

September 28th, 2022

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

Re: Site Assessment, Remediation, and Closure Report Mobile Lea State #8 Injection Pump API No. N/A GPS: Latitude 32.59976 Longitude -103.53254 UL "K", Sec. 02, T20S, R34E Lea County, NM NMOCD Ref. No. NPAC0619942318

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 that occurred at the Mobile Lea State #8 Injection Pump. The initial C-141 was submitted on July 14th, 2006 (Appendix C). This incident was assigned Incident ID NPAC0619942318, by the New Mexico Oil Conservation Division (NMOCD).

Site Characterization

The Mobile Lea State #8 Injection Pump is located approximately twenty-five (25) miles southwest of Hobbs, NM. This spill site is in Unit K, Section 02, Township 20S, Range 34E, Latitude 32.59976, Longitude -103.53254, Lea County, NM. Figure 1 references a Location map.

Per the New Mexico Bureau of Geology and Mineral Resources, the geology is in the Eolian and piedmont deposits (Holocene and middle Pleistocene). The soil in this area is made up of Pyote and Maljamar fine sands, 0 to 3 percent slopes according to the United States Department of Agriculture Natural Resources Conservation Service soil survey (Appendix B). The drainage courses in this area are well-drained. There is a low potential for karst geology to be present around the Armstrong Energy Corporation (Figure 3).

According to the New Mexico Office of the State Engineer, depth to the nearest groundwater in this area is 64 feet below grade surface (BGS). According to the United States Geological Survey (USGS), the nearest groundwater is 56.39 feet BGS. The closest waterway is a unnamed Playa located approximately 8.11 miles to the northwest of this location. See Appendix A for referenced water surveys.

Table 1 NMAC and Closure Criteria 19.15.29								
Depth to Groundwater		Cons	tituent & Limits					
(Appendix A)	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

NPAC0619942318: On July 13th, 2006, an injection pump went down, and supply water filled tank and ran it over. Approximately 10 barrels of crude oil and produced water was released, 5 barrels were recovered, all remained on pad.

Site Assessment and Soil Sampling Results

On September 12th, 2022, Pima Environmental Services mobilized personnel to the site to conduct delineation activities. Pima sampled the area between the point of release and the southernmost extent of the engineered pad. Laboratory results of this sampling event can be found in the following data table.

	9-12-22 Soil Sample Results									
NN	NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50')									
	ARMSTRONG ENERGY - MOBIL LEA #8 INJ PMP									
Sample Date	: 9/12/22			NM Appr	oved Labor	atory Resu	ults			
Completion ID	Depth	BTEX	BTEX Benzene GRO DRO MRO Total TPH Cl							
Sample ID	(BGS)	mg/kg	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg							
S-1	6"	ND	ND	ND	ND	ND	0	56		
S-2	6"	ND	ND	ND	ND	ND	0	60.5		
S-3	6"	ND	ND	ND	ND	ND	0	48.1		
SW 1	6"	ND	ND	ND	ND	ND	0	ND		
SW 2	6"	ND	ND	ND	ND	ND	0	62.2		
SW 3	6"	ND	ND	ND	ND	ND	0	ND		

Nd: Non-Detect

Remediation Activities

Due to analytical levels falling below NMOCD closure criteria, no further immediate action is required. Pima environmental will address any superficial staining surrounding the production storage tanks.

Complete laboratory reports can be found in Appendix E.

Closure Request

After careful review, Pima requests that this incident, NPAC0619942318, 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 Orozco

Sebastian Orozco Environmental Project Manager Pima Environmental Services, LLC

Attachments

Figures:

- 1- Location Map
- 2- Topographic Map
- 3- Karst Map
- 4- Site Map

Appendices:

Appendix A – Referenced Water Surveys

- Appendix B Soil Survey and Geological Data
- Appendix C C-141 Form
- Appendix D Photographic Documentation
- Appendix E Laboratory Reports



Figures:

1-Location Map

2-Topographic Map

3-Karst Map

4-Site Map







Mobile Lea State #8 INJ. PMP

Armstrong Energy Corp. N: NPAC061994231 K-02-20S-34E ea County, NM 32.59976,-103.53254

