFE) Limit of Study **Jurisdiction Boundary**

-- -- Coastal Transect Baseline OTHER **Profile Baseline FEATURES** Hydrographic Feature

Digital Data Available

No Digital Data Available

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 5/2/2024 at 11:53 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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

Basemap Imagery Source: USGS National Map 2023

POUL AVERAGE SHEETS

U.S. Fish and Wildlife Service

National Wetlands Inventory

GOVERNMENT E #007



May 2, 2024

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Freshwater Pond



Other

Riverine



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



Appendix C

48-Hour Notification

SIGN-IN HELP

Searches **Operator Data Hearing Fee Application**

OCD Permitting

Operator Data

Action Search Results

Action Status Item Details

[NOTIFY] Notification Of Sampling (C-141N) Application

Submission Information

Submission ID:

341086

Districts:

Hobbs

Operator:

[1092] ARMSTRONG ENERGY CORP

Counties:

Lea

Description:

ARMSTRONG ENERGY CORP [1092]

, Government E #007

, nAPP2410959069

Status:

APPROVED

Status Date:

05/06/2024

References (2):

30-025-27896, nAPP2410959069

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)

nAPP2410959069

Incident Name

NAPP2410959069 GOVERNMENT E #007 @ 30-025-27896

Incident Type

Oil Release

Incident Status

Initial C-141 Approved

Incident Well

[30-025-27896] GOVERNMENT E #007

Location of Release Source

Site Name

Government E #007

Date Release Discovered

04/17/2024

Surface Owner

Federal

Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet

1,106

What is the estimated number of samples that will be gathered

Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of

05/08/2024

19.15.29.12 NMAC

Time sampling will commence

11:00 AM

Warning: Notification can not be less than two business days prior to conducting final sampling.

Please provide any information necessary for observers to contact samplers

Sebastian Orozco 619-721-4813 cell

Please provide any information necessary for navigation to sampling site

The Government E #007 is located approximately 23 miles west of Hobbs, NM. This spill site is in Unit C, Sect

19S, Range 34E, Latitude 32.6368332, Longitude -103.5160294, Lea County, NM.

SIGN-IN HELP

		Searches	Operator Data	Hearing Fee Application
Comments				
No comments found for	or this submission.			
Conditions				
Summary:	jtew (5/6/2024), Failure to notify the OCD of sampling events including any changes in da remediation closure samples not being accepted.	ate/time per the requin	ements of 19.15.29.12.D.(I).(a) NMAC, may result in the
Reasons				
reasons				
No reasons found for	this submission.			
Go Back				
	New Mexico Energy, Minerals and Natural Resources Departmen			

20 South St. Francis Drive | Santa Fe, NM 87505 | P: (505) 476-3220 | F: (505) 476-3220

EMNRD Home OCD Main Page OCD Rules Help



Appendix D

Photographic Documentation



SITE PHOTOGRAPHS PIMA ENVIORNMENTAL

Government E #007

Initial Release:





P

Excavation:











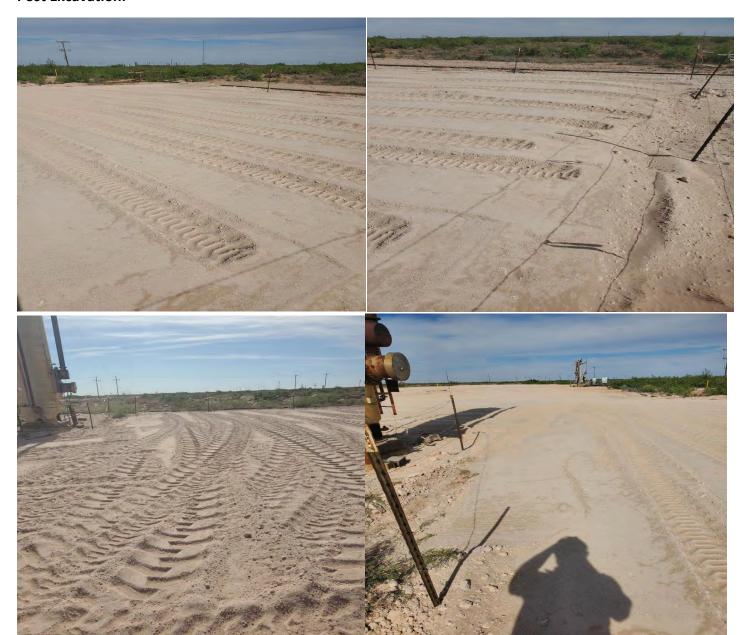








Post Excavation:









Appendix E

Laboratory Reports

Report to:
Gio Gomez



5796 U.S. Hwy 64 Farmington, NM 87401

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





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pima Environmental Services-Carlsbad

Project Name: Government E #007

Work Order: E405160

Job Number: 22093-0001

Received: 5/13/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 5/20/24

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

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

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

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

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

Date Reported: 5/20/24

Gio Gomez PO Box 247 Plains, TX 79355-0247

Project Name: Government E #007

Workorder: E405160

Date Received: 5/13/2024 6:15:00AM

Gio Gomez,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/13/2024 6:15:00AM, under the Project Name: Government E #007.

