

575-964-7740

July 21st, 2023

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

Liza Jane Federal #1 API No. 30-041-20972

GPS: Latitude 33.8552152 Longitude -103.4096054

UL "I", Sec. 19, T5S, R34E Roosevelt County, NM

NMOCD Ref. No. NAPP2307454854

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 Liza Jane Federal #1 (Liza Jane). The initial C-141 was submitted on March 27th, 2023 (Appendix C). This incident was assigned Incident ID NAPP2307454854, by the New Mexico Oil Conservation Division (NMOCD).

#### **Site Characterization**

The Liza Jane is located approximately five (5) miles west of Pep, NM. This spill site is in Unit I, Section 19, Township 5S, Range 34E, Latitude 33.8552152, Longitude -103.4096054, Roosevelt County, NM. Figure 1 references a location map.

Per the New Mexico Bureau of Geology and Mineral Resources, the geology is in the Older alluvial deposits of upland plains, piedmont areas, calcic soils, eolian cover sediments of high plains (Middle to lower Pleistocene). The soil in this area is made up of Ratliff sandy clay loam, 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 Liza Jane (Figure 3).

According to the New Mexico Office of the State Engineer, depth to the nearest groundwater in this area is 115 feet below grade surface (BGS). According to the United States Geological Survey (USGS), the nearest groundwater is 97 feet BGS. The closest waterway is an unnamed salt playa located approximately 8.43 miles to the southwest of this location. See Appendix A for referenced water surveys.

Table 1 NMAC and Closure Criteria 19.15.29										
Depth to Groundwater	Constituent & 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**

<u>NAPP2307454854</u>: On March 15th, 2023, a backpressure valve was inspected, and pieces of rubber were found within it. Packing appears to have deteriorated and sent pieces of rubber into the backpressure valve downstream, which resulted in the valve not opening properly. This likely lead to an overpressure of the stuffing box packing upstream and subsequent failure. Approximately 10 barrels of crude oil were released, 2 barrels were recovered. All fluid stayed on location.

#### **Site Assessment and Soil Sampling Results**

On March 15th, 2023, Armstrong Energy Corporation mobilized personnel to the site to assess the area. Armstrong immediately scraped up the affected area using a backhoe and transported the contaminated material to an NMOCD approved landfill for disposal. Approximately 130 cubic yards of contaminated material was removed. All supporting documentation of remedial work can be found in Appendix F.

On March 21st, 2023, Pima Environmental Services mobilized personnel to the site to conduct delineation activities. Pima sampled the area between the point of release and the extent of the engineered pad. Laboratory results of this sampling event can be found in the following data table.

Bases on analytical results, the area overlapping soil sample S2 and SW1 will be excavated to a depth of 3.5 feet. Soil sample S3 and SW2 will be excavated to a depth of 0.5 foot. Soil sample S4 and SW3 and SW4 will be excavated to a depth of 2 feet bgs. Based on our side wall samples we isolated the horizontal footprint of the remaining contamination to an area measuring approximately 45 feet by 15 feet wide. The initial side map can be found in Figure 4.

3-21-2023 Soil Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50')												
ARMSTRONG ENERGY CORPORATION - Liza Jane Federal #1												
Sample Date: 3/2	21/23	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	CI mg/kg				
	Surface	ND	ND	ND	ND	ND	0	52.2				
	1'	ND	ND	ND	ND	ND	0	41.1				
<b>S1</b>	2'	ND	ND	ND	ND	ND	25	69				
	3'	ND	ND	ND	ND	ND	25.8	103				
	4'	ND	ND	ND	ND	ND	0	ND				
	Surface	ND	ND	ND	ND	ND	0	30.8				
	1'	ND	ND	ND	ND	ND	0	ND				
S2	2'	ND	ND	ND	ND	ND	788	48.8				
	3'	ND	ND	ND	ND	ND	149.7	85.7				
	4'	ND	ND	ND	ND	ND	0	ND				
	Surface	ND	ND	ND	ND	ND	3474.89	62.2				
	1'	ND	ND	ND	ND	ND	71.2	58.1				
<b>S3</b>	2'	ND	ND	ND	ND	ND	56.4	61.6				
	3'	ND	ND	ND	ND	ND	0	125				
	4'	ND	ND	ND	ND	ND	0	ND				
	Surface	ND	ND	ND	ND	ND	1319.0475	1770				
	1'	ND	ND	ND	ND	ND	0	1920				
<b>S4</b>	2'	ND	ND	ND	ND	ND	83.9	59.6				
	3'	ND	ND	ND	ND	ND	47.2	97.6				
	4'	ND	ND	ND	ND	ND	0	ND				
SW1	6''	ND	ND	ND	ND	ND	0	ND				
SW2	6''	ND	ND	ND	ND	ND	0	ND				
SW3	6''	ND	ND	ND	ND	ND	0	ND				
SW4	6''	ND	ND	ND	ND	ND	0	ND				

Nd: Non-Detect

#### **Remediation Activities**

On April 5<sup>th</sup>, 2023, Pima mobilized personnel and equipment to conduct remedial activities. We excavated the area overlapping soil sample (S2) to a depth of 3.5 feet, measuring approximately 15 feet by 15 feet by 3.5 feet. Soil sample (S3) was excavated an additional 6 inches, measuring approximately 18 feet by 10 feet by 0.5 feet. Soil sample (S4) was excavated to a depth of one 2 feet, measuring approximately 17 feet by 14 feet by 2 feet bgs. Approximately 35 cubic yards of contaminated material were removed and transported to an NMOCD approved landfill. All supporting documentation of remedial work can be found in Appendix F.

On April 9th, 2023, after submitting the 48-hour notification (Appendix C), Pima collected 5-point composite confirmation samples. Each confirmation sample represents no more than 200 square feet of the excavated area. Confirmation sample CS1 was collected at 3.5 feet in depth, CS2 and CS3 were collected at 0.5 feet in depth, CS4 and CS5 were collected at 2 feet in depth. Side wall sample CSW1 and CSW5 were collected from surface to 2 feet in depth, CSW2 and CSW4 were collected from surface down to 0.5 feet in depth, CSW3 was collected from surface to 3.5 feet in depth. The laboratory results of this sampling event can be found in the following data table. Photographic documentation of the excavation along with the dates associated with each photograph can be found in Appendix D. A in depth confirmation map can be found in Figure 5.

4-9-23 Confirmation Soil Sample Resul	lts
---------------------------------------	-----

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50')												
	ARMSTRONG ENERGY CORPORATION - Liza Jane Federal #1											
Sample Date: 4/9	/23		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	3.5'	ND	ND	ND	ND	ND	ND	ND				
CS2	0.5'	ND	ND	ND	ND	ND	ND	ND				
CS3	0.5'	ND	ND	ND	ND	ND	ND	ND				
CS4	2'	ND	ND	ND	ND	ND	ND	ND				
CS5	2'	ND	ND	ND	ND	ND	ND	ND				
CSW1	0-2'	ND	ND	ND	ND	ND	ND	ND				
CSW2	0-0.5'	ND	ND	ND	ND	ND	ND	ND				
CSW3	0-3.5'	ND	ND	ND	ND	ND	ND	ND				
CSW4	0-0.5'	ND	ND	ND	ND	ND	ND	ND				
CSW5	0-2'	ND	ND	ND	ND	ND	ND	ND				

ND- Analyte Not Detected

Complete laboratory reports can be found in Appendix E.

#### **Closure Request**

After careful review, Pima requests that this incident, NAPP2307454854, 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
- 5- Confirmation Map