/20/2023 7:51:33 AM

Mobile Lea State #3 INJ PUMP

·S2

SW2

'SW1 'S1

S3

SW3

Google Earth



Appendix A

Water Surveys: OSE USGS



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 been rep O=orpha C=the fil closed)	laced, ned,			· *				/ 2=NE est to lar	3=SW 4=SI gest) (N	E) JAD83 UTM in m	eters)	(In feet)	
	encoda)	POD			. 1					<i>c</i>		,	X	,	
POD Number	Code	Sub-	County	-	Q	-		Twe	Dng	х	Y	DistanceDept	hWallDanth		ater
<u>CP 01672 POD1</u>	Coue	CP	LE	1				19S	34E	638736	3610009	2376	100		
<u>CP 00656 POD1</u>		СР	LE	4	4	4	04	20S	34E	635342	3607391* 🌍	2412	225		
<u>CP 00655 POD1</u>		СР	LE		3	1	14	20S	34E	637294	3605108* 🌍	2790	210		
<u>L 04157</u>		L	LE		3	3	06	20S	35E	640483	3607561* 🌍	2793	70	64	6
<u>CP 00654 POD1</u>		СР	LE		4	4	12	20S	34E	640103	3605947* 🌍	3070	60		
<u>CP 00683 POD1</u>		СР	LE	3	3	4	25	19S	34E	639530	3610685* 🌍	3356	120	28	92
<u>CP 00800 POD1</u>		СР	LE	2	2	2	22	20S	34E	637007	3603994* 🌍	3936	220		
											Averag	ge Depth to Water	:	46 feet	
												Minimum Dept	h:	28 feet	
												Maximum Dept	1:	64 feet	
Record Count: 7															
UTMNAD83 Radius	s Search (in	1 meters	<u>):</u>												
Easting (X): 637	706.81		North	ning	; (Y):	3607	867.35	5		Radius: 5000				
*UTM location was derived	from PLSS	- see Helj	þ												
The data is furnished by the N accuracy, completeness, reliab	MOSE/ISC	and is ac	cepted by th							derstanding t	hat the OSE/ISC ma	ike no warranties, e	xpressed or impl	ied, concernii	ng tł

9/14/22 2:43 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER



USGS Home Contact USGS Search USGS

National Water Information System: Web Interface

USGS Water Resources	Data Category:	Geographic Area:		
obdo mater Resources	Groundwater 🗸 🗸	United States	\checkmark	GO

Click to hideNews Bulletins

- Explore the NEW <u>USGS National Water Dashboard</u> interactive map to access realtime water data from over 13,500 stations nationwide.
- Attention current WaterAlert users: NextGen WaterAlert is replacing Legacy WaterAlert. You must take action before 9/30/2022 to retain your alerts. <u>Read</u> <u>more.</u>
- Full News 🔊

Groundwater levels for the Nation

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

Search Results -- 1 sites found

site_no list =

• 323536103301101

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 323536103301101 20S.35E.06.331332

Available data for this site Groundwater: Field measurements V GO Lea County, New Mexico Hydrologic Unit Code 13060011 Latitude 32°35'50", Longitude 103°30'17" NAD27 Land-surface elevation 3,678.00 feet above NGVD29 The depth of the well is 70 feet below land surface.

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

This well is completed in the Ogallala Formation (1210GLL) local aquifer.

Output formats

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



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

Questions about sites/data? Feedback on this web site Automated retrievals Help 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: 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: 2022-09-14 16:45:04 EDT 0.55 0.47 nadww02





U.S. Fish and Wildlife Service National Wetlands Inventory

Wetlands Map



Wetlands



Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Vetland

Freshwater Forested/Shrub Wetland

Freshwater Emergent Wetland

Freshwater Pond



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 Wetlands Inventory (NWI)

This page was produced by the NWI mapper



Appendix B

Soil Survey & Geological Data FEMA Flood Map

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: R042XC003NM - 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: R042XC003NM - Loamy Sand Hydric soil rating: No

Minor Components

Kermit

Percent of map unit: 10 percent *Ecological site:* R042XC022NM - Sandhills



Hydric soil rating: No

Data Source Information

Soil Survey Area: Lea County, New Mexico Survey Area Data: Version 18, Sep 10, 2021



National Flood Hazard Layer FIRMette



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOU Without Base Flood Elevation (BFE) 9 Zone A, V, A99 With BFE or Depth Zone AE, AO, AH, VE, A SPECIAL FLOOD **Regulatory Floodway** HAZARD AREAS



250

500

€03°32'16"W 32°36'14"N

1,000

1,500

2.000

Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020

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

This map complies with FEMA's standards for the use of

authoritative NFHL web services provided by FEMA. This map was exported on 9/14/2022 at 11:22 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or

This map image is void if the one or more of the following map legend, scale bar, map creation date, community identifiers, 00 FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.