The analytical test results summarized in this report with the Project Name: Government E #007 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881

Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

rainaschwanz@envirotech-inc.com

Alexa Michaels

Sample Custody Officer Office: 505-632-1881

labadmin@envirotech-inc.com

Field Offices:

Southern New Mexico Area

Lynn Jarboe

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

Cell: 505-320-4759

ljarboe@envirotech-inc.com

Michelle Golzales

Client Representative
Office: 505-421-LABS(5227)

Cell: 505-947-8222

mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
CS1	5
CS2	6
CS3	7
CS4	8
CS5	9
CSW1	10
CSW2	11
CSW3	12
CSW4	13
QC Summary Data	14
QC - Volatile Organic Compounds by EPA 8260B	14
QC - Nonhalogenated Organics by EPA 8015D - GRO	15
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	16
QC - Anions by EPA 300.0/9056A	17
Definitions and Notes	18
Chain of Custody etc.	19

Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	Government E #007	Donoutoda
PO Box 247	Project Number:	22093-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Gio Gomez	05/20/24 15:01

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CS1	E405160-01A	Soil	05/08/24	05/13/24	Glass Jar, 2 oz.
CS2	E405160-02A	Soil	05/08/24	05/13/24	Glass Jar, 2 oz.
CS3	E405160-03A	Soil	05/08/24	05/13/24	Glass Jar, 2 oz.
CS4	E405160-04A	Soil	05/08/24	05/13/24	Glass Jar, 2 oz.
CS5	E405160-05A	Soil	05/08/24	05/13/24	Glass Jar, 2 oz.
CSW1	E405160-06A	Soil	05/08/24	05/13/24	Glass Jar, 2 oz.
CSW2	E405160-07A	Soil	05/08/24	05/13/24	Glass Jar, 2 oz.
CSW3	E405160-08A	Soil	05/08/24	05/13/24	Glass Jar, 2 oz.
CSW4	E405160-09A	Soil	05/08/24	05/13/24	Glass Jar, 2 oz.

Pima Environmental Services-Carlsbad	Project Name:	Government E #007	
PO Box 247	Project Number:	22093-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Gio Gomez	5/20/2024 3:01:29PM

CS1 E405160-01

		E403100-01					
Analyte	Result	Reporting Limit	Dilu	ıtion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	EG		Batch: 2420040
Benzene	ND	0.0250	1	1	05/14/24	05/18/24	
Ethylbenzene	ND	0.0250	1	1	05/14/24	05/18/24	
Toluene	ND	0.0250	1	1	05/14/24	05/18/24	
o-Xylene	ND	0.0250	1	1	05/14/24	05/18/24	
p,m-Xylene	ND	0.0500	1	1	05/14/24	05/18/24	
Total Xylenes	ND	0.0250	1	1	05/14/24	05/18/24	
Surrogate: Bromofluorobenzene		110 %	70-130		05/14/24	05/18/24	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130		05/14/24	05/18/24	
Surrogate: Toluene-d8		109 %	70-130		05/14/24	05/18/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	EG		Batch: 2420040
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	05/14/24	05/18/24	
Surrogate: Bromofluorobenzene		110 %	70-130		05/14/24	05/18/24	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130		05/14/24	05/18/24	
Surrogate: Toluene-d8		109 %	70-130		05/14/24	05/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	KM		Batch: 2420140
Diesel Range Organics (C10-C28)	ND	25.0	1	1	05/16/24	05/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	1	05/16/24	05/19/24	
Surrogate: n-Nonane		96.5 %	50-200		05/16/24	05/19/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	IY		Batch: 2420163



Pima Environmental Services-Carlsbad	Project Name:	Government E #007	
PO Box 247	Project Number:	22093-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Gio Gomez	5/20/2024 3:01:29PM

CS2

		Reporting					
Analyte	Result	Limit	Dilut	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	1	Analyst: E	EG		Batch: 2420040
Benzene	ND	0.0250	1		05/14/24	05/18/24	
Ethylbenzene	ND	0.0250	1		05/14/24	05/18/24	
Toluene	ND	0.0250	1		05/14/24	05/18/24	
o-Xylene	ND	0.0250	1		05/14/24	05/18/24	
p,m-Xylene	ND	0.0500	1		05/14/24	05/18/24	
Total Xylenes	ND	0.0250	1		05/14/24	05/18/24	
Surrogate: Bromofluorobenzene		109 %	70-130		05/14/24	05/18/24	
Surrogate: 1,2-Dichloroethane-d4		97.5 %	70-130		05/14/24	05/18/24	
Surrogate: Toluene-d8		108 %	70-130		05/14/24	05/18/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	1	Analyst: E	EG		Batch: 2420040
Gasoline Range Organics (C6-C10)	ND	20.0	1		05/14/24	05/18/24	
Surrogate: Bromofluorobenzene		109 %	70-130		05/14/24	05/18/24	
Surrogate: 1,2-Dichloroethane-d4		97.5 %	70-130		05/14/24	05/18/24	
Surrogate: Toluene-d8		108 %	70-130		05/14/24	05/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	1	Analyst: K	ζM		Batch: 2420140
Diesel Range Organics (C10-C28)	ND	25.0	1		05/16/24	05/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1		05/16/24	05/19/24	
Surrogate: n-Nonane		95.6 %	50-200		05/16/24	05/19/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	1	Analyst: I	Y		Batch: 2420163
11110119 8 7 12111 0 0 0 10 7 7 0 0 0 1 1							