#### Appendices:

Appendix A – Referenced Water Surveys

Appendix B – Soil Survey and Geological Data

Appendix C – C-141 Form and 48-Hour Notification

Appendix D – Photographic Documentation

Appendix E – Laboratory Reports

Appendix F – Disposal Documentation



## Figures:

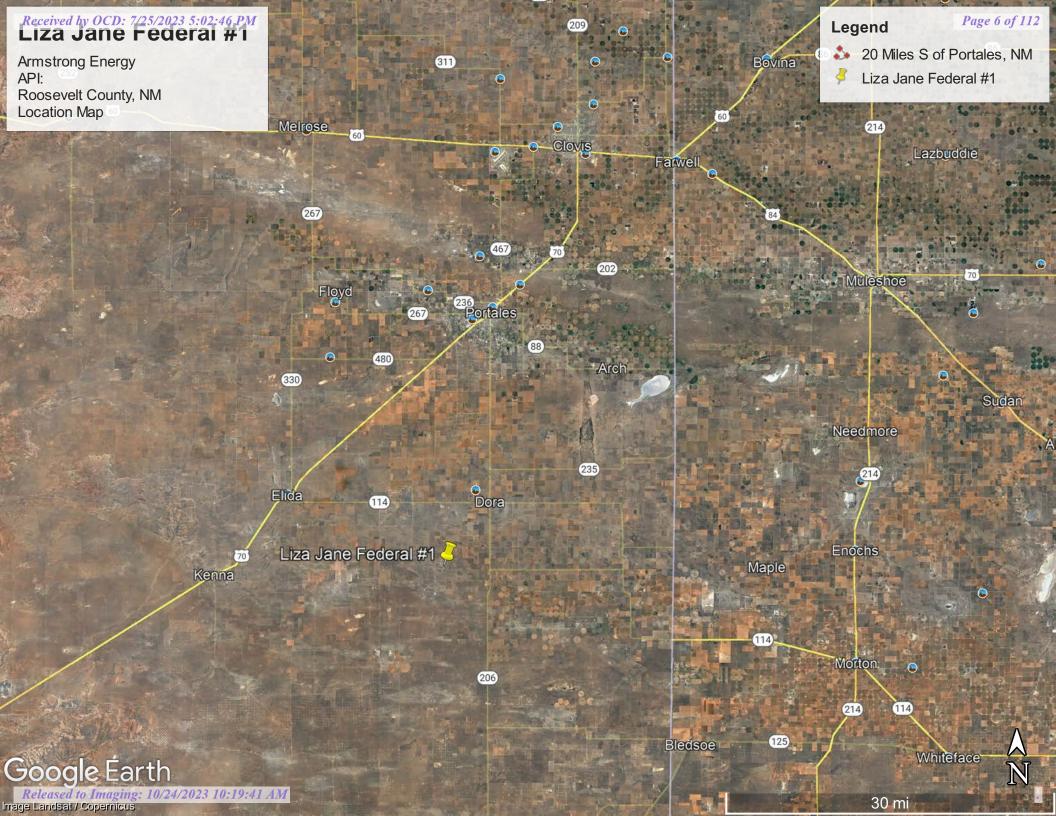
1-Location Map

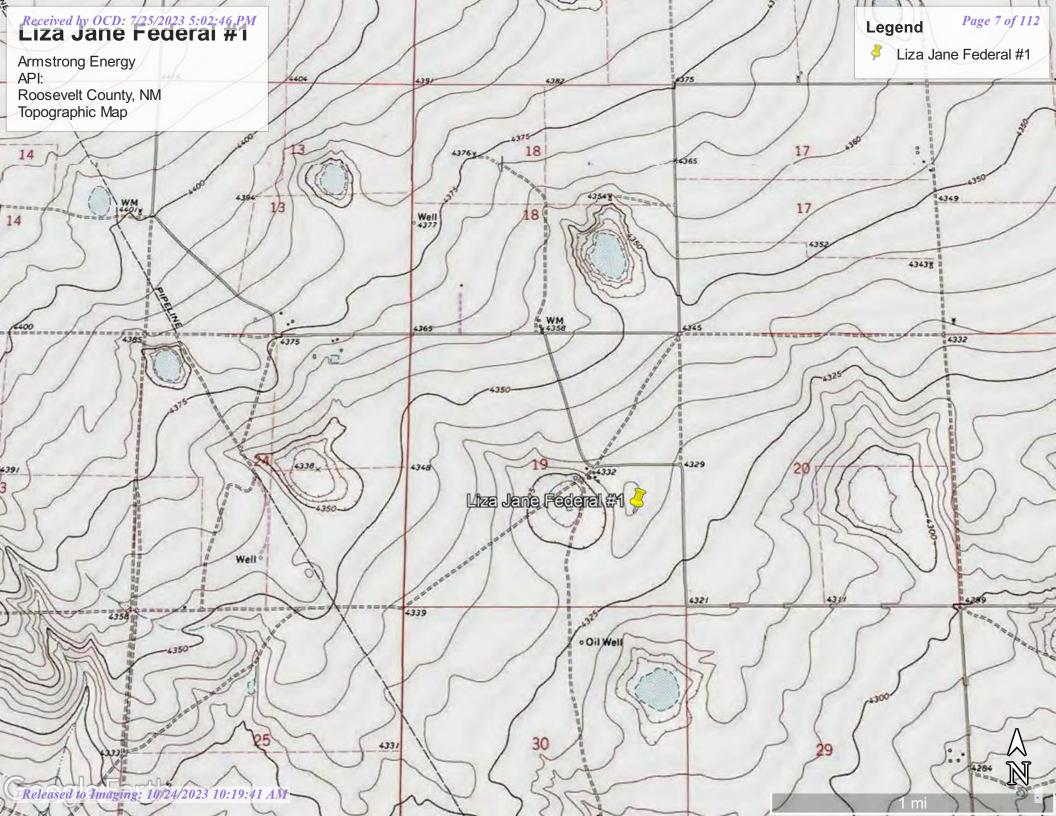
2-Topographic Map

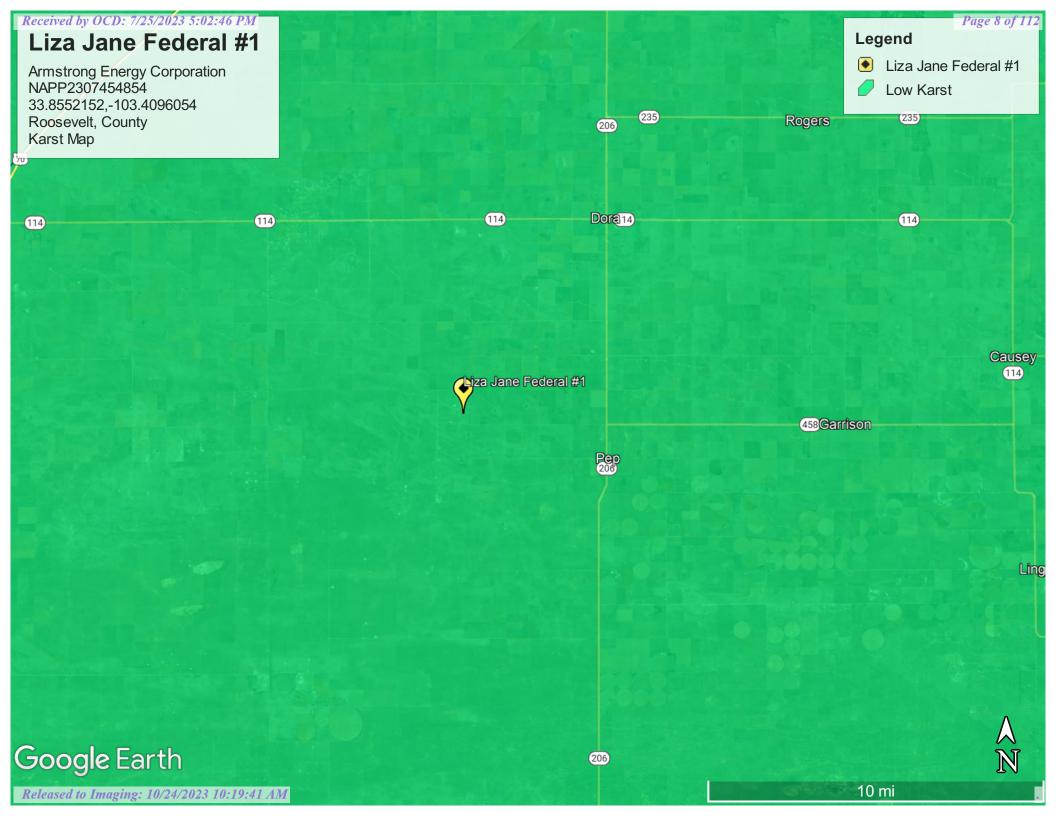
3-Karst Map

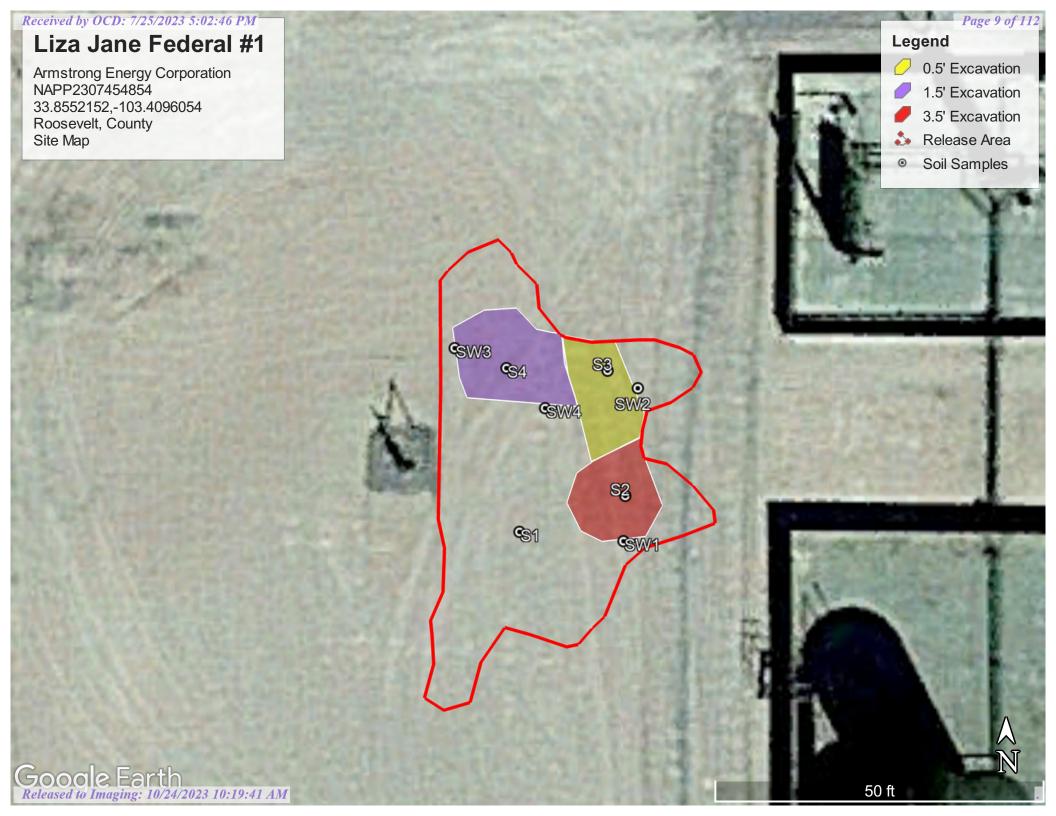
4-Site Map

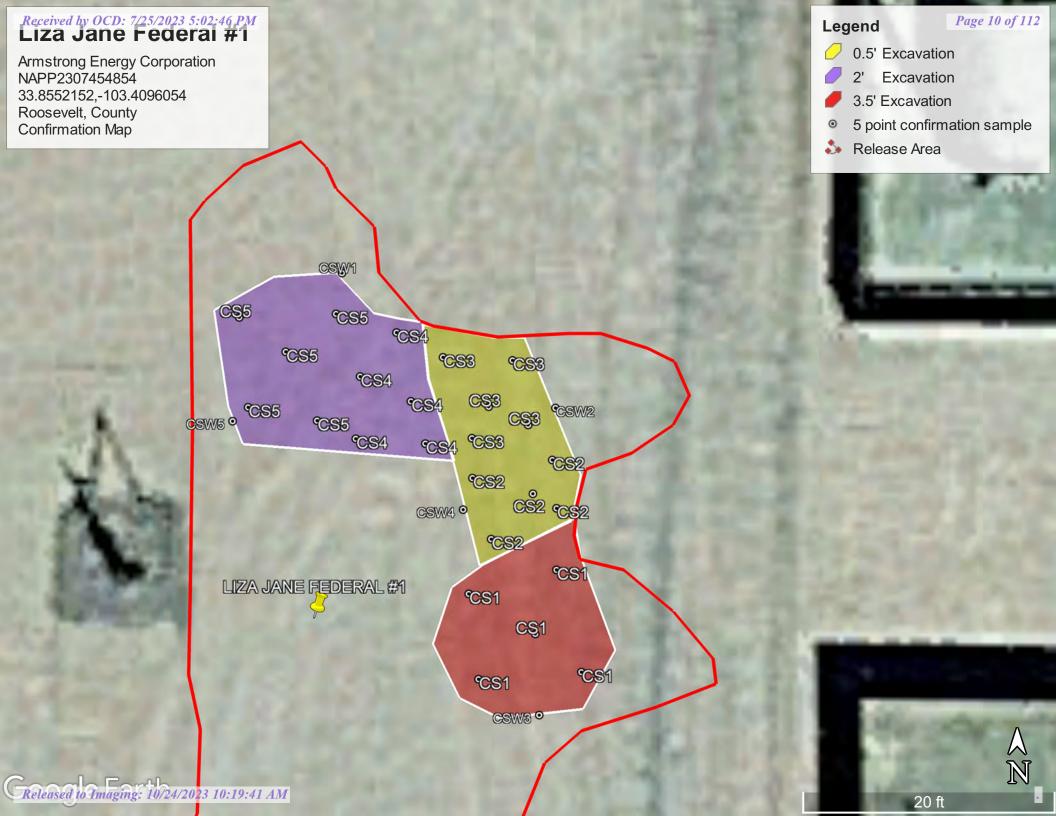
5-Confirmation Sample Map













## 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, C=the file is

closed)

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

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

(In feet)

		POD													
		Sub-		Q	Q	Q								V	Vater
POD Number	Code	basin	County	64	16	4	Sec	Tws	Rng	X	Y	DistanceDep	thWellDe	pthWater Co	lumn
CL 00398 POD1		CL	RO	3	1	2	19	05S	34E	646718	3748134	955	268		
CL 00156 POD1		CL	RO	1	1	2	24	05S	33E	645169	3748205*	2196	130		
CL 00158 POD1		CL	RO	2	2	4	13	05S	33E	645760	3749020*	2228	169		
CL 00157 POD1		CL	RO	3	3	4	13	05S	33E	645163	3748407*	2293	130		
CL 00369 POD1		CL	RO	3	2	1	34	05S	34E	651171	3744838	4696	90		
CL 00099 POD1		CL	RO		2	2	14	05S	34E	653698	3749861*	7019	165		
CL 00100 POD1		CL	RO		2	2	14	05S	34E	653698	3749861*	7019	185	115	70
CL 00388 POD1		CL	RO	4	4	2	03	05S	34E	652146	3752647	7314	188	58	130
CL 00374 POD1		CL	RO	2	2	4	02	05S	34E	653730	3752424	8332	120		
CL 00377 POD1		CL	RO	3	3	4	35	04S	34E	653222	3753313	8540	130		
CL 00168 POD2		CL	RO	4	4	4	10	06S	35E	653597	3741597	8589	108	57	51
CL 00168 POD1		CL	RO	4	4	4	10	06S	35E	653618	3741566	8625	113	58	55
CL 00413 POD1		CL	RO	2	2	1	29	05S	33E	638552	3746524	8648	120		
CL 00129 POD2		CL	RO	2	1	3	30	05S	35E	655881	3745972*	8814	204		
CL 00129 POD1		CL	RO	4	3	3	30	05S	35E	655887	3745370*	8929	140		
<u>CL 00376 POD1</u>		CL	RO	1	1	1	01	05S	34E	653860	3753236	8954	125		

Average Depth to Water:

72 feet

Minimum Depth:

57 feet

Maximum Depth:

115 feet

**Record Count:** 16

**UTMNAD83 Radius Search (in meters):** 

**Easting (X):** 647165.98 **Northing (Y):** 3747290.55 **Radius:** 9000

\*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.

3/21/23 4:23 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:		
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: <u>Next Generation Monitoring Location Page</u>

#### Search Results -- 1 sites found

site\_no list =

• 335109103255801

#### Minimum number of levels = 1

Save file of selected sites to local disk for future upload

#### USGS 335109103255801 05S.33E.24.32230

Available data for this site Groundwater: Field measurements > GO

Roosevelt County, New Mexico

Hydrologic Unit Code 12050001

Latitude 33°51'23.3", Longitude 103°25'59.8" NAD83

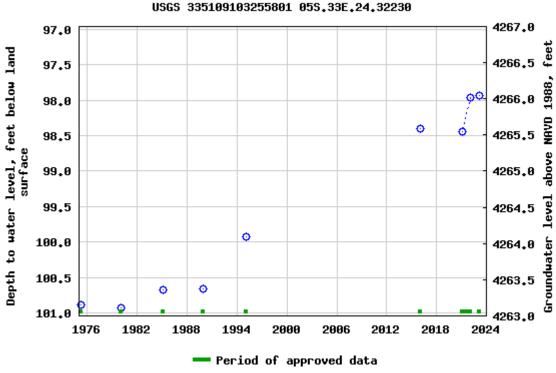
Land-surface elevation 4,364 feet above NAVD88

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

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

**Output formats** 

<u>Table of data</u>	
<u>Tab-separated data</u>	
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

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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: 2023-03-17 08:18:21 EDT

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## Appendix B

Soil Survey & Geological Data FEMA Flood Map Wetlands Map

### **Roosevelt County, New Mexico**

#### RtB—Ratliff sandy clay loam, 0 to 3 percent slopes

#### **Map Unit Setting**

National map unit symbol: 1idyf Elevation: 2,500 to 4,800 feet

Mean annual precipitation: 14 to 16 inches Mean annual air temperature: 57 to 63 degrees F

Frost-free period: 180 to 220 days

Farmland classification: Not prime farmland

#### **Map Unit Composition**

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

Estimates are based on observations, descriptions, and transects of

the mapunit.