Appendix C

C-141

eceived by OCD: 9/27/2022 4:46:00 PM	1				Page 20 of 4 3
<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u>	State of Energy Minerals	New Mexico and Natural Reso	ources		Form C-141 Revised October 10, 2003
1301 W. Grand Avenue, Artesia, NM 88210 <u>District III</u> 1000 Rio Brazos Road, Aztec, NM 87410 <u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505	1220 South	vation Division St. Francis Dr e, NM 87505			Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form
R	elease Notification		etive Acti	on	
		OPERATOR			al Report D Final Report
Name of Company Armstrong Energ	gy Corporation	Contact Bruce S			
		Telephone No. 50:		1.0.7.1	
Facility Name Mobil Lea State #8	water injection pump	Facility Type Wa	ter supply tan	k & Injection	
Surface Owner U.S.	Mineral Owner	U.S.	<u></u>	Lease 1	No. NM-086
	LOCATION	N OF RELEAS	SE		
Unit Letter Section Township Ran K 2 20S 34E			from the Ea 980	st/West Line West	County Lea
/00 Latitude	32.59976 N L	ongitude103.5	53254 W		I
/00 Lanuae		OF RELEASE			
Type of Release Produced War	ter & Oil	Volume of Releas	e 5 to 10 bbl		Recovered 5 bbls.
Source of Release Ran Tank Ove	er	Date and Hour of Od AM	ccurrence 7-13-0	6 Date and F	Iour of Discovery 7-13-06 9:00 AM
Was Immediate Notice Given?		If YES, To Whom	1?		
X Yes By Whom? Bruce Stubbs	No Not Required	Gary wink	12.06 Magan		
Was a Watercourse Reached?		If YES, Volume In	mpacting the V	/atercourse	212-
Yes	X No	N/A		910111	213141510
If a Watercourse was Impacted, Describe Fu	lly.*	,		////	II.
N/A [`]				CONTONS STATES	2 13 14 15 16 2 13 14 15 16 10 10 10 AM
Describe Cause of Problem and Remedial Ad Injection Pump went down and supply water				•	
Describe Area Affected and Cleanup Action affected. Used vacuum truck to remove fluid		ank and a low area b	ehind the batte	ry. An Area ar	pproximately 6 ft. x 50 ft. was
I hereby certify that the information given all regulations all operators are required to repo public health or the environment. The accep should their operations have failed to adequa or the environment. In addition, NMOCD ac federal, state, or local laws and/or regulation	rt and/or file certain release no stance of a C-141 report by the ately investigate and remediate cceptance of a C-141 report do	otifications and perfe e NMOCD marked a e contamination that oes not relieve the op	orm corrective is "Final Repor pose a threat to perator of respo	actions for rel t" does not rel ground water onsibility for c	eases which may endanger ieve the operator of liability r, surface water, human health ompliance with any other
Signature: Ball	(DIVISION
Printed Name: Bruce Stubbs		Approved by Distric	EN UNZO	ther Sh	bless
Title: Engineer		Approval Date: 6	-27.07	Expiration	Date: 9-27-87
E-mail Address: pecos@lookingglass.net		Conditions of Appro			Attached
Date: 7-14-06 Phone: Attach Additional Sheets If Necessary	505-625-2222	SUBINITIA	e of rin	SAC 6-14	-1
Date: 7-14-06 Phone: Attach Additional Sheets If Necessary Aculity - SPAC Michaelt - AF Application F	0619942210 DACOG199423 DACOG199423	18 2957		þ	2P#-961

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Oil Conservation Division

Incident ID	NAPC0619942318
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible party consider this a major release?
Yes No	
If YES, was immediate no	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?

Initial Response

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

The source of the release has been stopped.

The impacted area has been secured to protect human health and the environment.

Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

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

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

Printed Name:	Title:
Signature:	Date:
email:	Telephone:
OCD Only	
Received by:	Date:

Received by OCD: 9/27/2022 4:46:00 PM Form C-121 State of New Mexico

Oil Conservation Division

	Page 22 of 4
Incident ID	NAPC0619942318
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u><50</u> (ft bgs)
Did this release impact groundwater or surface water?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🛛 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🛛 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🛛 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🛛 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🛛 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🛛 No
Did the release impact areas not on an exploration, development, production, or storage site?	🗌 Yes 🔀 No

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

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

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

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

eceived by OCD:	9/27/2022 4:46:00 PM State of New	w Mexico		r	Page 23 of
				Incident ID	NAPC0619942318
age 4	Oil Conservati	ion Division		District RP	
				Facility ID	
				Application ID	
public health or the failed to adequatel addition, OCD acc and/or regulations. Printed Name: Signature:	erators are required to report and/or file c e environment. The acceptance of a C-1 ly investigate and remediate contamination ceptance of a C-141 report does not reliev Jeffery Tew Deffery Tew @aecnm.com	41 report by the OCD d on that pose a threat to g ve the operator of respo Title: Dat	loes not relieve the groundwater, surfa nsibility for comp Operations Er	e operator of liability sh ace water, human health liance with any other fe ngineer	ould their operations have or the environment. In
OCD Only Received by:	Jocelyn Harimon		Date: 09/2	27/2022	

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Oil Conservation Division

Incident ID	NAPC0619942318
District RP	
Facility ID	
Application ID	

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Closure

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

Closure Report Attachment Checklist: Each of the following items must be included in the closure report. A scaled site and sampling diagram as described in 19.15.29.11 NMAC Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection) Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling) Description of remediation activities I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete. Printed Name: Jeffery Tew Title: Operations Engineer
 Signature:
 Jeffery Teuv Date:
 9/27/2022

 email:
 jtew@aecnm.com
 Telephone:
 575-420-7600
 OCD Only Date: 09/27/2022 Jocelyn Harimon Received by: _____ Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations. Juttan Hall Date: 2/20/2023 Closure Approved by: Title: Environmental Specialist Printed Name: Brittany Hall