Pima Environmental Services-Carlsbad	Project Name:	Government E #007	
PO Box 247	Project Number:	22093-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Gio Gomez	5/20/2024 3:01:29PM

CS3

		Reporting					
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	1	Analyst: E	G		Batch: 2420040
Benzene	ND	0.0250	1		05/14/24	05/18/24	
Ethylbenzene	ND	0.0250	1		05/14/24	05/18/24	
Toluene	ND	0.0250	1		05/14/24	05/18/24	
o-Xylene	ND	0.0250	1		05/14/24	05/18/24	
p,m-Xylene	ND	0.0500	1		05/14/24	05/18/24	
Total Xylenes	ND	0.0250	1		05/14/24	05/18/24	
Surrogate: Bromofluorobenzene		110 %	70-130		05/14/24	05/18/24	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130		05/14/24	05/18/24	
Surrogate: Toluene-d8		108 %	70-130		05/14/24	05/18/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	1	Analyst: E	G		Batch: 2420040
Gasoline Range Organics (C6-C10)	ND	20.0	1		05/14/24	05/18/24	
Surrogate: Bromofluorobenzene		110 %	70-130		05/14/24	05/18/24	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130		05/14/24	05/18/24	
Surrogate: Toluene-d8		108 %	70-130		05/14/24	05/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	1	Analyst: K	ΣM		Batch: 2420140
Diesel Range Organics (C10-C28)	ND	25.0	1		05/16/24	05/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1		05/16/24	05/19/24	
Surrogate: n-Nonane		94.1 %	50-200		05/16/24	05/19/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	1	Analyst: Γ	Y		Batch: 2420163
Allons by ETA 500.0/7030A							

Pima Environmental Services-Carlsbad	Project Name:	Government E #007	
PO Box 247	Project Number:	22093-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Gio Gomez	5/20/2024 3:01:29PM

CS4

		Reporting					
Analyte	Result	Limit	Di	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: EG		Batch: 2420040
Benzene	ND	0.0250		1	05/14/24	05/18/24	
Ethylbenzene	ND	0.0250		1	05/14/24	05/18/24	
Toluene	ND	0.0250		1	05/14/24	05/18/24	
o-Xylene	ND	0.0250		1	05/14/24	05/18/24	
p,m-Xylene	ND	0.0500		1	05/14/24	05/18/24	
Total Xylenes	ND	0.0250		1	05/14/24	05/18/24	
Surrogate: Bromofluorobenzene		111 %	70-130		05/14/24	05/18/24	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		05/14/24	05/18/24	
Surrogate: Toluene-d8		108 %	70-130		05/14/24	05/18/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: EG		Batch: 2420040
Gasoline Range Organics (C6-C10)	ND	20.0		1	05/14/24	05/18/24	
Surrogate: Bromofluorobenzene		111 %	70-130		05/14/24	05/18/24	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		05/14/24	05/18/24	
Surrogate: Toluene-d8		108 %	70-130		05/14/24	05/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: KM		Batch: 2420140
Diesel Range Organics (C10-C28)	ND	25.0		1	05/16/24	05/19/24	
Oil Range Organics (C28-C36)	ND	50.0		1	05/16/24	05/19/24	
Surrogate: n-Nonane		93.6 %	50-200		05/16/24	05/19/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: IY		Batch: 2420163
	ND	20.0		1	05/17/24	05/18/24	

Pima Environmental Services-Carlsbad	Project Name:	Government E #007	
PO Box 247	Project Number:	22093-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Gio Gomez	5/20/2024 3:01:29PM

CS5

		Reporting					
Analyte	Result	Limit	Di	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: EG		Batch: 2420040
Benzene	ND	0.0250		1	05/14/24	05/18/24	
Ethylbenzene	ND	0.0250		1	05/14/24	05/18/24	
Toluene	ND	0.0250		1	05/14/24	05/18/24	
o-Xylene	ND	0.0250		1	05/14/24	05/18/24	
p,m-Xylene	ND	0.0500		1	05/14/24	05/18/24	
Total Xylenes	ND	0.0250		1	05/14/24	05/18/24	
Surrogate: Bromofluorobenzene		106 %	70-130		05/14/24	05/18/24	
Surrogate: 1,2-Dichloroethane-d4		99.1 %	70-130		05/14/24	05/18/24	
Surrogate: Toluene-d8		109 %	70-130		05/14/24	05/18/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: EG		Batch: 2420040
Gasoline Range Organics (C6-C10)	ND	20.0		1	05/14/24	05/18/24	
Surrogate: Bromofluorobenzene		106 %	70-130		05/14/24	05/18/24	
Surrogate: 1,2-Dichloroethane-d4		99.1 %	70-130		05/14/24	05/18/24	
Surrogate: Toluene-d8		109 %	70-130		05/14/24	05/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: KM		Batch: 2420140
Diesel Range Organics (C10-C28)	ND	25.0		1	05/16/24	05/19/24	
Oil Range Organics (C28-C36)	ND	50.0		1	05/16/24	05/19/24	
Surrogate: n-Nonane	·	95.7 %	50-200		05/16/24	05/19/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: IY		Batch: 2420163
		20.0			05/17/24	05/18/24	