#### **Description of Ratliff**

#### Setting

Landform: Playa steps, plains
Down-slope shape: Convex, linear

Across-slope shape: Linear

Parent material: Calcareous loamy eolian deposits

#### Typical profile

A - 0 to 8 inches: sandy clay loam
Bw - 8 to 25 inches: clay loam
Bk1 - 25 to 67 inches: clay loam
Bk2 - 67 to 80 inches: clay loam

#### **Properties and qualities**

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: Low

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.57 to 1.98 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 50 percent

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

mmhos/cm)

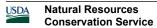
Sodium adsorption ratio, maximum: 2.0

Available water supply, 0 to 60 inches: Moderate (about 8.4

inches)

#### Interpretive groups

Land capability classification (irrigated): 3e Land capability classification (nonirrigated): 6e



Hydrologic Soil Group: B

Ecological site: R077DY042TX - Limy Upland 12-17" PZ

Hydric soil rating: No

#### **Minor Components**

#### Chavaro

Percent of map unit: 10 percent

Landform: Plains

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

Ecological site: R077DY042TX - Limy Upland 12-17" PZ

Hydric soil rating: No

#### Kenhill

Percent of map unit: 5 percent

Landform: Plains

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

Ecological site: R077DY038TX - Clay Loam 12-17" PZ

Hydric soil rating: No

#### **Data Source Information**

Soil Survey Area: Roosevelt County, New Mexico Survey Area Data: Version 19, Sep 8, 2022

### Roosevelt County, New Mexico

#### AvA—Arvana fine sandy loam, 0 to 1 percent slopes

#### **Map Unit Setting**

National map unit symbol: f5rn Elevation: 2,600 to 5,100 feet

Mean annual precipitation: 16 to 21 inches Mean annual air temperature: 57 to 63 degrees F

Frost-free period: 185 to 220 days

Farmland classification: Farmland of statewide importance

#### **Map Unit Composition**

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

Estimates are based on observations, descriptions, and transects of

the mapunit.

#### **Description of Arvana**

#### Setting

Landform: Plains

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

Parent material: Loamy eolian deposits

#### Typical profile

Ap - 0 to 11 inches: fine sandy loam

Bt - 11 to 26 inches: sandy clay loam

Bkkm - 26 to 37 inches: cemented material

Bkk - 37 to 80 inches: very gravelly loam

#### **Properties and qualities**

Slope: 0 to 1 percent

Depth to restrictive feature: 20 to 40 inches to petrocalcic

Drainage class: Well drained Runoff class: Medium

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

to moderately low (0.00 to 0.14 in/hr) Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 80 percent Maximum salinity: Nonsaline to slightly saline (0.0 to 5.0

mmhos/cm)

Sodium adsorption ratio, maximum: 5.0

Available water supply, 0 to 60 inches: Low (about 4.0 inches)

#### Interpretive groups

Land capability classification (irrigated): 2e Land capability classification (nonirrigated): 3e

Hydrologic Soil Group: C



Ecological site: R077CY036TX - Sandy Loam 16-21" PZ

Hydric soil rating: No

#### **Minor Components**

#### Sharvana

Percent of map unit: 7 percent

Landform: Plains

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

Ecological site: R077CY037TX - Very Shallow 16-21" PZ

Hydric soil rating: No

#### **Amarillo**

Percent of map unit: 6 percent

Landform: Plains

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

Ecological site: R077CY036TX - Sandy Loam 16-21" PZ

Hydric soil rating: No

#### **Posey**

Percent of map unit: 2 percent Landform: Playa slopes, plains Down-slope shape: Concave, convex

Across-slope shape: Linear

Ecological site: R077CY028TX - Limy Upland 16-21" PZ

Hydric soil rating: No

#### **Data Source Information**

Soil Survey Area: Roosevelt County, New Mexico Survey Area Data: Version 19, Sep 8, 2022

# National Flood Hazard Layer FIRMette





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

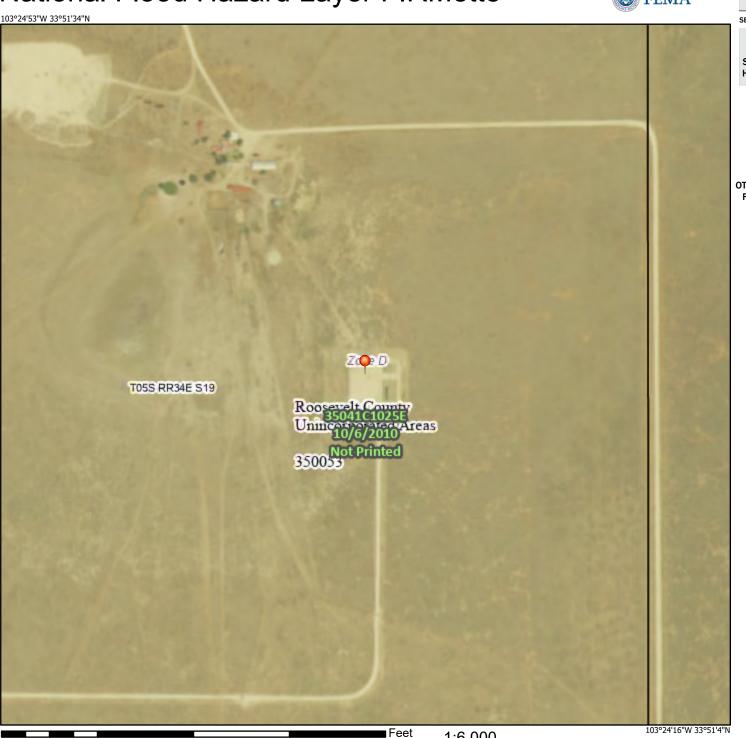
Without Base Flood Elevation (BFE) With BFE or Depth Zone AE, AO, AH, VE, AR SPECIAL FLOOD HAZARD AREAS Regulatory Floodway 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X **Future Conditions 1% Annual** Chance Flood Hazard Zone X Area with Reduced Flood Risk due to Levee. See Notes. Zone X OTHER AREAS OF Area with Flood Risk due to Levee Zone D FLOOD HAZARD NO SCREEN Area of Minimal Flood Hazard Zone X Effective LOMRs OTHER AREAS Area of Undetermined Flood Hazard Zone D - - - Channel, Culvert, or Storm Sewer **GENERAL** STRUCTURES | LILLILL Levee, Dike, or Floodwall 20.2 Cross Sections with 1% Annual Chance 17.5 Water Surface Elevation **Coastal Transect** Base Flood Elevation Line (BFE) Limit of Study **Jurisdiction Boundary** --- Coastal Transect Baseline OTHER **Profile Baseline FEATURES** Hydrographic Feature Digital Data Available No Digital Data Available MAP PANELS Unmapped The pin displayed on the map is an approximate point selected by the user and does not represent

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

an authoritative property location.

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 4/17/2023 at 5:25 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

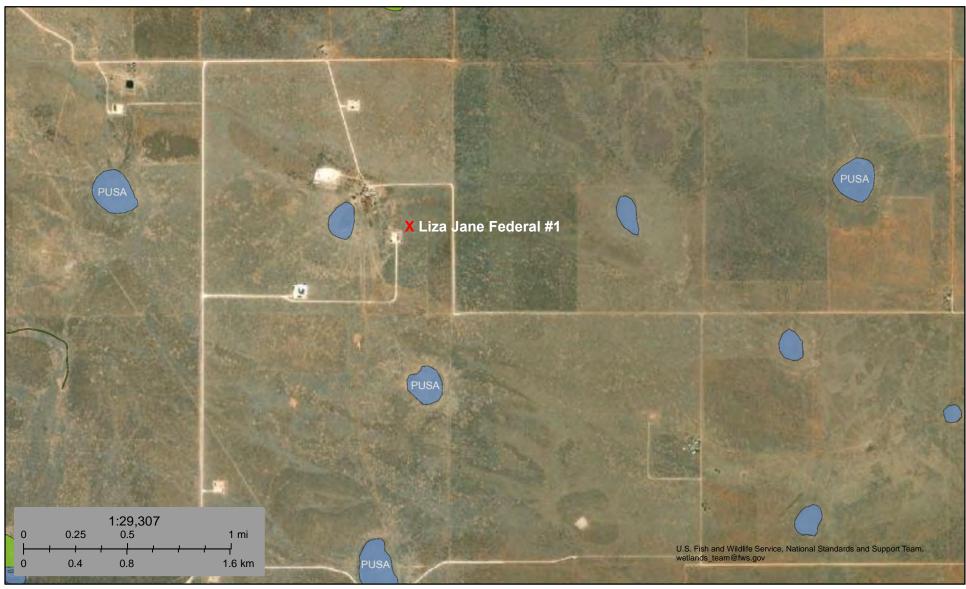
This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory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



2.000



## Wetlands Map



March 17, 2023

#### Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Pond

Lake

Freshwater Forested/Shrub Wetland

Riverine

Other

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

C-141 Form

48-Hour Notification

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

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	nAPP2307454854
District RP	
Facility ID	
Application ID	

## **Release Notification**

## **Responsible Party**

			resp	,01151		,			
Responsible	Party Ar	mstrong Energy C	Corporation		OGRID 1092				
Contact Nam	ne Jeffer	ry Tew		Contact Telephone 575-625-2222					
Contact ema	il Jtew	@aecnm.com			Incident #	(assigned by OCD) nAPP2307454854			
Contact mail	ing address	P.O. Box 1973	3, Roswell, NM 8	8202-	1973				
			Location	of R	Release So	ource			
Latitude	33.855215	2	(NAD 83 in de	cimal de	Longitude _ egrees to 5 decim	-103.4096054 mal places)			
Site Name	Liza	Jane Federal #1			Site Type				
Date Release	Discovered	3/15/2023			API# (if app	olicable) 30-041-20972			
Unit Letter	Section	Township	Range		County				
I	19	5S	34E	Roo	osevelt				
Surface Owne		X Federal T1	Nature and	d Vo	lume of F	Release justification for the volumes provided below)			
X Crude Oi		Volume Release			Volume Recovered (bbls) 2				
Produced	Water	Volume Release	ed (bbls)			Volume Recovered (bbls)			
		Is the concentrate produced water	tion of dissolved c >10,000 mg/l?	chlorid	le in the Yes No				
Condensa	nte	Volume Release	ed (bbls)			Volume Recovered (bbls)			
Natural G	das	Volume Release	ed (Mcf)			Volume Recovered (Mcf)			
Other (describe) Volume/Weight Released (provide units					) Volume/Weight Recovered (provide units)				
stuffi down	oment failure ng box pack astream, whi	ing was root cause	e. Packing appears	s to hav	ve deteriorate	er were found within it, leading us to believe defective ed and sent pieces of rubber into the backpressure valve by led to an overpressure of the stuffing box packing			

Received by OCD: 7/25/2023 5:02:46 PM Form C-141 State of New Mexico Page 2 Oil Conservation Division

Page 27 of 1.	<i>12</i>
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Incident ID	nAPP2307454854
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 respon	sible party consider this a major release?
Yes X No		
If YES, was immediate no	otice given to the OCD? By whom? To wh	om? When and by what means (phone, email, etc)?
	Initial Ro	esponse
The responsible p	party must undertake the following actions immediatel	unless they could create a safety hazard that would result in injury
x The source of the rele	ease has been stopped.	
x The impacted area ha	s been secured to protect human health and	the environment.
X Released materials ha	we been contained via the use of berms or d	ikes, absorbent pads, or other containment devices.
	ecoverable materials have been removed and	
If all the actions described	d above have <u>not</u> been undertaken, explain v	vhy:
7. 10.17.20.07.(1).17.		
has begun, please attach	a narrative of actions to date. If remedial	emediation immediately after discovery of a release. If remediation efforts have been successfully completed or if the release occurred lease attach all information needed for closure evaluation.
		pest of my knowledge and understand that pursuant to OCD rules and
public health or the environr failed to adequately investig	nent. The acceptance of a C-141 report by the Cate and remediate contamination that pose a thre	ications and perform corrective actions for releases which may endanger CD does not relieve the operator of liability should their operations have at to groundwater, surface water, human health or the environment. In responsibility for compliance with any other federal, state, or local laws
Printed Name:Jeffery	Tew	Title: Operations Engineer
Signature:	ry Tew	Date: 3/27/2023
email:Jtew@aecnm.co	//	Telephone: 575-625-2222
OCD Only		
Received by:	lyn Harimon	Date: 03/27/2023

Page 28 of 112

Incident ID	NAPP2307454854
District RP	
Facility ID	
Application ID	

## **Site Assessment/Characterization**

This information must be provided to the appropriate district office no taler than 90 days after the release discovery date.				
What is the shallowest depth to groundwater beneath the area affected by the release?	<50 (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 X 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 X No			
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	Yes X 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 X No			
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	Yes X No			
Are the lateral extents of the release within 300 feet of a wetland?	Yes X No			
Are the lateral extents of the release overlying a subsurface mine?	Yes X No			
Are the lateral extents of the release overlying an unstable area such as karst geology?	Yes X No			
Are the lateral extents of the release within a 100-year floodplain?	Yes X No			
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	Yes X 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.				

т				
haracterization 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.    X   Field data				

- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within ½-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.