Appendix D

Photographic Documentation



SITE PHOTOGRAPHS PIMA ENVIORNMENTAL

Mobile Lea State #8 Injection Pump





Appendix E

Laboratory Reports



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:

Mobile Lea #8

Work Order: E209057

Job Number: 22093-0001

Received: 9/14/2022

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 9/20/22

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise. Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc. Envirotech Inc, holds the Utah TNI certification NM00979 for data reported. Envirotech Inc, holds the Texas TNI certification T104704557 for data reported. Envirotech Inc, holds the NM SDWA certification for data reported. (Lab #NM00979) Date Reported: 9/20/22

Tom Bynum PO Box 247 Plains, TX 79355-0247

Project Name: Mobile Lea #8 Workorder: E209057 Date Received: 9/14/2022 11:00:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/14/2022 11:00:00AM, under the Project Name: Mobile Lea #8.

The analytical test results summarized in this report with the Project Name: Mobile Lea #8 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

Field Offices:

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Received by OCD: 9/27/2022 4:46:00) <i>PM</i>				Pag	ge 31 of 45
		Sample Sum	mary			
Pima Environmental Services-Carlsbad		Project Name:	Mobile Lea #8		Depented	7
PO Box 247		Project Number:	22093-0001		Reported:	
Plains TX, 79355-0247		Project Manager:	Tom Bynum		09/20/22 14:21	
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container	

Client Sample ID Lab Sample ID Matrix Sam	bled Received Container
S.1 E209057-01A Soil 09/1	2/22 09/14/22 Glass Jar, 4 oz.
S.2 E209057-02A Soil 09/1	2/22 09/14/22 Glass Jar, 4 oz.
S.3 E209057-03A Soil 09/1	2/22 09/14/22 Glass Jar, 4 oz.
SW1 E209057-04A Soil 09/1	2/22 09/14/22 Glass Jar, 4 oz.
SW2 E209057-05A Soil 09/1	2/22 09/14/22 Glass Jar, 4 oz.
SW3 E209057-06A Soil 09/1	2/22 09/14/22 Glass Jar, 4 oz.



envirotech Inc.

	00	ampic D	ala			
Pima Environmental Services-Carlsbad	Project Name:	Moł	oile Lea #8			
PO Box 247	Project Numbe	er: 2209	93-0001			Reported:
Plains TX, 79355-0247	Project Manag	ger: Tom	Bynum			9/20/2022 2:21:55PM
		S.1				
		E209057-01				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	Analyst: IY		Batch: 2238035
Benzene	ND	0.0250	1	09/14/22	09/14/22	
Ethylbenzene	ND	0.0250	1	09/14/22	09/14/22	
Toluene	ND	0.0250	1	09/14/22	09/14/22	
p-Xylene	ND	0.0250	1	09/14/22	09/14/22	
o,m-Xylene	ND	0.0500	1	09/14/22	09/14/22	
Total Xylenes	ND	0.0250	1	09/14/22	09/14/22	
Surrogate: 4-Bromochlorobenzene-PID		98.6 %	70-130	09/14/22	09/14/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	vst: IY		Batch: 2238035
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/14/22	09/14/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		80.9 %	70-130	09/14/22	09/14/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	yst: JL		Batch: 2238022
Diesel Range Organics (C10-C28)	ND	25.0	1	09/14/22	09/14/22	
Dil Range Organics (C28-C36)	ND	50.0	1	09/14/22	09/14/22	
Surrogate: n-Nonane		95.9 %	50-200	09/14/22	09/14/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: RAS		Batch: 2238072
Chloride	56.0	20.0	1	09/16/22	09/18/22	

Sample Data



	Sa	ample D	ata			
Pima Environmental Services-Carlsbad	Project Name:	Mot	oile Lea #8			
PO Box 247	Project Numbe	er: 2209	93-0001			Reported:
Plains TX, 79355-0247	Project Manag	er: Tom	Bynum			9/20/2022 2:21:55PM
		S.2				
	-	E209057-02				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	Analyst: IY		Batch: 2238035
Benzene	ND	0.0250	1	09/14/22	09/14/22	
Ethylbenzene	ND	0.0250	1	09/14/22	09/14/22	
Toluene	ND	0.0250	1	09/14/22	09/14/22	
p-Xylene	ND	0.0250	1	09/14/22	09/14/22	
p,m-Xylene	ND	0.0500	1	09/14/22	09/14/22	
Fotal Xylenes	ND	0.0250	1	09/14/22	09/14/22	
Surrogate: 4-Bromochlorobenzene-PID		99.4 %	70-130	09/14/22	09/14/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: IY		Batch: 2238035
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/14/22	09/14/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		82.8 %	70-130	09/14/22	09/14/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: JL		Batch: 2238022
Diesel Range Organics (C10-C28)	ND	25.0	1	09/14/22	09/14/22	
Dil Range Organics (C28-C36)	ND	50.0	1	09/14/22	09/14/22	
Surrogate: n-Nonane		87.9 %	50-200	09/14/22	09/14/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: RAS		Batch: 2238072
Chloride	60.5	20.0	1	09/16/22	09/18/22	