Pima Environmental Services-Carlsbad	Project Name:	Government E #007	
PO Box 247	Project Number:	22093-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Gio Gomez	5/20/2024 3:01:29PM

CSW1

		Reporting					
Analyte	Result	Limit	Dilut	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: EC	3		Batch: 2420040
Benzene	ND	0.0250	1		05/14/24	05/18/24	
Ethylbenzene	ND	0.0250	1		05/14/24	05/18/24	
Toluene	ND	0.0250	1		05/14/24	05/18/24	
o-Xylene	ND	0.0250	1		05/14/24	05/18/24	
p,m-Xylene	ND	0.0500	1		05/14/24	05/18/24	
Total Xylenes	ND	0.0250	1		05/14/24	05/18/24	
Surrogate: Bromofluorobenzene		107 %	70-130		05/14/24	05/18/24	
Surrogate: 1,2-Dichloroethane-d4		96.8 %	70-130		05/14/24	05/18/24	
Surrogate: Toluene-d8		109 %	70-130		05/14/24	05/18/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	I	Analyst: E0	3		Batch: 2420040
Gasoline Range Organics (C6-C10)	ND	20.0	1		05/14/24	05/18/24	
Surrogate: Bromofluorobenzene		107 %	70-130		05/14/24	05/18/24	
Surrogate: 1,2-Dichloroethane-d4		96.8 %	70-130		05/14/24	05/18/24	
Surrogate: Toluene-d8		109 %	70-130		05/14/24	05/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: Kl	M		Batch: 2420140
Diesel Range Organics (C10-C28)	ND	25.0	1		05/16/24	05/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1		05/16/24	05/19/24	
Surrogate: n-Nonane		94.5 %	50-200		05/16/24	05/19/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: IY	•		Batch: 2420163



Pima Environmental Services-Carlsbad	Project Name:	Government E #007	
PO Box 247	Project Number:	22093-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Gio Gomez	5/20/2024 3:01:29PM

CSW2

		Reporting					
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	EG		Batch: 2420040
Benzene	ND	0.0250	1		05/14/24	05/18/24	
Ethylbenzene	ND	0.0250	1		05/14/24	05/18/24	
Toluene	ND	0.0250	1		05/14/24	05/18/24	
o-Xylene	ND	0.0250	1		05/14/24	05/18/24	
p,m-Xylene	ND	0.0500	1		05/14/24	05/18/24	
Total Xylenes	ND	0.0250	1	l	05/14/24	05/18/24	
Surrogate: Bromofluorobenzene		108 %	70-130		05/14/24	05/18/24	
Surrogate: 1,2-Dichloroethane-d4		95.2 %	70-130		05/14/24	05/18/24	
Surrogate: Toluene-d8		110 %	70-130		05/14/24	05/18/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	-	Analyst:	EG		Batch: 2420040
Gasoline Range Organics (C6-C10)	ND	20.0	1	l	05/14/24	05/18/24	
Surrogate: Bromofluorobenzene		108 %	70-130		05/14/24	05/18/24	
Surrogate: 1,2-Dichloroethane-d4		95.2 %	70-130		05/14/24	05/18/24	
Surrogate: Toluene-d8		110 %	70-130		05/14/24	05/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	KM		Batch: 2420140
Diesel Range Organics (C10-C28)	ND	25.0	1		05/16/24	05/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	Į.	05/16/24	05/19/24	
Surrogate: n-Nonane		94.6 %	50-200		05/16/24	05/19/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	IY		Batch: 2420163



Pima Environmental Services-Carlsbad	Project Name:	Government E #007	
PO Box 247	Project Number:	22093-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Gio Gomez	5/20/2024 3:01:29PM

CSW3

		Reporting					
Analyte	Result	Limit	Dilu	ıtion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	: EG		Batch: 2420040
Benzene	ND	0.0250	1	1	05/14/24	05/18/24	
Ethylbenzene	ND	0.0250	1	1	05/14/24	05/18/24	
Toluene	ND	0.0250	1	1	05/14/24	05/18/24	
o-Xylene	ND	0.0250	1	1	05/14/24	05/18/24	
p,m-Xylene	ND	0.0500	1	1	05/14/24	05/18/24	
Total Xylenes	ND	0.0250	1	1	05/14/24	05/18/24	
Surrogate: Bromofluorobenzene		109 %	70-130		05/14/24	05/18/24	
Surrogate: 1,2-Dichloroethane-d4		94.6 %	70-130		05/14/24	05/18/24	
Surrogate: Toluene-d8		110 %	70-130		05/14/24	05/18/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	: EG		Batch: 2420040
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	05/14/24	05/18/24	
Surrogate: Bromofluorobenzene		109 %	70-130		05/14/24	05/18/24	
Surrogate: 1,2-Dichloroethane-d4		94.6 %	70-130		05/14/24	05/18/24	
Surrogate: Toluene-d8		110 %	70-130		05/14/24	05/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	: KM		Batch: 2420140
Diesel Range Organics (C10-C28)	ND	25.0	1	1	05/16/24	05/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	1	05/16/24	05/19/24	
Surrogate: n-Nonane		95.0 %	50-200		05/16/24	05/19/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	: IY		Batch: 2420163