Received by OCD: 7/25/2023 5:02:46 PM Form C-141 State of New Mexico Oil Conservation Division Page 4

Page 29 of 112

Incident ID	NAPP2307454854
District RP	
Facility ID	
Application ID	

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. Title: Operations Engineer Printed Name: Jeffery Tew effery Tew Date: 7/24/2023 Signature: ( Telephone: 575-625-2222 email: Jtew@aecnm.com **OCD Only** Date: \_\_\_\_\_ Received by:

Page 30 of 112

Incident ID	NAPP2307454854
District RP	
Facility ID	
Application ID	

## 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.

X A scaled site and sampling diagram as described in 19.15.29.11 NMAC	
X Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District offi must be notified 2 days prior to liner inspection)	е
X Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)	
X 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 ru 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.	es
Printed Name:Jeffery Tew Title: _Operations Engineer	
Signature: Deffery Tew Date: 7/24/2023  Telephone: 575 625 2222	
email: Jtew@aecnm.com  Telephone: 575-625-2222	
OCD Only	
Received by: Date:	
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the respons party of compliance with any other federal, state, or local laws and/or regulations.	
Closure Approved by: Nelson Velez Date: 10/24/2023	
Closure Approved by: Nelson Velez  Printed Name: Nelson Velez  Date: 10/24/2023  Title: Environmental Specialist - Adv	

From: sebastian@pimaoil.com
To: ocdonline@state.nm.us

Cc: Polly@pimaoil.com; "Gio PimaOil"; tom@pimaoil.com

Subject: Liza Jane Federal #001 NAPP2307454854 - Confirmation Sampling Event

**Date:** Thursday, April 6, 2023 1:32:16 PM

Attachments: <u>image001.png</u>

#### Good afternoon,

Pima Environmental would like to notify that we will be conducting a confirmation sampling event at the Liza Jane Federal #001 (NAPP2307454854), on April 9<sup>th</sup>, 2023. Pima personnel will be on location approximately at 7:00 am. Thank you.

Respectfully,
Sebastian Orozco
Environmental Professional
5614 N Lovington Hwy,
Hobbs, NM 88240
Sebastian@pimaoil.com
619-721-4813 cell





## Appendix D

Photographic Documentation



## SITE PHOTOGRAPHS ARMSTRONG ENERGY LIZA JANE FEDERAL #1

Site Assessment

Date: 3/15/2023



Date: 3/21/2023



Date: 3/21/2023



Date: 3/21/2023



Date: 3/21/2023



Date: 3/21/2023





Excavation and Post Remediation

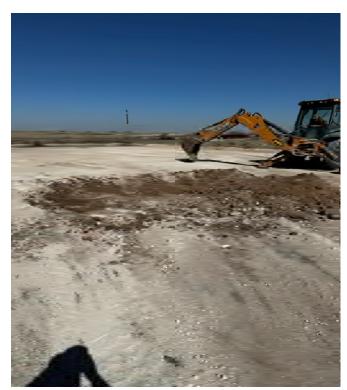
Date:4/9/2023



Date:4/9/2023



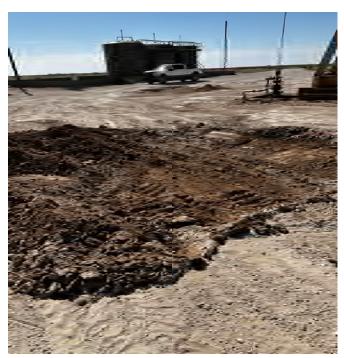
Date:4/9/2023



Date:4/9/2023



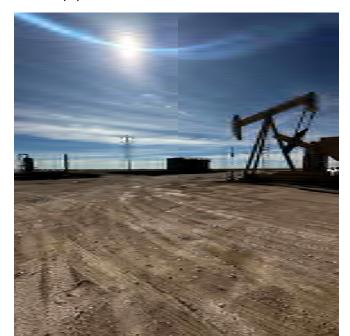
Date:4/9/2023



Date:4/9/2023



Date:4/9/2023



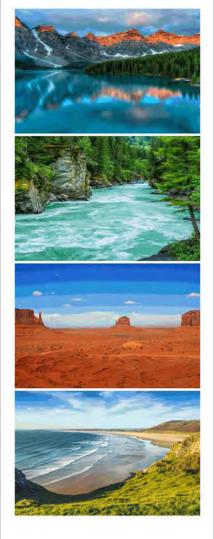




#### Appendix E

**Laboratory Reports** 

Report to:
Tom Bynum



5796 U.S. Hwy 64 Farmington, NM 87401

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





# envirotech

Practical Solutions for a Better Tomorrow

### **Analytical Report**

#### Pima Environmental Services-Carlsbad

Project Name: Liza Jane Federal #1

Work Order: E303077

Job Number: 21064-0001

Received: 3/22/2023

Revision: 2

Report Reviewed By:

Walter Hinchman Laboratory Director 3/30/23

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

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

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

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

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

Date Reported: 3/30/23

Tom Bynum PO Box 247 Plains, TX 79355-0247

Project Name: Liza Jane Federal #1

Workorder: E303077

Date Received: 3/22/2023 12:00:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/22/2023 12:00:00AM, under the Project Name: Liza Jane Federal #1.

The analytical test results summarized in this report with the Project Name: Liza Jane Federal #1 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues 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** 

West Texas Midland/Odessa Area

Sample Custody Officer Office: 505-632-1881

labadmin@envirotech-inc.com

Field Offices:

Southern New Mexico Area Lynn Jarboe

Lynn Jan Due

Technical Representative/Client Services

Office: 505-421-LABS(5227)

Cell: 505-320-4759

ljarboe@envirotech-inc.com

Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

Rayny Hagan

Technical Representative

### **Table of Contents**

•	Title Page	1
(	Cover Page	2
	Table of Contents	3
;	Sample Summary	5
,	Sample Data	6
	S1-Surface	6
	S1-1'	7
	S1-2'	8
	S1-3'	9
	S1-4'	10
	S2-Surface	11
	S2-1'	12
	S2-2'	13
	S2-3'	14
	S2-4'	15
	S3-Surface	16
	S3-1'	17
	S3-2'	18
	S3-3'	19
	S3-4'	20
	S4-Surface	21
	S4-1'	22
	S4-2'	23
	S4-3'	24
	S4-4'	25

## Table of Contents (continued)

	SW1	26
	SW2	27
	SW3	28
	SW4	29
Q	C Summary Data	30
	QC - Volatile Organic Compounds by EPA 8260B	30
	QC - Nonhalogenated Organics by EPA 8015D - GRO	32
	QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	34
	QC - Anions by EPA 300.0/9056A	36
D	efinitions and Notes	38
Cl	hain of Custody etc.	39

#### Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	Liza Jane Federal #1	Donoutoda
PO Box 247	Project Number:	21064-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	03/30/23 11:03