	Di	ample D	ata			
Pima Environmental Services-Carlsbad PO Box 247	Project Name: Project Numb		oile Lea #8 93-0001			Reported:
Plains TX, 79355-0247	Project Manag		Bynum			9/20/2022 2:21:55PM
		S.3				
		E209057-03				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
olatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	Analyst: IY		Batch: 2238035
enzene	ND	0.0250	1	09/14/22	09/14/22	
hylbenzene	ND	0.0250	1	09/14/22	09/14/22	
bluene	ND	0.0250	1	09/14/22	09/14/22	
Xylene	ND	0.0250	1	09/14/22	09/14/22	
m-Xylene	ND	0.0500	1	09/14/22	09/14/22	
otal Xylenes	ND	0.0250	1	09/14/22	09/14/22	
rrogate: 4-Bromochlorobenzene-PID		99.9 %	70-130	09/14/22	09/14/22	
onhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: IY		Batch: 2238035
asoline Range Organics (C6-C10)	ND	20.0	1	09/14/22	09/14/22	
urrogate: 1-Chloro-4-fluorobenzene-FID		81.3 %	70-130	09/14/22	09/14/22	
onhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	rst: JL		Batch: 2238022
iesel Range Organics (C10-C28)	ND	25.0	1	09/14/22	09/14/22	
il Range Organics (C28-C36)	ND	50.0	1	09/14/22	09/14/22	
nrrogate: n-Nonane		88.9 %	50-200	09/14/22	09/14/22	
nions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	rst: RAS		Batch: 2238072
hloride	48.1	20.0	1	09/16/22	09/18/22	



	S	ample D	ata				
Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Number: 220		obile Lea #8 093-0001 m Bynum				Reported: 9/20/2022 2:21:55PM
		SW1					
		E209057-04					
		Reporting					
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst:	IY		Batch: 2238035
Benzene	ND	0.0250		1	09/14/22	09/14/22	
Ethylbenzene	ND	0.0250		1	09/14/22	09/14/22	
Toluene	ND	0.0250		1	09/14/22	09/14/22	
o-Xylene	ND	0.0250		1	09/14/22	09/14/22	
o,m-Xylene	ND	0.0500		1	09/14/22	09/14/22	
Total Xylenes	ND	0.0250		1	09/14/22	09/14/22	
Surrogate: 4-Bromochlorobenzene-PID		101 %	70-130		09/14/22	09/14/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY			Batch: 2238035
Gasoline Range Organics (C6-C10)	ND	20.0		1	09/14/22	09/14/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		81.7 %	70-130		09/14/22	09/14/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	JL		Batch: 2238022
Diesel Range Organics (C10-C28)	ND	25.0		1	09/14/22	09/14/22	
Oil Range Organics (C28-C36)	ND	50.0		1	09/14/22	09/14/22	
Surrogate: n-Nonane		67.0 %	50-200		09/14/22	09/14/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	RAS		Batch: 2238072
Chloride	ND	20.0		1	09/16/22	09/18/22	

	S	ample D	ata				
Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name:Mobile Lea #8Project Number:22093-0001Project Manager:Tom Bynum					Reported: 9/20/2022 2:21:55PM	
		SW2					
		E209057-05					
		Reporting					
Analyte	Result	Limit	Dilu	ution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst:	IY		Batch: 2238035
Benzene	ND	0.0250		1	09/14/22	09/14/22	
Ethylbenzene	ND	0.0250		1	09/14/22	09/14/22	
Toluene	ND	0.0250		1	09/14/22	09/14/22	
p-Xylene	ND	0.0250		1	09/14/22	09/14/22	
p,m-Xylene	ND	0.0500		1	09/14/22	09/14/22	
Total Xylenes	ND	0.0250		1	09/14/22	09/14/22	
Surrogate: 4-Bromochlorobenzene-PID		101 %	70-130		09/14/22	09/14/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY			Batch: 2238035
Gasoline Range Organics (C6-C10)	ND	20.0		1	09/14/22	09/14/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		81.8 %	70-130		09/14/22	09/14/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	JL		Batch: 2238022
Diesel Range Organics (C10-C28)	ND	25.0		1	09/14/22	09/14/22	
Oil Range Organics (C28-C36)	ND	50.0		1	09/14/22	09/14/22	
Surrogate: n-Nonane		89.3 %	50-200		09/14/22	09/14/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	RAS		Batch: 2238072
Chloride	62.2	20.0		1	09/16/22	09/18/22	