Pima Environmental Services-Carlsbad	Project Name:	Government E #007	
PO Box 247	Project Number:	22093-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Gio Gomez	5/20/2024 3:01:29PM

CSW4

		Reporting					
Analyte	Result	Limit	Dilut	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	I	Analyst: 1	EG		Batch: 2420040
Benzene	ND	0.0250	1		05/14/24	05/18/24	
Ethylbenzene	ND	0.0250	1		05/14/24	05/18/24	
Toluene	ND	0.0250	1		05/14/24	05/18/24	
o-Xylene	ND	0.0250	1		05/14/24	05/18/24	
p,m-Xylene	ND	0.0500	1		05/14/24	05/18/24	
Total Xylenes	ND	0.0250	1		05/14/24	05/18/24	
Surrogate: Bromofluorobenzene		111 %	70-130		05/14/24	05/18/24	
Surrogate: 1,2-Dichloroethane-d4		98.1 %	70-130		05/14/24	05/18/24	
Surrogate: Toluene-d8		108 %	70-130		05/14/24	05/18/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	1	Analyst: 1	EG		Batch: 2420040
Gasoline Range Organics (C6-C10)	ND	20.0	1		05/14/24	05/18/24	
Surrogate: Bromofluorobenzene		111 %	70-130		05/14/24	05/18/24	
Surrogate: 1,2-Dichloroethane-d4		98.1 %	70-130		05/14/24	05/18/24	
Surrogate: Toluene-d8		108 %	70-130		05/14/24	05/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	1	Analyst: l	KM		Batch: 2420140
Diesel Range Organics (C10-C28)	ND	25.0	1		05/16/24	05/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1		05/16/24	05/19/24	
Surrogate: n-Nonane		94.8 %	50-200		05/16/24	05/19/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	1	Analyst: 1	IY		Batch: 2420163
Allions by ETA 300:0/7030A							



QC Summary Data

Government E #007 Pima Environmental Services-Carlsbad Project Name: Reported: PO Box 247 Project Number: 22093-0001 Plains TX, 79355-0247 Project Manager: Gio Gomez 5/20/2024 3:01:29PM **Volatile Organic Compounds by EPA 8260B** Analyst: EG Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % Notes Blank (2420040-BLK1) Prepared: 05/14/24 Analyzed: 05/18/24 ND 0.0250 ND 0.0250 Ethylbenzene Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 ND 0.0250 Total Xylenes Surrogate: Bromofluorobenzene 0.549 0.500 110 70-130 Surrogate: 1,2-Dichloroethane-d4 0.480 0.500 95.9 70-130 0.500 109 70-130 Surrogate: Toluene-d8 0.544 LCS (2420040-BS1) Prepared: 05/14/24 Analyzed: 05/18/24 2.47 0.0250 2.50 98.7 70-130 Benzene 2.50 105 70-130 2.63 Ethylbenzene 0.0250 2.55 0.0250 2.50 102 70-130 2.73 70-130 0.0250 2.50 109 o-Xylene 5.52 5.00 110 70-130 p,m-Xylene 0.0500 8.25 0.0250 7.50 110 70-130 Total Xylenes Surrogate: Bromofluorobenzene 0.527 0.500 105 70-130 0.500 98.0 70-130 Surrogate: 1,2-Dichloroethane-d4 0.490 70-130 Surrogate: Toluene-d8 0.500 0.534 Matrix Spike (2420040-MS1) Source: E405160-04 Prepared: 05/14/24 Analyzed: 05/18/24 48-131 2.41 0.0250 2.50 ND ND 45-135 Ethylbenzene 2.59 0.0250 2.50 104 ND 100 48-130 Toluene 2.50 0.0250 2.50 2.65 0.0250 2.50 ND 106 43-135 o-Xylene 5.00 ND 107 43-135 p,m-Xylene 5.35 0.0500 Total Xylenes 8.00 0.0250 7.50 ND 107 43-135

0.500

0.500

0.500

2.50

2.50

2.50

2.50

5.00

7.50

0.500

0.500

0.500

0.0250

0.0250

0.0250

0.0250

0.0500

0.0250

104

97.3

101

105

110

111

111

103

95.2

106

Source: E405160-04

ND

ND

ND

ND

ND

ND

70-130

70-130

70-130

48-131

45-135

48-130

43-135

43-135

43-135

70-130

70-130

70-130

4.64

4.25

4.65

3.60

3.86

3.77

0		
	envirotech Inc.	