S1-Surface         E303077-01A         Soil         03/21/23         03/22/23         Glass Jar, 2 oz.           S1-1'         E303077-02A         Soil         03/21/23         03/22/23         Glass Jar, 2 oz.           S1-2'         E303077-03A         Soil         03/21/23         03/22/23         Glass Jar, 2 oz.           S1-3'         E303077-04A         Soil         03/21/23         03/22/23         Glass Jar, 2 oz.           S1-4'         E303077-05A         Soil         03/21/23         03/22/23         Glass Jar, 2 oz.           S2-Surface         E303077-06A         Soil         03/21/23         03/22/23         Glass Jar, 2 oz.           S2-1'         E303077-07A         Soil         03/21/23         03/22/23         Glass Jar, 2 oz.           S2-2'         E303077-08A         Soil         03/21/23         03/22/23         Glass Jar, 2 oz.           S2-3'         E303077-09A         Soil         03/21/23         03/22/23         Glass Jar, 2 oz.           S2-4'         E303077-10A         Soil         03/21/23         03/22/23         Glass Jar, 2 oz.           S3-Surface         E303077-11A         Soil         03/21/23         03/22/23         Glass Jar, 2 oz.           S3-2'         E303077-14A	Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S1-2'         E303077-03A         Soil         03/21/23         03/22/23         Glass Jar, 2 oz.           S1-3'         E303077-04A         Soil         03/21/23         03/22/23         Glass Jar, 2 oz.           S1-4'         E303077-05A         Soil         03/21/23         03/22/23         Glass Jar, 2 oz.           S2-Surface         E303077-06A         Soil         03/21/23         03/22/23         Glass Jar, 2 oz.           S2-1'         E303077-07A         Soil         03/21/23         03/22/23         Glass Jar, 2 oz.           S2-2'         E303077-08A         Soil         03/21/23         03/22/23         Glass Jar, 2 oz.           S2-3'         E303077-09A         Soil         03/21/23         03/22/23         Glass Jar, 2 oz.           S3-Surface         E303077-10A         Soil         03/21/23         03/22/23         Glass Jar, 2 oz.           S3-1'         E303077-11A         Soil         03/21/23         03/22/23         Glass Jar, 2 oz.           S3-2'         E303077-12A         Soil         03/21/23         03/22/23         Glass Jar, 2 oz.           S3-3'         E303077-14A         Soil         03/21/23         03/22/23         Glass Jar, 2 oz.           S4-Surface         E303077-15A	S1-Surface	E303077-01A	Soil	03/21/23	03/22/23	Glass Jar, 2 oz.
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S2-2'         E303077-08A         Soil         03/21/23         03/22/23         Glass Jar, 2 oz.           S2-3'         E303077-09A         Soil         03/21/23         03/22/23         Glass Jar, 2 oz.           S2-4'         E303077-10A         Soil         03/21/23         03/22/23         Glass Jar, 2 oz.           S3-Surface         E303077-11A         Soil         03/21/23         03/22/23         Glass Jar, 2 oz.           S3-1'         E303077-12A         Soil         03/21/23         03/22/23         Glass Jar, 2 oz.           S3-2'         E303077-13A         Soil         03/21/23         03/22/23         Glass Jar, 2 oz.           S3-3'         E303077-14A         Soil         03/21/23         03/22/23         Glass Jar, 2 oz.           S4-Surface         E303077-15A         Soil         03/21/23         03/22/23         Glass Jar, 2 oz.           S4-1'         E303077-16A         Soil         03/21/23         03/22/23         Glass Jar, 2 oz.           S4-2'         E303077-18A         Soil         03/21/23         03/22/23         Glass Jar, 2 oz.           S4-3'         E303077-20A         Soil         03/21/23         03/22/23         Glass Jar, 2 oz.           SW1         E303077-21A	S2-Surface	E303077-06A	Soil	03/21/23	03/22/23	Glass Jar, 2 oz.
\$2-3'       \$303077-09A       \$0il       \$03/21/23       \$03/22/23       \$Glass Jar, 2 oz.         \$2-4'       \$2303077-10A       \$0il       \$03/21/23       \$03/22/23       \$Glass Jar, 2 oz.         \$3-Surface       \$2303077-11A       \$0il       \$03/21/23       \$03/22/23       \$Glass Jar, 2 oz.         \$3-1'       \$2303077-12A       \$0il       \$03/21/23       \$03/22/23       \$Glass Jar, 2 oz.         \$3-2'       \$2303077-13A       \$0il       \$03/21/23       \$03/22/23       \$Glass Jar, 2 oz.         \$3-3'       \$2303077-14A       \$0il       \$03/21/23       \$03/22/23       \$Glass Jar, 2 oz.         \$3-4'       \$2303077-15A       \$0il       \$03/21/23       \$03/22/23       \$Glass Jar, 2 oz.         \$4-Surface       \$2303077-16A       \$0il       \$03/21/23       \$03/22/23       \$Glass Jar, 2 oz.         \$4-1'       \$2303077-17A       \$0il       \$03/21/23       \$03/22/23       \$Glass Jar, 2 oz.         \$4-2'       \$2303077-19A       \$0il       \$03/21/23       \$03/22/23       \$Glass Jar, 2 oz.         \$4-4'       \$2303077-20A       \$0il       \$03/21/23       \$03/22/23       \$Glass Jar, 2 oz.         \$W1       \$2303077-21A       \$0il       \$03/21/23       \$03/22/23       \$Glass J	S2-1'	E303077-07A	Soil	03/21/23	03/22/23	Glass Jar, 2 oz.
S2-4'       E303077-10A       Soil       03/21/23       03/22/23       Glass Jar, 2 oz.         S3-Surface       E303077-11A       Soil       03/21/23       03/22/23       Glass Jar, 2 oz.         S3-1'       E303077-12A       Soil       03/21/23       03/22/23       Glass Jar, 2 oz.         S3-2'       E303077-13A       Soil       03/21/23       03/22/23       Glass Jar, 2 oz.         S3-3'       E303077-14A       Soil       03/21/23       03/22/23       Glass Jar, 2 oz.         S3-4'       E303077-15A       Soil       03/21/23       03/22/23       Glass Jar, 2 oz.         S4-Surface       E303077-16A       Soil       03/21/23       03/22/23       Glass Jar, 2 oz.         S4-1'       E303077-17A       Soil       03/21/23       03/22/23       Glass Jar, 2 oz.         S4-2'       E303077-18A       Soil       03/21/23       03/22/23       Glass Jar, 2 oz.         S4-3'       E303077-20A       Soil       03/21/23       03/22/23       Glass Jar, 2 oz.         SW1       E303077-21A       Soil       03/21/23       03/22/23       Glass Jar, 2 oz.         SW2       E303077-22A       Soil       03/21/23       03/22/23       Glass Jar, 2 oz.         SW3 </td <td>S2-2'</td> <td>E303077-08A</td> <td>Soil</td> <td>03/21/23</td> <td>03/22/23</td> <td>Glass Jar, 2 oz.</td>	S2-2'	E303077-08A	Soil	03/21/23	03/22/23	Glass Jar, 2 oz.
S3-Surface       E303077-11A       Soil       03/21/23       03/22/23       Glass Jar, 2 oz.         S3-1'       E303077-12A       Soil       03/21/23       03/22/23       Glass Jar, 2 oz.         S3-2'       E303077-13A       Soil       03/21/23       03/22/23       Glass Jar, 2 oz.         S3-3'       E303077-14A       Soil       03/21/23       03/22/23       Glass Jar, 2 oz.         S3-4'       E303077-15A       Soil       03/21/23       03/22/23       Glass Jar, 2 oz.         S4-Surface       E303077-16A       Soil       03/21/23       03/22/23       Glass Jar, 2 oz.         S4-1'       E303077-17A       Soil       03/21/23       03/22/23       Glass Jar, 2 oz.         S4-2'       E303077-18A       Soil       03/21/23       03/22/23       Glass Jar, 2 oz.         S4-3'       E303077-19A       Soil       03/21/23       03/22/23       Glass Jar, 2 oz.         SW1       E303077-20A       Soil       03/21/23       03/22/23       Glass Jar, 2 oz.         SW2       E303077-22A       Soil       03/21/23       03/22/23       Glass Jar, 2 oz.         SW3       E303077-23A       Soil       03/21/23       03/22/23       Glass Jar, 2 oz.	S2-3'	E303077-09A	Soil	03/21/23	03/22/23	Glass Jar, 2 oz.
S3-1'       E303077-12A       Soil       03/21/23       03/22/23       Glass Jar, 2 oz.         S3-2'       E303077-13A       Soil       03/21/23       03/22/23       Glass Jar, 2 oz.         S3-3'       E303077-14A       Soil       03/21/23       03/22/23       Glass Jar, 2 oz.         S3-4'       E303077-15A       Soil       03/21/23       03/22/23       Glass Jar, 2 oz.         S4-Surface       E303077-16A       Soil       03/21/23       03/22/23       Glass Jar, 2 oz.         S4-1'       E303077-17A       Soil       03/21/23       03/22/23       Glass Jar, 2 oz.         S4-2'       E303077-18A       Soil       03/21/23       03/22/23       Glass Jar, 2 oz.         S4-3'       E303077-19A       Soil       03/21/23       03/22/23       Glass Jar, 2 oz.         SW1       E303077-20A       Soil       03/21/23       03/22/23       Glass Jar, 2 oz.         SW2       E303077-22A       Soil       03/21/23       03/22/23       Glass Jar, 2 oz.         SW3       E303077-22A       Soil       03/21/23       03/22/23       Glass Jar, 2 oz.	S2-4'	E303077-10A	Soil	03/21/23	03/22/23	Glass Jar, 2 oz.
S3-2'       E303077-13A       Soil       03/21/23       03/22/23       Glass Jar, 2 oz.         S3-3'       E303077-14A       Soil       03/21/23       03/22/23       Glass Jar, 2 oz.         S3-4'       E303077-15A       Soil       03/21/23       03/22/23       Glass Jar, 2 oz.         S4-Surface       E303077-16A       Soil       03/21/23       03/22/23       Glass Jar, 2 oz.         S4-1'       E303077-17A       Soil       03/21/23       03/22/23       Glass Jar, 2 oz.         S4-2'       E303077-18A       Soil       03/21/23       03/22/23       Glass Jar, 2 oz.         S4-3'       E303077-19A       Soil       03/21/23       03/22/23       Glass Jar, 2 oz.         SW1       E303077-20A       Soil       03/21/23       03/22/23       Glass Jar, 2 oz.         SW2       E303077-22A       Soil       03/21/23       03/22/23       Glass Jar, 2 oz.         SW3       E303077-23A       Soil       03/21/23       03/22/23       Glass Jar, 2 oz.	S3-Surface	E303077-11A	Soil	03/21/23	03/22/23	Glass Jar, 2 oz.
S3-3'       E303077-14A       Soil       03/21/23       03/22/23       Glass Jar, 2 oz.         S3-4'       E303077-15A       Soil       03/21/23       03/22/23       Glass Jar, 2 oz.         S4-Surface       E303077-16A       Soil       03/21/23       03/22/23       Glass Jar, 2 oz.         S4-1'       E303077-17A       Soil       03/21/23       03/22/23       Glass Jar, 2 oz.         S4-2'       E303077-18A       Soil       03/21/23       03/22/23       Glass Jar, 2 oz.         S4-3'       E303077-19A       Soil       03/21/23       03/22/23       Glass Jar, 2 oz.         S4-4'       E303077-20A       Soil       03/21/23       03/22/23       Glass Jar, 2 oz.         SW1       E303077-21A       Soil       03/21/23       03/22/23       Glass Jar, 2 oz.         SW2       E303077-22A       Soil       03/21/23       03/22/23       Glass Jar, 2 oz.         SW3       E303077-23A       Soil       03/21/23       03/22/23       Glass Jar, 2 oz.	S3-1'	E303077-12A	Soil	03/21/23	03/22/23	Glass Jar, 2 oz.
S3-4'       E303077-15A       Soil       03/21/23       03/22/23       Glass Jar, 2 oz.         S4-Surface       E303077-16A       Soil       03/21/23       03/22/23       Glass Jar, 2 oz.         S4-1'       E303077-17A       Soil       03/21/23       03/22/23       Glass Jar, 2 oz.         S4-2'       E303077-18A       Soil       03/21/23       03/22/23       Glass Jar, 2 oz.         S4-3'       E303077-19A       Soil       03/21/23       03/22/23       Glass Jar, 2 oz.         S4-4'       E303077-20A       Soil       03/21/23       03/22/23       Glass Jar, 2 oz.         SW1       E303077-21A       Soil       03/21/23       03/22/23       Glass Jar, 2 oz.         SW2       E303077-22A       Soil       03/21/23       03/22/23       Glass Jar, 2 oz.         SW3       E303077-23A       Soil       03/21/23       03/22/23       Glass Jar, 2 oz.	S3-2'	E303077-13A	Soil	03/21/23	03/22/23	Glass Jar, 2 oz.
S4-Surface       E303077-16A       Soil       03/21/23       03/22/23       Glass Jar, 2 oz.         S4-1'       E303077-17A       Soil       03/21/23       03/22/23       Glass Jar, 2 oz.         S4-2'       E303077-18A       Soil       03/21/23       03/22/23       Glass Jar, 2 oz.         S4-3'       E303077-19A       Soil       03/21/23       03/22/23       Glass Jar, 2 oz.         SW1       E303077-20A       Soil       03/21/23       03/22/23       Glass Jar, 2 oz.         SW2       E303077-22A       Soil       03/21/23       03/22/23       Glass Jar, 2 oz.         SW3       E303077-23A       Soil       03/21/23       03/22/23       Glass Jar, 2 oz.	S3-3'	E303077-14A	Soil	03/21/23	03/22/23	Glass Jar, 2 oz.
S4-1'       E303077-17A       Soil       03/21/23       03/22/23       Glass Jar, 2 oz.         S4-2'       E303077-18A       Soil       03/21/23       03/22/23       Glass Jar, 2 oz.         S4-3'       E303077-19A       Soil       03/21/23       03/22/23       Glass Jar, 2 oz.         S4-4'       E303077-20A       Soil       03/21/23       03/22/23       Glass Jar, 2 oz.         SW1       E303077-21A       Soil       03/21/23       03/22/23       Glass Jar, 2 oz.         SW2       E303077-22A       Soil       03/21/23       03/22/23       Glass Jar, 2 oz.         SW3       E303077-23A       Soil       03/21/23       03/22/23       Glass Jar, 2 oz.	S3-4'	E303077-15A	Soil	03/21/23	03/22/23	Glass Jar, 2 oz.
S4-2'       E303077-18A       Soil       03/21/23       03/22/23       Glass Jar, 2 oz.         S4-3'       E303077-19A       Soil       03/21/23       03/22/23       Glass Jar, 2 oz.         S4-4'       E303077-20A       Soil       03/21/23       03/22/23       Glass Jar, 2 oz.         SW1       E303077-21A       Soil       03/21/23       03/22/23       Glass Jar, 2 oz.         SW2       E303077-22A       Soil       03/21/23       03/22/23       Glass Jar, 2 oz.         SW3       E303077-23A       Soil       03/21/23       03/22/23       Glass Jar, 2 oz.	S4-Surface	E303077-16A	Soil	03/21/23	03/22/23	Glass Jar, 2 oz.
S4-3'       E303077-19A       Soil       03/21/23       03/22/23       Glass Jar, 2 oz.         S4-4'       E303077-20A       Soil       03/21/23       03/22/23       Glass Jar, 2 oz.         SW1       E303077-21A       Soil       03/21/23       03/22/23       Glass Jar, 2 oz.         SW2       E303077-22A       Soil       03/21/23       03/22/23       Glass Jar, 2 oz.         SW3       E303077-23A       Soil       03/21/23       03/22/23       Glass Jar, 2 oz.	S4-1'	E303077-17A	Soil	03/21/23	03/22/23	Glass Jar, 2 oz.
S4-4'       E303077-20A       Soil       03/21/23       03/22/23       Glass Jar, 2 oz.         SW1       E303077-21A       Soil       03/21/23       03/22/23       Glass Jar, 2 oz.         SW2       E303077-22A       Soil       03/21/23       03/22/23       Glass Jar, 2 oz.         SW3       E303077-23A       Soil       03/21/23       03/22/23       Glass Jar, 2 oz.	S4-2'	E303077-18A	Soil	03/21/23	03/22/23	Glass Jar, 2 oz.
SW1       E303077-21A       Soil       03/21/23       03/22/23       Glass Jar, 2 oz.         SW2       E303077-22A       Soil       03/21/23       03/22/23       Glass Jar, 2 oz.         SW3       E303077-23A       Soil       03/21/23       03/22/23       Glass Jar, 2 oz.	S4-3'	E303077-19A	Soil	03/21/23	03/22/23	Glass Jar, 2 oz.
SW2       E303077-22A       Soil       03/21/23       03/22/23       Glass Jar, 2 oz.         SW3       E303077-23A       Soil       03/21/23       03/22/23       Glass Jar, 2 oz.	S4-4'	E303077-20A	Soil	03/21/23	03/22/23	Glass Jar, 2 oz.
SW3 E303077-23A Soil 03/21/23 03/22/23 Glass Jar, 2 oz.	SW1	E303077-21A	Soil	03/21/23	03/22/23	Glass Jar, 2 oz.
	SW2	E303077-22A	Soil	03/21/23	03/22/23	Glass Jar, 2 oz.
SW4 E303077-24A Soil 03/21/23 03/22/23 Glass Jar, 2 oz.	SW3	E303077-23A	Soil	03/21/23	03/22/23	Glass Jar, 2 oz.
	SW4	E303077-24A	Soil	03/21/23	03/22/23	Glass Jar, 2 oz.