	S	ample D	ata				
Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Numb	Project Name: Mobile Lea #8 Project Number: 22093-0001 Project Manager: Tom Bynum					Reported: 9/20/2022 2:21:55PM
		SW3					
		E209057-06					
		Reporting					
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst:	IY		Batch: 2238035
Benzene	ND	0.0250	1		09/14/22	09/14/22	
Ethylbenzene	ND	0.0250	1		09/14/22	09/14/22	
Toluene	ND	0.0250	1		09/14/22	09/14/22	
p-Xylene	ND	0.0250	1		09/14/22	09/14/22	
p,m-Xylene	ND	0.0500	1		09/14/22	09/14/22	
Total Xylenes	ND	0.0250	1		09/14/22	09/14/22	
Surrogate: 4-Bromochlorobenzene-PID		101 %	70-130		09/14/22	09/14/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY			Batch: 2238035
Gasoline Range Organics (C6-C10)	ND	20.0	1		09/14/22	09/14/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		82.1 %	70-130		09/14/22	09/14/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: .	JL		Batch: 2238022
Diesel Range Organics (C10-C28)	ND	25.0	1		09/14/22	09/14/22	
Oil Range Organics (C28-C36)	ND	50.0	1		09/14/22	09/14/22	
Surrogate: n-Nonane		92.3 %	50-200		09/14/22	09/14/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	RAS		Batch: 2238072
Chloride	ND	20.0	1		09/16/22	09/18/22	

OC Summary Data

Reporting Limit g mg/kg 0.0250 0.0250	r: 2 er: -	Mobile Lea #8 22093-0001 Tom Bynum by EPA 802 Source Result mg/kg	1B Rec %	Rec Limits %	RPD % Prepared: 0	RPD Limit %	Reported: 9/20/2022 2:21:55PM Analyst: IY Notes nalyzed: 09/14/22
Project Manage Volatile (Reporting Limit g mg/kg 0.0250 0.0250	er: Organics Spike Level	Tom Bynum by EPA 802 Source Result	Rec	Limits %	%	RPD Limit %	Analyst: IY Notes
Volatile Reporting Limit g mg/kg 0.0250 0.0250	Organics Spike Level	by EPA 802 Source Result	Rec	Limits %	%	RPD Limit %	Analyst: IY Notes
Reporting Limit g mg/kg 0.0250 0.0250	Spike Level	Source Result	Rec	Limits %	%	Limit %	Notes
lt Limit g mg/kg 0.0250 0.0250	Level	Result		Limits %	%	Limit %	
g mg/kg 0.0250 0.0250				%	%	%	
0.0250					Prepared 0	9/1 <i>4/</i> 22 A	nalwzed: 09/14/22
0.0250					r repareu. U	/ 1 T/ 44 / A	11a1yzeu. 09/14/22
0.0250							
0.0250							
0.0250							
0.0500							
0.0250							
}	8.00		98.5	70-130			
					Prepared: 0	9/14/22 Ai	nalyzed: 09/14/22
0.0250	5.00		106	70-130			
0.0250	5.00		88.6	70-130			
0.0250	5.00		93.7	70-130			
0.0250	5.00		89.7	70-130			
0.0500	10.0		89.8	70-130			
0.0250	15.0		89.7	70-130			
7	8.00		98.4	70-130			
					Prepared: 0	9/14/22 Ai	nalyzed: 09/14/22
0.0250	5.00		107	70-130	1.04	20	
0.0250	5.00		89.8	70-130	1.36	20	
0.0250	5.00		94.8	70-130	1.20	20	
0.0250	5.00		90.7	70-130	1.18	20	
0.0500	10.0		90.9	70-130	1.22	20	
0.0250	15.0		90.8	70-130	1.21	20	
	0.0250 0.0250 0.0500 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250	0.0250 0.0250 0.0500 0.0250 2	0.0250 0.0250 0.0500 0.0250 0.00 0.0250 0.00 0.0250 0.00 0.0250 0.00 0.0250 0.00 0.0250 0.00 0.0250 0.00 0.0250 0.00 0.0250 0.00 0.0250 0.00 0.0250 0.00 0.0250 0.00 0.0250 0.00 0.0250 0.00 0.0250 0.00 0.0250 0.00 0.0250 0.00 0.0250 0.00 0.0250 0.00 0.0250 0.00 0.00 0.0250 0.00 0.00 0.0250 0.00 0.	0.0250 0.0250 0.0500 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250 0.00 0.00 0.0250 0.00 0.00 0.00 0.00 0.0250 0.00 0.00 0.00 0.0250 0.00 0.00 0.00 0.00 0.00 0.00 0.0250 0.00 0.00 0.00 0.0250 0.00 0.00 0.0250 0.00 0.00 0.00 0.0250 0.00 0.00 0.00 0.0250 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0250 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0250 0.00	0.0250 0.0500 0.0250 0.00 0.0250 0.00 0.00 0.00 0.0250 0.00 0.00	0.0250 0.0500 0.0250 0.00 0.0250 0.00 0.	0.0250 0.0500 0.0250 0.00 0.0250 0.00 0.02