Prepared: 05/14/24 Analyzed: 05/18/24

23

27

24

27

27

27

Surrogate: Bromofluorobenzene

Surrogate: Toluene-d8

Ethylbenzene

Toluene

o-Xylene

p,m-Xylene

Total Xylenes

Surrogate: Toluene-d8

Surrogate: 1,2-Dichloroethane-d4

Surrogate: Bromofluorobenzene

Surrogate: 1,2-Dichloroethane-d4

Matrix Spike Dup (2420040-MSD1)

0.522

0.487

0.530

2.53

2.70

2.62

2.74

5.56

8.30

0.517

0.476

0.532

Analyst: EG

QC Summary Data

Government E #007 Pima Environmental Services-Carlsbad Project Name: Reported: PO Box 247 Project Number: 22093-0001 Plains TX, 79355-0247 Project Manager: Gio Gomez 5/20/2024 3:01:29PM

Nonhalogenated Or	ganics by	EPA 8015D -	- GRO
-------------------	-----------	-------------	-------

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

	Result	Limit	Level	Result	Rec	Limits	RPD	Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2420040-BLK1)							Prepared: 0:	5/14/24 Anal	yzed: 05/18/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.549		0.500		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.480		0.500		95.9	70-130			
Surrogate: Toluene-d8	0.544		0.500		109	70-130			
LCS (2420040-BS2)							Prepared: 0:	5/14/24 Anal	yzed: 05/18/24
Gasoline Range Organics (C6-C10)	53.5	20.0	50.0		107	70-130			
Surrogate: Bromofluorobenzene	0.562		0.500		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.472		0.500		94.3	70-130			
Surrogate: Toluene-d8	0.544		0.500		109	70-130			
Matrix Spike (2420040-MS2)				Source:	E405160-	04	Prepared: 0:	5/14/24 Anal	yzed: 05/18/24
Gasoline Range Organics (C6-C10)	48.0	20.0	50.0	ND	95.9	70-130			
Surrogate: Bromofluorobenzene	0.555		0.500		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.473		0.500		94.5	70-130			
Surrogate: Toluene-d8	0.536		0.500		107	70-130			
Matrix Spike Dup (2420040-MSD2)				Source:	E405160-	04	Prepared: 0:	5/14/24 Anal	yzed: 05/18/24
Gasoline Range Organics (C6-C10)	43.8	20.0	50.0	ND	87.6	70-130	9.04	20	-
Surrogate: Bromofluorobenzene	0.556		0.500		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.476		0.500		95.1	70-130			
Surrogate: Toluene-d8	0.540		0.500		108	70-130			



QC Summary Data

Pima Environmental Services-CarlsbadProject Name:Government E #007Reported:PO Box 247Project Number:22093-0001Plains TX, 79355-0247Project Manager:Gio Gomez5/20/20243:01:29PM

1 Idilis 17X, 77333-0247		1 Toject Wianage	i. Gi	o Gomez					720/2021 3:01:27111
Nonhalogenated Organics by EPA 8015D - DRO/ORO Analyst: KM									
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2420140-BLK1)							Prepared: 0	5/16/24 Ana	alyzed: 05/19/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.4		50.0		96.8	50-200			
LCS (2420140-BS1)							Prepared: 0	5/16/24 Ana	alyzed: 05/19/24
Diesel Range Organics (C10-C28)	254	25.0	250		101	38-132			
Surrogate: n-Nonane	47.7		50.0		95.3	50-200			
LCS Dup (2420140-BSD1)							Prepared: 0	5/16/24 Ana	alyzed: 05/19/24
Diesel Range Organics (C10-C28)	267	25.0	250		107	38-132	5.00	20	
Surrogate: n-Nonane	48.4		50.0		96.9	50-200			

Analyte

QC Summary Data

		<u>*</u>	
Pima Environmental Services-Carlsbad	Project Name:	Government E #007	Reported:
PO Box 247	Project Number:	22093-0001	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	5/20/2024 3:01:29PM

Anions by EPA 300.0/9056A							Analyst: IY		
Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit		

	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2420163-BLK1)							Prepared: 0:	5/17/24 Ana	lyzed: 05/18/24
Chloride	ND	20.0							
LCS (2420163-BS1)							Prepared: 0	5/17/24 Ana	lyzed: 05/18/24
Chloride	257	20.0	250		103	90-110			
LCS Dup (2420163-BSD1)							Prepared: 0	5/17/24 Ana	lyzed: 05/18/24
Chloride	256	20.0	250		103	90-110	0.271	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:	Government E #007	
-	PO Box 247	Project Number:	22093-0001	Reported:
	Plains TX, 79355-0247	Project Manager:	Gio Gomez	05/20/24 15:01

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

\approx
6
=
20
=
6
2
(***
0
-
3
2
200
v9.
Print.
00
-
6
~
-
4
13
6
1
4
· O
4
11
\sim
4
P
<u> </u>