ſ	Pima Environmental Services-Carlsbad	Project Name:	Liza Jane Federal #1	
	PO Box 247	Project Number:	21064-0001	Reported:
	Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/30/2023 11:03:16AM

#### S1-Surface E303077-01

Andre	Result	Reporting Limit		ıtion	Prepared	A	Notes
Analyte	Result	Limit	Dill	ltion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2312029
Benzene	ND	0.0250	1	1	03/22/23	03/23/23	
Ethylbenzene	ND	0.0250	1	1	03/22/23	03/23/23	
Toluene	ND	0.0250	1	1	03/22/23	03/23/23	
o-Xylene	ND	0.0250	1	1	03/22/23	03/23/23	
p,m-Xylene	ND	0.0500	1	1	03/22/23	03/23/23	
Total Xylenes	ND	0.0250	1	1	03/22/23	03/23/23	
Surrogate: Bromofluorobenzene		88.5 %	70-130		03/22/23	03/23/23	
Surrogate: 1,2-Dichloroethane-d4		92.0 %	70-130		03/22/23	03/23/23	
Surrogate: Toluene-d8		102 %	70-130		03/22/23	03/23/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2312029
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	03/22/23	03/23/23	
Surrogate: Bromofluorobenzene		88.5 %	70-130		03/22/23	03/23/23	
Surrogate: 1,2-Dichloroethane-d4		92.0 %	70-130		03/22/23	03/23/23	
Surrogate: Toluene-d8		102 %	70-130		03/22/23	03/23/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	JL		Batch: 2312040
Diesel Range Organics (C10-C28)	ND	25.0	1	1	03/22/23	03/22/23	_
Oil Range Organics (C28-C36)	ND	50.0	1	1	03/22/23	03/22/23	
Surrogate: n-Nonane		80.2 %	50-200		03/22/23	03/22/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	BA		Batch: 2312033
Chloride	52.2	20.0	1	1	03/22/23	03/22/23	



Pima Environmental Services-Carlsbad	Project Name:	Liza Jane Federal #1	
PO Box 247	Project Number:	21064-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/30/2023 11:03:16AM

#### S1-1' E303077-02

	Reporting					
Result	Limit	Dil	lution	Prepared	Analyzed	Notes
mg/kg	mg/kg		Analyst:	IY		Batch: 2312029
ND	0.0250		1	03/22/23	03/23/23	
ND	0.0250		1	03/22/23	03/23/23	
ND	0.0250		1	03/22/23	03/23/23	
ND	0.0250		1	03/22/23	03/23/23	
ND	0.0500		1	03/22/23	03/23/23	
ND	0.0250		1	03/22/23	03/23/23	
	91.1 %	70-130		03/22/23	03/23/23	
	93.9 %	70-130		03/22/23	03/23/23	
	101 %	70-130		03/22/23	03/23/23	
mg/kg	mg/kg		Analyst:	IY		Batch: 2312029
ND	20.0		1	03/22/23	03/23/23	
	91.1 %	70-130		03/22/23	03/23/23	
	93.9 %	70-130		03/22/23	03/23/23	
	101 %	70-130		03/22/23	03/23/23	
mg/kg	mg/kg		Analyst:	JL		Batch: 2312040
ND	25.0		1	03/22/23	03/22/23	
ND	50.0		1	03/22/23	03/22/23	
	78.6 %	50-200		03/22/23	03/22/23	
mg/kg	mg/kg		Analyst:	BA		Batch: 2312033
41.1	20.0		1	03/22/23	03/22/23	
	ND Mg/kg ND Mg/kg	Result         Limit           mg/kg         mg/kg           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0500           ND         0.0250           91.1 %         93.9 %           101 %         101 %           mg/kg         mg/kg           ND         20.0           91.1 %         93.9 %           101 %         101 %           mg/kg         mg/kg           ND         25.0           ND         50.0           78.6 %         mg/kg           mg/kg         mg/kg	Result         Limit         Di           mg/kg         mg/kg           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0500           ND         0.0250           ND         0.0250           91.1 %         70-130           93.9 %         70-130           101 %         70-130           93.9 %         70-130           93.9 %         70-130           101 %         70-130           mg/kg         mg/kg           ND         25.0           ND         50.0           78.6 %         50-200           mg/kg         mg/kg	Result         Limit         Dilution           mg/kg         mg/kg         Analyst:           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0500         1           ND         0.0250         1           91.1 %         70-130           93.9 %         70-130           101 %         70-130           mg/kg         mg/kg         Analyst:           ND         20.0         1           93.9 %         70-130         1           mg/kg         mg/kg         Analyst:           ND         25.0         1           ND         50.0         1           78.6 %         50-200           mg/kg         Mg/kg         Analyst:	Result         Limit         Dilution         Prepared           mg/kg         mg/kg         Analyst: IY           ND         0.0250         1         03/22/23           ND         0.0250         1         03/22/23           ND         0.0250         1         03/22/23           ND         0.0500         1         03/22/23           ND         0.0250         1         03/22/23           ND         0.0250         1         03/22/23           91.1 %         70-130         03/22/23           93.9 %         70-130         03/22/23           101 %         70-130         03/22/23           91.1 %         70-130         03/22/23           93.9 %         70-130         03/22/23           93.9 %         70-130         03/22/23           101 %         70-130         03/22/23           101 %         70-130         03/22/23           mg/kg         mg/kg         Analyst: JL           ND         25.0         1         03/22/23           ND         50.0         1         03/22/23           ND         50.0         1         03/22/23           78.6 % <td>Result         Limit         Dilution         Prepared         Analyzed           mg/kg         mg/kg         Analyst: IY           ND         0.0250         1         03/22/23         03/23/23           ND         0.0500         1         03/22/23         03/23/23           ND         0.0250         1         03/22/23         03/23/23           91.1 %         70-130         03/22/23         03/23/23           93.9 %         70-130         03/22/23         03/23/23           mg/kg         mg/kg         Analyst: IY           ND         20.0         1         03/22/23         03/23/23           93.9 %         70-130         03/22/23         03/23/23           93.9 %         70-130         03/22/23         03/23/23           93.9 %         70-130         03/22/23         03/23/23           93.9 %         70-130         03/22/23         03/22/23           03/22/23         03/22/23</td>	Result         Limit         Dilution         Prepared         Analyzed           mg/kg         mg/kg         Analyst: IY           ND         0.0250         1         03/22/23         03/23/23           ND         0.0500         1         03/22/23         03/23/23           ND         0.0250         1         03/22/23         03/23/23           91.1 %         70-130         03/22/23         03/23/23           93.9 %         70-130         03/22/23         03/23/23           mg/kg         mg/kg         Analyst: IY           ND         20.0         1         03/22/23         03/23/23           93.9 %         70-130         03/22/23         03/23/23           93.9 %         70-130         03/22/23         03/23/23           93.9 %         70-130         03/22/23         03/23/23           93.9 %         70-130         03/22/23         03/22/23           03/22/23         03/22/23



Pima Environmental Services-Carlsbad	Project Name:	Liza Jane Federal #1	
PO Box 247	Project Number:	21064-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/30/2023 11:03:16AM

#### S1-2' E303077-03

		Reporting					
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	1	Analyst: IY		Batch: 2312029	
Benzene	ND	0.0250	1		03/22/23	03/23/23	
Ethylbenzene	ND	0.0250	1		03/22/23	03/23/23	
Toluene	ND	0.0250	1		03/22/23	03/23/23	
o-Xylene	ND	0.0250	1		03/22/23	03/23/23	
p,m-Xylene	ND	0.0500	1		03/22/23	03/23/23	
Total Xylenes	ND	0.0250	1	ļ	03/22/23	03/23/23	
Surrogate: Bromofluorobenzene		93.7 %	70-130		03/22/23	03/23/23	
Surrogate: 1,2-Dichloroethane-d4		98.3 %	70-130		03/22/23	03/23/23	
Surrogate: Toluene-d8		100 %	70-130		03/22/23	03/23/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	1	Analyst:	IY		Batch: 2312029
Gasoline Range Organics (C6-C10)	ND	20.0	1		03/22/23	03/23/23	
Surrogate: Bromofluorobenzene		93.7 %	70-130		03/22/23	03/23/23	
Surrogate: 1,2-Dichloroethane-d4		98.3 %	70-130		03/22/23	03/23/23	
Surrogate: Toluene-d8		100 %	70-130		03/22/23	03/23/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	1	Analyst:	JL		Batch: 2312040
Diesel Range Organics (C10-C28)	25.0	25.0	1		03/22/23	03/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1		03/22/23	03/22/23	
Surrogate: n-Nonane		71.6 %	50-200		03/22/23	03/22/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	1	Analyst:	BA		Batch: 2312033
Chloride	69.0	20.0	1		03/22/23	03/22/23	

Pima Environmental Services-Carlsbad	Project Name:	Liza Jane Federal #1	
PO Box 247	Project Number:	21064-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/30/2023 11:03:16AM

#### S1-3' E303077-04

	D. I.	Reporting	D."	.•	D 1		N
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	1	Analyst: Γ	Y		Batch: 2312029
Benzene	ND	0.0250	1		03/22/23	03/23/23	
Ethylbenzene	ND	0.0250	1		03/22/23	03/23/23	
Toluene	ND	0.0250	1		03/22/23	03/23/23	
o-Xylene	ND	0.0250	1		03/22/23	03/23/23	
p,m-Xylene	ND	0.0500	1		03/22/23	03/23/23	
Total Xylenes	ND	0.0250	1	Į.	03/22/23	03/23/23	
Surrogate: Bromofluorobenzene		92.8 %	70-130		03/22/23	03/23/23	
Surrogate: 1,2-Dichloroethane-d4		96.9 %	70-130		03/22/23	03/23/23	
Surrogate: Toluene-d8		102 %	70-130		03/22/23	03/23/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	1	Analyst: Γ	Y		Batch: 2312029
Gasoline Range Organics (C6-C10)	ND	20.0	1		03/22/23	03/23/23	
Surrogate: Bromofluorobenzene		92.8 %	70-130		03/22/23	03/23/23	
Surrogate: 1,2-Dichloroethane-d4		96.9 %	70-130		03/22/23	03/23/23	
Surrogate: Toluene-d8		102 %	70-130		03/22/23	03/23/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	1	Analyst: J	L		Batch: 2312040
Diesel Range Organics (C10-C28)	25.8	25.0	1		03/22/23	03/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	<u> </u>	03/22/23	03/22/23	
Surrogate: n-Nonane		78.0 %	50-200		03/22/23	03/22/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	1	Analyst: B	BA		Batch: 2312033
Chloride	103	20.0	1		03/22/23	03/22/23	

Surrogate: n-Nonane

Chloride

Anions by EPA 300.0/9056A

#### Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Liza Jane Federal #1	
PO Box 247	Project Number:	21064-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/30/2023 11:03:16AM

#### S1-4'

#### E303077-05 Reporting Analyte Limit Dilution Result Prepared Analyzed Notes Analyst: IY Batch: 2312029 mg/kg mg/kg **Volatile Organic Compounds by EPA 8260B** 03/22/23 03/23/23 ND 0.0250 Benzene 1 03/22/23 03/23/23 Ethylbenzene ND 0.0250ND 0.0250 03/22/23 03/23/23 Toluene 1 03/22/23 03/23/23 o-Xylene ND 0.025003/22/23 03/23/23 ND 0.0500 1 p,m-Xylene 03/22/23 03/23/23 1 Total Xylenes ND 0.0250 91.0 % 03/22/23 03/23/23 Surrogate: Bromofluorobenzene 70-130 Surrogate: 1,2-Dichloroethane-d4 96.8 % 70-130 03/22/2303/23/23 Surrogate: Toluene-d8 105 % 70-130 03/22/2303/23/23 Nonhalogenated Organics by EPA 8015D - GRO mg/kg mg/kg Analyst: IY Batch: 2312029 ND 1 03/22/23 03/23/23 20.0 Gasoline Range Organics (C6-C10) Surrogate: Bromofluorobenzene 91.0 % 03/22/23 03/23/23 70-130 03/22/23 03/23/23 Surrogate: 1,2-Dichloroethane-d4 96.8 % 70-130 Surrogate: Toluene-d8 03/22/23 03/23/23 105 % 70-130 mg/kg Analyst: JL Batch: 2312040 mg/kg Nonhalogenated Organics by EPA 8015D - DRO/ORO 03/22/23 03/22/23 ND 25.0 1 Diesel Range Organics (C10-C28) ND 50.0 1 03/22/23 03/22/23 Oil Range Organics (C28-C36)

84.3 %

mg/kg

20.0

mg/kg

ND

50-200

03/22/23

03/22/23

Analyst: BA

1

03/22/23

03/22/23

Batch: 2312033

Pima Environmental Services-Carlsbad	Project Name:	Liza Jane Federal #1	
PO Box 247	Project Number:	21064-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/30/2023 11:03:16AM

#### S2-Surface E303077-06

Analyte	Result	Reporting Limit	Diluti	on Prepared	Analyzed	Notes
Amary				1	Anaryzeu	
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	nalyst: IY		Batch: 2312029
Benzene	ND	0.0250	1	03/22/23	03/23/23	
Ethylbenzene	ND	0.0250	1	03/22/23	03/23/23	
Toluene	ND	0.0250	1	03/22/23	03/23/23	
o-Xylene	ND	0.0250	1	03/22/23	03/23/23	
p,m-Xylene	ND	0.0500	1	03/22/23	03/23/23	
Total Xylenes	ND	0.0250	1	03/22/23	03/23/23	
Surrogate: Bromofluorobenzene		92.1 %	70-130	03/22/23	03/23/23	
Surrogate: 1,2-Dichloroethane-d4		98.4 %	70-130	03/22/23	03/23/23	
Surrogate: Toluene-d8		104 %	70-130	03/22/23	03/23/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	nalyst: IY		Batch: 2312029
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/22/23	03/23/23	
Surrogate: Bromofluorobenzene		92.1 %	70-130	03/22/23	03/23/23	
Surrogate: 1,2-Dichloroethane-d4		98.4 %	70-130	03/22/23	03/23/23	
Surrogate: Toluene-d8		104 %	70-130	03/22/23	03/23/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	nalyst: JL		Batch: 2312040
Diesel Range Organics (C10-C28)	ND	25.0	1	03/22/23	03/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	03/22/23	03/22/23	
Surrogate: n-Nonane		92.7 %	50-200	03/22/23	03/22/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	nalyst: BA		Batch: 2312033
Chloride	30.8	20.0	1	03/22/23	03/22/23	

Pima Environmental Services-Carlsbad	Project Name:	Liza Jane Federal #1	
PO Box 247	Project Number:	21064-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/30/2023 11:03:16AM