OC Summary Data

		QC D	uIIIIII	aly Data	L				
Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247		Project Name: Project Number: Project Manager:	2	Mobile Lea #8 22093-0001 Fom Bynum					Reported: 9/20/2022 2:21:55PM
·	No	onhalogenated C	Organics	s by EPA 801	5D - G	RO			Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2238035-BLK1)							Prepared: 09	9/14/22 Aı	nalyzed: 09/14/22
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.62		8.00		82.7	70-130			
LCS (2238035-BS2)							Prepared: 09	9/14/22 Ai	nalyzed: 09/14/22
Gasoline Range Organics (C6-C10)	50.6	20.0	50.0		101	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.82		8.00		85.2	70-130			
LCS Dup (2238035-BSD2)							Prepared: 09	9/14/22 Ai	nalyzed: 09/14/22
Gasoline Range Organics (C6-C10)	50.6	20.0	50.0		101	70-130	0.00850	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.79		8.00		84.9	70-130			



QC Summary Data

		QC D	u I I I I I I	aly Data	L				
Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247		Project Name: Project Number: Project Manager:		Mobile Lea #8 22093-0001 Tom Bynum					Reported: 9/20/2022 2:21:55PM
	Nonh	alogenated Org	anics by	y EPA 8015D	- DRO	/ORO			Analyst: JL
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2238022-BLK1)							Prepared: 0	9/14/22 A	nalyzed: 09/14/22
Diesel Range Organics (C10-C28)	ND	25.0							-
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	40.7		50.0		81.3	50-200			
LCS (2238022-BS1)							Prepared: 0	9/14/22 A	nalyzed: 09/14/22
Diesel Range Organics (C10-C28)	223	25.0	250		89.2	38-132			
Surrogate: n-Nonane	43.4		50.0		86.9	50-200			
Matrix Spike (2238022-MS1)				Source: 1	E 209051 -	03	Prepared: 0	9/14/22 A	nalyzed: 09/14/22
Diesel Range Organics (C10-C28)	237	25.0	250	ND	95.0	38-132			
Surrogate: n-Nonane	38.7		50.0		77.4	50-200			
Matrix Spike Dup (2238022-MSD1)				Source: 1	E209051-	03	Prepared: 0	9/14/22 A	nalyzed: 09/14/22
Diesel Range Organics (C10-C28)	234	25.0	250	ND	93.5	38-132	1.59	20	
Surrogate: n-Nonane	40.7		50.0		81.3	50-200			



QC Summary Data

3				D (1
				Reported: 9/20/2022 2:21:55PM
őA				Analyst: RAS
Rec	Rec Limits	RPD		Notes
		Prepared: 09	0/16/22	Analyzed: 09/18/22
		Prepared: 09	0/16/22	Analyzed: 09/18/22
104	90-110	Prepared: 00	0/16/22	Analyzed 09/18/22
103	80-120	Trepared. 05	10/22	mary200. 07/10/22
e: E209057-01		Prepared: 09	0/16/22	Analyzed: 09/18/22
98.4	80-120	3.51	20	
•	% 104 e: E209057-01 103 e: E209057-01	Rec Limits % % 104 90-110 e: E209057-01 103 80-120 e: E209057-01	Rec Rec RPD % % % % % % Prepared: 09 Prepared: 09 104 90-110 e: E209057-01 Prepared: 09 103 80-120 e: E209057-01 Prepared: 09	Rec Rec RPD RPD % % % % % % % % % % % % % % % Prepared: 09/16/22 % % 104 90-110 Prepared: 09/16/22 % e: E209057-01 Prepared: 09/16/22 % e: E209057-01 Prepared: 09/16/22 %

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

	2 • • • • • • • • • •	S 6611 64 1 1 6 6 6 6 5	
Pima Environmental Services-Carlsbad	Project Name:	Mobile Lea #8	
PO Box 247	Project Number:	22093-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	09/20/22 14:21

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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