Chain of Custody Client: Pima Environmental Services BIII To Project: GAVERAMENTE #007 Hrmstrong bnergy TAT **EPA Program** Attention: Prolect Manager: Glo Gomez 1D 2D 3D Standard Address: CWA SDWA Address: 5614 N. Lovington Hwy. City, State, Zip City, State, Zip. Hobbs, NM, 88240 **Analysis and Method** Phone: RCRA Phone: 806-782-1151 Email: Email: gio@pimaoil.com GRO/DRO by 8015 State Report due by: Pima Project # Chloride 300.0 VOC by 8260 NM CO UT AZ TX BTEX by 8021 M Metals 6010 Time Date Matrix Sample ID BGDOC 'Sampled Sampled Remarks 1:00 2 3 5 0 :0 8 CA Additional Instructions: i, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling & sample location, Samples requiring thermal preservation must be received on ke the day they are sampled or received date or time of collection is considered fraud and may be grounds for legal action. Sampled by: packed in Ice at an avg temp above 0 but less than 6 $^\circ$ cos subsequent days. Relinquished by: (Signature) Received by: (Signature) 5-10.24 lewine At me Relinguished by: (Signature) Received on ice: Received by: (Signature) 5.10.W Relinquished by: (Signature Received by: (Signature) 5.10.24 Sample Matrix: 5 - Soil, 5d - Solid, 5g - Sludge, A - Aqueous, O - Other AVG Temp °C Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous subject will be returned to client or disposed of at the client expense. The report for the analysis of the above Carainer Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA samples is applicable only to those samples received by the laboratory with this COC. The liability of the laborator mited to the amount paid for on the report.



Received by OCD: 6/7/2024 9:20:50 AM

Printed: 5/13/2024 12:12:17PM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Pima Environmental Services-Carlsbad	Date Received:	05/13/24 06			Work Order ID:	E405160
Phone:	(575) 631-6977	Date Logged In:	05/10/24 14			Logged In By:	Angelina Pineda
Email:	gio@pimaoil.com	Due Date:	05/17/24 1	7:00 (4 day TAT)			
Chain of	Custody (COC)						
1. Does th	e sample ID match the COC?		Yes				
2. Does th	e number of samples per sampling site location ma	tch the COC	Yes				
3. Were sa	imples dropped off by client or carrier?		Yes	Carrier: C	<u>Courier</u>		
4. Was the	COC complete, i.e., signatures, dates/times, reques	sted analyses?	No				
5. Were al	I samples received within holding time? Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssi		Yes			<u>Comments</u>	s/Resolution
Sample T	urn Around Time (TAT)						
6. Did the	COC indicate standard TAT, or Expedited TAT?		Yes		No. of con	tainers is not	documented by
Sample C	<u>ooler</u>				client		
7. Was a s	ample cooler received?		Yes				
8. If yes, v	was cooler received in good condition?		Yes				
9. Was the	e sample(s) received intact, i.e., not broken?		Yes				
10. Were	custody/security seals present?		No				
	were custody/security seals intact?		NA				
12. Was the	e sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples ar minutes of sampling risible ice, record the temperature. Actual sample	e received w/i 15	Yes				
	•	temperature. 4 v	<u>C</u>				
Sample C	ontainer jueous VOC samples present?		No				
	OC samples collected in VOA Vials?		No NA				
	head space less than 6-8 mm (pea sized or less)?		NA NA				
			NA NA				
	trip blank (TB) included for VOC analyses?	9					
	on-VOC samples collected in the correct containers' appropriate volume/weight or number of sample contain		Yes Yes				
	• • • • • • • • • • • • • • • • • • • •	ners conected?	108				
Field Lab	rield sample labels filled out with the minimum info	ormation:					
	ample ID?	mation.	Yes				
	ate/Time Collected?		Yes				
Co	ollectors name?		Yes				
Sample P	<u>reservation</u>						
21. Does t	the COC or field labels indicate the samples were p	reserved?	No				
	mple(s) correctly preserved?		NA				
24. Is lab	filteration required and/or requested for dissolved n	netals?	No				
Multipha	se Sample Matrix						
26. Does t	he sample have more than one phase, i.e., multipha	se?	No				
27. If yes,	does the COC specify which phase(s) is to be analy	yzed?	NA				
Subcontra	act Laboratory						
	mples required to get sent to a subcontract laborato	rv?	No				
	subcontract laboratory specified by the client and it	•		Subcontract Lab	o: NA		
Chent in	struction						

Date

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III 1000 Rio Brazos Rd., Aztec, NM 87410

Phone:(505) 334-6178 Fax:(505) 334-6170 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 351961

QUESTIONS

Operator:	OGRID:			
ARMSTRONG ENERGY CORP	1092			
P.O. Box 1973	Action Number:			
Roswell, NM 88202	351961			
	Action Type:			
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)			

QUESTIONS

Prerequisites					
Incident ID (n#)	nAPP2410959069				
Incident Name	NAPP2410959069 GOVERNMENT E #007 @ 30-025-27896				
Incident Type	Oil Release				
Incident Status	Remediation Closure Report Received				
Incident Well	[30-025-27896] GOVERNMENT E #007				

Location of Release Source					
Please answer all the questions in this group.					
Site Name	GOVERNMENT E #007				
Date Release Discovered	04/17/2024				
Surface Owner	Federal				

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Equipment Failure Flow Line - Production Crude Oil Released: 165 BBL Recovered: 100 BBL Lost: 65 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)	Not answered.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III 1000 Rio Brazos Rd., Aztec, NM 87410