#### S2-1' E303077-07

Analyte	Result	Reporting Limit		lution	Prepared	Analyzed	Notes
Лиатун			Dil		•	Allalyzed	
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2312029
Benzene	ND	0.0250		1	03/22/23	03/23/23	
Ethylbenzene	ND	0.0250		1	03/22/23	03/23/23	
Toluene	ND	0.0250		1	03/22/23	03/23/23	
o-Xylene	ND	0.0250		1	03/22/23	03/23/23	
p,m-Xylene	ND	0.0500		1	03/22/23	03/23/23	
Total Xylenes	ND	0.0250		1	03/22/23	03/23/23	
Surrogate: Bromofluorobenzene		94.2 %	70-130		03/22/23	03/23/23	
Surrogate: 1,2-Dichloroethane-d4		98.3 %	70-130		03/22/23	03/23/23	
Surrogate: Toluene-d8		101 %	70-130		03/22/23	03/23/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2312029
Gasoline Range Organics (C6-C10)	ND	20.0		1	03/22/23	03/23/23	
Surrogate: Bromofluorobenzene		94.2 %	70-130		03/22/23	03/23/23	
Surrogate: 1,2-Dichloroethane-d4		98.3 %	70-130		03/22/23	03/23/23	
Surrogate: Toluene-d8		101 %	70-130		03/22/23	03/23/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	JL		Batch: 2312040
Diesel Range Organics (C10-C28)	ND	25.0		1	03/22/23	03/22/23	
Oil Range Organics (C28-C36)	ND	50.0		1	03/22/23	03/22/23	
Surrogate: n-Nonane		78.6 %	50-200		03/22/23	03/22/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	BA		Batch: 2312033
Chloride	ND	20.0		1	03/22/23	03/22/23	



Pima Environmental Services-Carlsbad	Project Name:	Liza Jane Federal #1	
PO Box 247	Project Number:	21064-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/30/2023 11:03:16AM

S2-2'

		E303077-08				
		Reporting				
Analyte	Result	Limit	Dilu	tion Prepa	red Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	1	Analyst: IY		Batch: 2312029
Benzene	ND	0.0250	1	03/22	/23 03/23/23	
Ethylbenzene	ND	0.0250	1	03/22	/23 03/23/23	
Toluene	ND	0.0250	1	03/22	/23 03/23/23	
o-Xylene	ND	0.0250	1	03/22	/23 03/23/23	
p,m-Xylene	ND	0.0500	1	03/22	/23 03/23/23	
Total Xylenes	ND	0.0250	1	03/22	/23 03/23/23	
Surrogate: Bromofluorobenzene		92.1 %	70-130	03/22	/23 03/23/23	
Surrogate: 1,2-Dichloroethane-d4		97.3 %	70-130	03/22	/23 03/23/23	
Surrogate: Toluene-d8		104 %	70-130	03/22	/23 03/23/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	1	Analyst: IY		Batch: 2312029
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/22	/23 03/23/23	
Surrogate: Bromofluorobenzene		92.1 %	70-130	03/22	/23 03/23/23	
Surrogate: 1,2-Dichloroethane-d4		97.3 %	70-130	03/22	/23 03/23/23	
Surrogate: Toluene-d8		104 %	70-130	03/22	/23 03/23/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2312040
Diesel Range Organics (C10-C28)	513	25.0	1	03/22	/23 03/22/23	
Oil Range Organics (C28-C36)	275	50.0	1	03/22	/23 03/22/23	
Surrogate: n-Nonane		86.7 %	50-200	03/22	/23 03/22/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	1	Analyst: BA		Batch: 2312033

20.0

03/22/23

03/22/23

48.8



Chloride

Pima Environmental Services-Carlsbad	Project Name:	Liza Jane Federal #1	
PO Box 247	Project Number:	21064-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/30/2023 11:03:16AM

#### S2-3' E303077-09

		Reporting					
Analyte	Result	Limit	Dilı	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2312029
Benzene	ND	0.0250		1	03/22/23	03/23/23	
Ethylbenzene	ND	0.0250		1	03/22/23	03/23/23	
Toluene	ND	0.0250		1	03/22/23	03/23/23	
o-Xylene	ND	0.0250		1	03/22/23	03/23/23	
p,m-Xylene	ND	0.0500		1	03/22/23	03/23/23	
Total Xylenes	ND	0.0250		1	03/22/23	03/23/23	
Surrogate: Bromofluorobenzene		92.3 %	70-130		03/22/23	03/23/23	
Surrogate: 1,2-Dichloroethane-d4		97.4 %	70-130		03/22/23	03/23/23	
Surrogate: Toluene-d8		98.3 %	70-130		03/22/23	03/23/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2312029
Gasoline Range Organics (C6-C10)	ND	20.0		1	03/22/23	03/23/23	
Surrogate: Bromofluorobenzene		92.3 %	70-130		03/22/23	03/23/23	
Surrogate: 1,2-Dichloroethane-d4		97.4 %	70-130		03/22/23	03/23/23	
Surrogate: Toluene-d8		98.3 %	70-130		03/22/23	03/23/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	JL		Batch: 2312040
Diesel Range Organics (C10-C28)	90.5	25.0		1	03/22/23	03/23/23	
Oil Range Organics (C28-C36)	59.2	50.0		1	03/22/23	03/23/23	
Surrogate: n-Nonane		72.6 %	50-200		03/22/23	03/23/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	BA		Batch: 2312033
Chloride	85.7	20.0		1	03/22/23	03/22/23	



Pima Environmental Services-Carlsbad	Project Name:	Liza Jane Federal #1	
PO Box 247	Project Number:	21064-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/30/2023 11:03:16AM

#### S2-4' E303077-10

	_	Reporting	_			
Analyte	Result	Limit	Dilut	tion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	1	Analyst: IY		Batch: 2312029
Benzene	ND	0.0250	1	03/22/23	03/23/23	
Ethylbenzene	ND	0.0250	1	03/22/23	03/23/23	
Toluene	ND	0.0250	1	03/22/23	03/23/23	
o-Xylene	ND	0.0250	1	03/22/23	03/23/23	
p,m-Xylene	ND	0.0500	1	03/22/23	03/23/23	
Total Xylenes	ND	0.0250	1	03/22/23	03/23/23	
Surrogate: Bromofluorobenzene		94.1 %	70-130	03/22/23	03/23/23	
Surrogate: 1,2-Dichloroethane-d4		97.2 %	70-130	03/22/23	03/23/23	
Surrogate: Toluene-d8		101 %	70-130	03/22/23	03/23/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	I	Analyst: IY		Batch: 2312029
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/22/23	03/23/23	
Surrogate: Bromofluorobenzene		94.1 %	70-130	03/22/23	03/23/23	
Surrogate: 1,2-Dichloroethane-d4		97.2 %	70-130	03/22/23	03/23/23	
Surrogate: Toluene-d8		101 %	70-130	03/22/23	03/23/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	1	Analyst: JL		Batch: 2312040
Diesel Range Organics (C10-C28)	ND	25.0	1	03/22/23	03/23/23	
Oil Range Organics (C28-C36)	ND	50.0	1	03/22/23	03/23/23	
Surrogate: n-Nonane		93.8 %	50-200	03/22/23	03/23/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	1	Analyst: BA		Batch: 2312033
Chloride	ND	20.0	1	03/22/23	03/22/23	



Pima Environmental Services-Carlsbad	Project Name:	Liza Jane Federal #1	
PO Box 247	Project Number:	21064-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/30/2023 11:03:16AM

#### S3-Surface E303077-11

		E303077-11					
Austra	Result	Reporting Limit	Dil		D	A I	Notes
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	IY		Batch: 2312029
Benzene	ND	0.0250		1	03/22/23	03/23/23	
Ethylbenzene	0.198	0.0250		1	03/22/23	03/23/23	
Toluene	0.0425	0.0250		1	03/22/23	03/23/23	
o-Xylene	1.03	0.0250		1	03/22/23	03/23/23	
p,m-Xylene	1.16	0.0500		1	03/22/23	03/23/23	
Total Xylenes	2.19	0.0250		1	03/22/23	03/23/23	
Surrogate: Bromofluorobenzene		92.4 %	70-130		03/22/23	03/23/23	
Surrogate: 1,2-Dichloroethane-d4		97.4 %	70-130		03/22/23	03/23/23	
Surrogate: Toluene-d8		104 %	70-130		03/22/23	03/23/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	IY		Batch: 2312029
Gasoline Range Organics (C6-C10)	62.7	20.0		1	03/22/23	03/23/23	
Surrogate: Bromofluorobenzene		92.4 %	70-130		03/22/23	03/23/23	
Surrogate: 1,2-Dichloroethane-d4		97.4 %	70-130		03/22/23	03/23/23	
Surrogate: Toluene-d8		104 %	70-130		03/22/23	03/23/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	JL		Batch: 2312040
Diesel Range Organics (C10-C28)	2370	125		5	03/22/23	03/23/23	
Oil Range Organics (C28-C36)	1040	250		5	03/22/23	03/23/23	
Surrogate: n-Nonane	·	102 %	50-200		03/22/23	03/23/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	BA		Batch: 2312033
Chloride	62.2	20.0		1	03/22/23	03/22/23	



Pima Environmental Services-Carlsbad	Project Name:	Liza Jane Federal #1	
PO Box 247	Project Number:	21064-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/30/2023 11:03:16AM

#### S3-1'

		E303077-12					
		Reporting					
Analyte	Result	Limit	Dilu	ıtion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: I	Y		Batch: 2312029
Benzene	ND	0.0250	1	1	03/22/23	03/23/23	
Ethylbenzene	ND	0.0250	1	1	03/22/23	03/23/23	
Toluene	ND	0.0250	1	1	03/22/23	03/23/23	
o-Xylene	ND	0.0250	1	1	03/22/23	03/23/23	
p,m-Xylene	ND	0.0500	1	1	03/22/23	03/23/23	
Total Xylenes	ND	0.0250	1	1	03/22/23	03/23/23	
Surrogate: Bromofluorobenzene		92.4 %	70-130		03/22/23	03/23/23	
Surrogate: 1,2-Dichloroethane-d4		96.1 %	70-130		03/22/23	03/23/23	
Surrogate: Toluene-d8		104 %	70-130		03/22/23	03/23/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	mg/kg		Y	Batch: 2312029	
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	03/22/23	03/23/23	
Surrogate: Bromofluorobenzene		92.4 %	70-130		03/22/23	03/23/23	
Surrogate: 1,2-Dichloroethane-d4		96.1 %	70-130		03/22/23	03/23/23	
Surrogate: Toluene-d8		104 %	70-130		03/22/23	03/23/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: J	L		Batch: 2312040
Diesel Range Organics (C10-C28)	71.2	25.0	1	1	03/22/23	03/23/23	
Oil Range Organics (C28-C36)	ND	50.0	1	1	03/22/23	03/23/23	
Surrogate: n-Nonane		87.5 %	50-200		03/22/23	03/23/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: E	BA		Batch: 2312033
Chloride	58.1	20.0	1	1	03/22/23	03/22/23	<del></del>



Pima Environmental Services-Carlsbad	Project Name:	Liza Jane Federal #1	
PO Box 247	Project Number:	21064-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/30/2023 11:03:16AM

#### S3-2' E303077-13

		200001110					
Analyte	Result	Reporting Limit		lution	Prepared	Analyzed	Notes
			Di			Allalyzed	
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst			Batch: 2312029
Benzene	ND	0.0250		1	03/22/23	03/23/23	
Ethylbenzene	ND	0.0250		1	03/22/23	03/23/23	
Toluene	ND	0.0250		1	03/22/23	03/23/23	
o-Xylene	ND	0.0250		1	03/22/23	03/23/23	
p,m-Xylene	ND	0.0500		1	03/22/23	03/23/23	
Total Xylenes	ND	0.0250		1	03/22/23	03/23/23	
Surrogate: Bromofluorobenzene		96.6 %	70-130		03/22/23	03/23/23	
Surrogate: 1,2-Dichloroethane-d4		96.3 %	70-130		03/22/23	03/23/23	
Surrogate: Toluene-d8		99.9 %	70-130		03/22/23	03/23/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: IY		Batch: 2312029
Gasoline Range Organics (C6-C10)	ND	20.0		1	03/22/23	03/23/23	
Surrogate: Bromofluorobenzene		96.6 %	70-130		03/22/23	03/23/23	
Surrogate: 1,2-Dichloroethane-d4		96.3 %	70-130		03/22/23	03/23/23	
Surrogate: Toluene-d8		99.9 %	70-130		03/22/23	03/23/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: ЛL		Batch: 2312040
Diesel Range Organics (C10-C28)	56.4	25.0		1	03/22/23	03/23/23	
Oil Range Organics (C28-C36)	ND	50.0		1	03/22/23	03/23/23	
Surrogate: n-Nonane		71.4 %	50-200		03/22/23	03/23/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: BA		Batch: 2312033
Chloride	61.6	20.0		1	03/22/23	03/22/23	



Pima Environmental Services-Carlsbad	Project Name:	Liza Jane Federal #1	
PO Box 247	Project Number:	21064-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/30/2023 11:03:16AM

S3-3'