1	- f		St to at ang	C
Page of	Standard CWA SDWA X RCRA RCRA State NM CO UT AZ TX	Remarks		SOMALIAN OIMADIL COM SOMALIAN OIMADIL COM SOMALIAN OIMADIL COM Somales requires themal preservation must be received on tex the day they are sampled or received on the text band of the stand of the sta
	TAT 20 30 21 20 21 10 20 21 10 20 21 10 20 21 10 20 21 10 20 21 10 20 21 10 20 21 10 20 21 10 20 20 21 10 20 20 20 20 20 20 20 20 20 20 20 20 20	8600C		AADII (DTM preservation must be receive up above 0 but has than 6°c. Lab Use Ority Ber glass, v - VOA ient expense. The rep
	de 300.0 S and Method			SObACHANA DIMADIL CIM Subact Surples requiring thermal preservation must be received on tex the day the sample location, pusched in text at an any terms above 0 but lass than 6 °C, on subsequent day. SobACHANA DIMADIL CIM Ronovid Roz Samples requiring thermal preservation must be received on text and the stans 6 °C, on subsequent day. SobACHANA DIMADIL CIM Ronovid Roz Time SobACHANA Lab Use Only Time Time Date Time Ro Ro Ro Ro Time Date Time Ro Ro Ro Time Time Date Time Ro Ro Ro Ro Time Date Time Ro Ro Ro Ro Time Date Time Ro Ro Ro Ro <t< td=""></t<>
	A 87260	лос рі влага расса рі		SUDACH Subach Time Time A A A A A A A A A A A A A
≽	500 PA 8075	0/080		Ple location, Ple location, Plant Restriction, Plant Restrictio
Chain of Custody	Attention: Arms Friday ENOrgy Address: City. State, Zip Phone: Email: Pima Project # 10,- 0	19 - COM	JUS	PiMA : I am aware that tampering with or intention regal action. Samplets of the same of the convect by: (Signature) C / / / Received by: (Signature) Received by: (Signature) additional of the suboratory with this COC. The fiability of the
	Prices 240	sample ID	3W 1 2 W 2 2 W 2	Additional Instructions: T NOF DI D MM I. (field sampler), attest to the validity and authemticity of this sample. I am aware date or time of collection is considered fraud and may be grounds for legal action. Relinquished by: (Signature) Date Time Imme Relinquished by: (Signature) Date Date Time Imme
	nmental Second S	Matrix Containers		DIDS: 1 re validity and au considered fraud reb) / / / / / / / / / / / / / / / / / / /
Project Information	Client: Pima Environmental Services Project: [/110]110 101 # 10 Project Manager: Tom Bynum Address: 5614 N. Lovington Hwv. City. State. Zip Hobbs, NM. 88240 Phone: 580-748-1613 Email: tom@pimaoil.com	sampled 0//2/22		Additional Instructions: 1. (field sampler), attest to the validity and authenticity of this date or time of collection is considered fraud and may be grou Relinquished by: (Signature) Relinquished by: (Signature
Project In	Client: Pima E Project: [//[//]/ Project Manage Address: 5614 City. State, Zip Phone: 580-7 Email: tom@ Report due by:	Time sampled 10:00 10:10	10:15 10:20	Additional I. (field sample date or time of Relinquished Relinquished Relinquished Sample Marrix Note: Samples is ar

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71 to 81 age9

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Client:	Pima Environmental Services-Carlsbad	Date Received:	09/14/22	11:00	Work Order ID:	E209057
Phone:	(575) 631-6977	Date Logged In:	09/13/22	16:22	Logged In By:	Caitlin Christian
Email:	tom@pimaoil.com	Due Date:	09/20/22	17:00 (4 day TAT)		
Chain o	of Custody (COC)					
1. Does	the sample ID match the COC?		Yes			
2. Does	the number of samples per sampling site location m	natch the COC	Yes			
3. Were	samples dropped off by client or carrier?		Yes	Carrier: UPS		
4. Was th	he COC complete, i.e., signatures, dates/times, requ	ested analyses?	Yes			
5. Were	all samples received within holding time? Note: Analysis, such as pH which should be conducted i.e, 15 minute hold time, are not included in this disucs		Yes		Comment	ts/Resolution
<u>Sample</u>	<u>Turn Around Time (TAT)</u>					
6. Did th	he COC indicate standard TAT, or Expedited TAT?		Yes			
Sample	Cooler					
7. Was a	a sample cooler received?		Yes			
8. If yes	, was cooler received in good condition?		Yes			
9. Was th	he sample(s) received intact, i.e., not broken?		Yes			
10. Were	e custody/security seals present?		No			
11. If ye	es, were custody/security seals intact?		NA			
12. Was t	the sample received on ice? If yes, the recorded temp is 4° Note: Thermal preservation is not required, if samples minutes of sampling		Yes			
13. If no	visible ice, record the temperature. Actual samp	le temperature: 4°	С			
	Container	<u>.</u>	<u> </u>			
	aqueous VOC samples present?		No			
	VOC samples collected in VOA Vials?		NA			
	he head space less than 6-8 mm (pea sized or less)?		NA			
	a trip blank (TB) included for VOC analyses?		NA			
	non-VOC samples collected in the correct containe	rs?	Yes			
	e appropriate volume/weight or number of sample cont		Yes			
Field La						
	e field sample labels filled out with the minimum in	formation:				
	Sample ID?		Yes			
	Date/Time Collected?		No	L		
	Collectors name?		No			
	<u>Preservation</u>	procorriad9	NT			
	s the COC or field labels indicate the samples were	preserved?	No NA			
	sample(s) correctly preserved? b filteration required and/or requested for dissolved	metals?	NA No			
	· ·		INU			
-	nase Sample Matrix	h				
	s the sample have more than one phase, i.e., multiples does the COC specify which phase(c) is to be approximately a second state of the second sta		No			
27. If ye	es, does the COC specify which phase(s) is to be and	aiyzed?	NA			
	tract Laboratory					
28. Are	samples required to get sent to a subcontract labora a subcontract laboratory specified by the client and		No NA	Subcontract Lab: na		

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



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

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

District III

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

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

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

CONDITIONS

Operator:	OGRID:	
ARMSTRONG ENERGY CORP	1092	
P.O. Box 1973	Action Number:	
Roswell, NM 88202	146673	
	Action Type:	
	[C-141] Release Corrective Action (C-141)	

CONDITIONS

Created By		Condition Date
bhall	None	2/20/2023

CONDITIONS

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Action 146673