Phone:(505) 334-6178 Fax:(505) 334-6170

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 351961

Phone: (505) 476-3470 Fax: (505) 476-3462	•
QUEST	IONS (continued)
Operator: ARMSTRONG ENERGY CORP P.O. Box 1973 Roswell, NM 88202	OGRID: 1092 Action Number: 351961 Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)
QUESTIONS	
Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.	e. gas only) are to be submitted on the C-129 form.
Initial Response	
The responsible party must undertake the following actions immediately unless they could create a s	safety hazard that would result in injury.
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.
	iation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of evaluation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for releate OCD does not relieve the operator of liability should their operations have failed to	knowledge and understand that pursuant to OCD rules and regulations all operators are required asses which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: Jeffery Tew Title: Operations Engineer

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720 District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410

Phone:(505) 334-6178 Fax:(505) 334-6170 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS, Page 3

Action 351961

QUESTIONS (continued)

Operator:	OGRID:
ARMSTRONG ENERGY CORP	1092
P.O. Box 1973	Action Number:
Roswell, NM 88202	351961
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

Remediation Plan		
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
Requesting a remediation	plan approval with this submission	Yes
Attach a comprehensive report de	monstrating the lateral and vertical extents of soil contamination	on associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.
Have the lateral and vertical	al extents of contamination been fully delineated	Yes
Was this release entirely o	ontained within a lined containment area	No
Soil Contamination Sampling	g: (Provide the highest observable value for each, in m	nilligrams per kilograms.)
Chloride	(EPA 300.0 or SM4500 CI B)	0
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	0
GRO+DRO	(EPA SW-846 Method 8015M)	0
BTEX	(EPA SW-846 Method 8021B or 8260B)	0
Benzene	(EPA SW-846 Method 8021B or 8260B)	0
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMA which includes the anticipated timelines for beginning and completing the remediation.		ed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,
On what estimated date w	ill the remediation commence	04/18/2024
On what date will (or did) t	he final sampling or liner inspection occur	05/08/2024
On what date will (or was)	the remediation complete(d)	05/01/2024
What is the estimated surfa	ace area (in square feet) that will be reclaimed	0
What is the estimated volu	me (in cubic yards) that will be reclaimed	0
What is the estimated surfa	ace area (in square feet) that will be remediated	1106
What is the estimated volu	me (in cubic yards) that will be remediated	940
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.

District I

1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

Phone:(575) 748-1283 Fax:(575) 748-9720 <u>District III</u>
1000 Rio Brazos Rd., Aztec, NM 87410

Phone: (505) 334-6178 Fax: (505) 334-6170 <u>District IV</u>

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3470 Fax: (505) 476-3462 State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS, Page 4

Action 351961

QUESTIONS (continued)

Operator:	OGRID:
ARMSTRONG ENERGY CORP	1092
P.O. Box 1973	Action Number:
Roswell, NM 88202	351961
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	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.

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

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

I hereby agree and sign off to the above statement

I hereby agree and sign off to the above statement

I hereby agree and sign off to the above statement

Title: Operations Engineer
Email: Jtew@aecnm.com
Date: 06/07/2024

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

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS, Page 5

Action 351961

QUESTIONS (continued)

Operator:	OGRID:
ARMSTRONG ENERGY CORP	1092
P.O. Box 1973	Action Number:
Roswell, NM 88202	351961
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

District I

1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 **District III** 1000 Rio Brazos Rd., Aztec, NM 87410

Phone:(505) 334-6178 Fax:(505) 334-6170 **District IV**1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS, Page 6

Action 351961

QUESTIONS (continued)

Operator:	OGRID:
ARMSTRONG ENERGY CORP	1092
P.O. Box 1973	Action Number:
Roswell, NM 88202	351961
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	341086
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/08/2024
What was the (estimated) number of samples that were to be gathered	9
What was the sampling surface area in square feet	1106

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	1106
What was the total volume (cubic yards) remediated	940
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	0
What was the total volume (in cubic yards) reclaimed	0
Summarize any additional remediation activities not included by answers (above)	From April 18 to May 1, Armstrong Energy conducted an urgent excavation of the affected area within the unlined containment to prevent crude oil from seeping further into the soil. They used a track hoe and belly dumps to remove the contaminated material from the site. The excavation covered approximately 1,106 square feet and reached depths of 7 feet and 4 feet below ground surface (bgs). In total, 940 cubic yards of contaminated material were removed and transported to an NMOCD-approved landfill for disposal.

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

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

Name: Jeffery Tew
Title: Operations Engineer
Email: Jtew@aecnm.com
Date: 06/07/2024

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS, Page 7

Action 351961

QUESTIONS (continued)

Operator:	OGRID:
ARMSTRONG ENERGY CORP	1092
P.O. Box 1973	Action Number:
Roswell, NM 88202	351961
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 351961

CONDITIONS

Operator:	OGRID:
ARMSTRONG ENERGY CORP	1092
P.O. Box 1973	Action Number:
Roswell, NM 88202	351961
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	This Remediation Closure Report is approved. Areas reasonably needed for production or subsequent drilling operations will need to be reclaimed and revegetated as soon as they are no longer reasonably needed. A report for reclamation and revegetation will need to be submitted and approved prior to this incident receiving the final status of "Restoration Complete".	6/14/2024
scott.rodgers	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	6/14/2024