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		Reporting					
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: 1	IY		Batch: 2312029
Benzene	ND	0.0250	1		03/22/23	03/23/23	
Ethylbenzene	ND	0.0250	1		03/22/23	03/23/23	
Toluene	ND	0.0250	1		03/22/23	03/23/23	
o-Xylene	ND	0.0250	1		03/22/23	03/23/23	
p,m-Xylene	ND	0.0500	1		03/22/23	03/23/23	
Total Xylenes	ND	0.0250	1	l	03/22/23	03/23/23	
Surrogate: Bromofluorobenzene		95.5 %	70-130		03/22/23	03/23/23	
Surrogate: 1,2-Dichloroethane-d4		97.2 %	70-130		03/22/23	03/23/23	
Surrogate: Toluene-d8		99.0 %	70-130		03/22/23	03/23/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	-	Analyst: 1	IY		Batch: 2312029
Gasoline Range Organics (C6-C10)	ND	20.0	1	l	03/22/23	03/23/23	
Surrogate: Bromofluorobenzene		95.5 %	70-130		03/22/23	03/23/23	
Surrogate: 1,2-Dichloroethane-d4		97.2 %	70-130		03/22/23	03/23/23	
Surrogate: Toluene-d8		99.0 %	70-130		03/22/23	03/23/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: .	JL		Batch: 2312040
Diesel Range Organics (C10-C28)	ND	25.0	1		03/22/23	03/23/23	
Oil Range Organics (C28-C36)	ND	50.0	1		03/22/23	03/23/23	
Surrogate: n-Nonane		84.9 %	50-200		03/22/23	03/23/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: 1	BA		Batch: 2312033

Pima Environmental Services-Carlsbad	Project Name:	Liza Jane Federal #1	
PO Box 247	Project Number:	21064-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/30/2023 11:03:16AM

#### S3-4'

#### E303077-15

		Reporting					
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	1	Analyst: IY	7		Batch: 2312029
Benzene	ND	0.0250	1		03/22/23	03/23/23	
Ethylbenzene	ND	0.0250	1		03/22/23	03/23/23	
Toluene	ND	0.0250	1		03/22/23	03/23/23	
o-Xylene	ND	0.0250	1		03/22/23	03/23/23	
p,m-Xylene	ND	0.0500	1		03/22/23	03/23/23	
Total Xylenes	ND	0.0250	1		03/22/23	03/23/23	
Surrogate: Bromofluorobenzene		95.8 %	70-130		03/22/23	03/23/23	
Surrogate: 1,2-Dichloroethane-d4		97.1 %	70-130		03/22/23	03/23/23	
Surrogate: Toluene-d8		101 %	70-130		03/22/23	03/23/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	1	Analyst: IY	7		Batch: 2312029
Gasoline Range Organics (C6-C10)	ND	20.0	1		03/22/23	03/23/23	
Surrogate: Bromofluorobenzene		95.8 %	70-130		03/22/23	03/23/23	
Surrogate: 1,2-Dichloroethane-d4		97.1 %	70-130		03/22/23	03/23/23	
Surrogate: Toluene-d8		101 %	70-130		03/22/23	03/23/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	1	Analyst: JI			Batch: 2312040
Diesel Range Organics (C10-C28)	ND	25.0	1		03/22/23	03/23/23	
Oil Range Organics (C28-C36)	ND	50.0	1		03/22/23	03/23/23	
Surrogate: n-Nonane		91.5 %	50-200		03/22/23	03/23/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	1	Analyst: B	A		Batch: 2312033

Pima Environmental Services-Carlsbad	Project Name:	Liza Jane Federal #1	
PO Box 247	Project Number:	21064-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/30/2023 11:03:16AM

#### S4-Surface E303077-16

		Reporting					
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	I	Analyst: IY			Batch: 2312029
Benzene	ND	0.0250	1	1	03/22/23	03/23/23	
Ethylbenzene	ND	0.0250	1	l	03/22/23	03/23/23	
Toluene	ND	0.0250	1	l	03/22/23	03/23/23	
o-Xylene	0.0475	0.0250	1	l	03/22/23	03/23/23	
p,m-Xylene	ND	0.0500	1	l	03/22/23	03/23/23	
Total Xylenes	0.0475	0.0250	1	[	03/22/23	03/23/23	
Surrogate: Bromofluorobenzene		96.1 %	70-130		03/22/23	03/23/23	
Surrogate: 1,2-Dichloroethane-d4		96.0 %	70-130		03/22/23	03/23/23	
Surrogate: Toluene-d8		101 %	70-130		03/22/23	03/23/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	1	Analyst: IY			Batch: 2312029
Gasoline Range Organics (C6-C10)	ND	20.0	1	l	03/22/23	03/23/23	
Surrogate: Bromofluorobenzene		96.1 %	70-130		03/22/23	03/23/23	
Surrogate: 1,2-Dichloroethane-d4		96.0 %	70-130		03/22/23	03/23/23	
Surrogate: Toluene-d8		101 %	70-130		03/22/23	03/23/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	1	Analyst: JL			Batch: 2312040
Diesel Range Organics (C10-C28)	882	25.0	1	l	03/22/23	03/23/23	
Oil Range Organics (C28-C36)	437	50.0	1	1	03/22/23	03/23/23	
Surrogate: n-Nonane		93.5 %	50-200		03/22/23	03/23/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	1	Analyst: BA	1		Batch: 2312033
Chloride	1770	20.0	1	1	03/22/23	03/22/23	



Pima Environmental Services-Carlsbad	Project Name:	Liza Jane Federal #1	
PO Box 247	Project Number:	21064-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/30/2023 11:03:16AM

#### S4-1' E303077-17

		Reporting					
Analyte	Result	Limit	Dilut	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	1	Analyst: IY			Batch: 2312029
Benzene	ND	0.0250	1	1	03/22/23	03/23/23	
Ethylbenzene	ND	0.0250	1	[	03/22/23	03/23/23	
Toluene	ND	0.0250	1	l	03/22/23	03/23/23	
o-Xylene	ND	0.0250	1	l	03/22/23	03/23/23	
p,m-Xylene	ND	0.0500	1	l	03/22/23	03/23/23	
Total Xylenes	ND	0.0250	1	l 	03/22/23	03/23/23	
Surrogate: Bromofluorobenzene		91.4 %	70-130		03/22/23	03/23/23	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130		03/22/23	03/23/23	
Surrogate: Toluene-d8		103 %	70-130		03/22/23	03/23/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	I	Analyst: IY			Batch: 2312029
Gasoline Range Organics (C6-C10)	ND	20.0	1	l	03/22/23	03/23/23	
Surrogate: Bromofluorobenzene		91.4 %	70-130		03/22/23	03/23/23	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130		03/22/23	03/23/23	
Surrogate: Toluene-d8		103 %	70-130		03/22/23	03/23/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	1	Analyst: JL			Batch: 2312040
Diesel Range Organics (C10-C28)	ND	25.0	1	1	03/22/23	03/23/23	
Oil Range Organics (C28-C36)	ND	50.0	1	l	03/22/23	03/23/23	
Surrogate: n-Nonane		80.8 %	50-200		03/22/23	03/23/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	1	Analyst: BA	Λ		Batch: 2312033
Allions by ETA 500.0/7030A	88	88					



Pima Environmental Services-Carlsbad	Project Name:	Liza Jane Federal #1	
PO Box 247	Project Number:	21064-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/30/2023 11:03:16AM

#### S4-2' E303077-18

		200001110					
Analyte	Result	Reporting Limit		ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	•		Batch: 2312029
Benzene	ND	0.0250		1	03/22/23	03/23/23	Buten: 2512029
Ethylbenzene	ND	0.0250		1	03/22/23	03/23/23	
Toluene	ND	0.0250		1	03/22/23	03/23/23	
o-Xylene	ND	0.0250		1	03/22/23	03/23/23	
p,m-Xylene	ND	0.0500		1	03/22/23	03/23/23	
Total Xylenes	ND	0.0250		1	03/22/23	03/23/23	
Surrogate: Bromofluorobenzene		95.7 %	70-130		03/22/23	03/23/23	
Surrogate: 1,2-Dichloroethane-d4		96.7 %	70-130		03/22/23	03/23/23	
Surrogate: Toluene-d8		99.7 %	70-130		03/22/23	03/23/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	IY		Batch: 2312029
Gasoline Range Organics (C6-C10)	ND	20.0		1	03/22/23	03/23/23	
Surrogate: Bromofluorobenzene		95.7 %	70-130		03/22/23	03/23/23	
Surrogate: 1,2-Dichloroethane-d4		96.7 %	70-130		03/22/23	03/23/23	
Surrogate: Toluene-d8		99.7 %	70-130		03/22/23	03/23/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	JL		Batch: 2312040
Diesel Range Organics (C10-C28)	83.9	25.0		1	03/22/23	03/23/23	
Oil Range Organics (C28-C36)	ND	50.0		1	03/22/23	03/23/23	
Surrogate: n-Nonane		86.5 %	50-200		03/22/23	03/23/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	BA		Batch: 2312033
Chloride	59.6	20.0	•	1	03/22/23	03/22/23	



Pima Environmental Services-Carlsbad	Project Name:	Liza Jane Federal #1	
PO Box 247	Project Number:	21064-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/30/2023 11:03:16AM

#### S4-3' E303077-19

		Reporting					
Analyte	Result	Limit	Dilı	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2312029
Benzene	ND	0.0250		1	03/22/23	03/23/23	
Ethylbenzene	ND	0.0250		1	03/22/23	03/23/23	
Toluene	ND	0.0250		1	03/22/23	03/23/23	
o-Xylene	ND	0.0250		1	03/22/23	03/23/23	
p,m-Xylene	ND	0.0500		1	03/22/23	03/23/23	
Total Xylenes	ND	0.0250	·	1	03/22/23	03/23/23	
Surrogate: Bromofluorobenzene		92.9 %	70-130		03/22/23	03/23/23	
Surrogate: 1,2-Dichloroethane-d4		98.2 %	70-130		03/22/23	03/23/23	
Surrogate: Toluene-d8		104 %	70-130		03/22/23	03/23/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2312029
Gasoline Range Organics (C6-C10)	ND	20.0		1	03/22/23	03/23/23	
Surrogate: Bromofluorobenzene		92.9 %	70-130		03/22/23	03/23/23	
Surrogate: 1,2-Dichloroethane-d4		98.2 %	70-130		03/22/23	03/23/23	
Surrogate: Toluene-d8		104 %	70-130		03/22/23	03/23/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	ЛL		Batch: 2312040
Diesel Range Organics (C10-C28)	47.2	25.0		1	03/22/23	03/23/23	
Oil Range Organics (C28-C36)	ND	50.0		1	03/22/23	03/23/23	
Surrogate: n-Nonane		82.4 %	50-200		03/22/23	03/23/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	BA		Batch: 2312033
Chloride	97.6	20.0		1	03/22/23	03/22/23	



Pima Environmental Services-Carlsbad	Project Name:	Liza Jane Federal #1	
PO Box 247	Project Number:	21064-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/30/2023 11:03:16AM

#### S4-4'

		E303077-20					
Reporting							
Analyte	Result	Limit	Dilu	ıtion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2312029
Benzene	ND	0.0250	1	1	03/22/23	03/23/23	
Ethylbenzene	ND	0.0250	1	1	03/22/23	03/23/23	
Toluene	ND	0.0250	1	1	03/22/23	03/23/23	
o-Xylene	ND	0.0250	1	1	03/22/23	03/23/23	
p,m-Xylene	ND	0.0500	1	1	03/22/23	03/23/23	
Total Xylenes	ND	0.0250	1	1	03/22/23	03/23/23	
Surrogate: Bromofluorobenzene		95.6 %	70-130		03/22/23	03/23/23	
Surrogate: 1,2-Dichloroethane-d4		99.5 %	70-130		03/22/23	03/23/23	
Surrogate: Toluene-d8		100 %	70-130		03/22/23	03/23/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2312029
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	03/22/23	03/23/23	
Surrogate: Bromofluorobenzene		95.6 %	70-130		03/22/23	03/23/23	
Surrogate: 1,2-Dichloroethane-d4		99.5 %	70-130		03/22/23	03/23/23	
Surrogate: Toluene-d8		100 %	70-130		03/22/23	03/23/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	ЛL		Batch: 2312040
Diesel Range Organics (C10-C28)	ND	25.0	1	1	03/22/23	03/23/23	
Oil Range Organics (C28-C36)	ND	50.0	1	1	03/22/23	03/23/23	
Surrogate: n-Nonane		91.3 %	50-200		03/22/23	03/23/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	BA		Batch: 2312033
Chloride	ND	20.0	1	1	03/22/23	03/22/23	



Pima Environmental Services-Carlsbad	Project Name:	Liza Jane Federal #1	
PO Box 247	Project Number:	21064-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/30/2023 11:03:16AM

#### SW1

		E303077-21					
		Reporting					
Analyte	Result	Limit	Dilu	ıtion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: S	L		Batch: 2312028
Benzene	ND	0.0250	1	1	03/22/23	03/22/23	
Ethylbenzene	ND	0.0250	1	1	03/22/23	03/22/23	
Toluene	ND	0.0250	1	1	03/22/23	03/22/23	
o-Xylene	ND	0.0250	1	1	03/22/23	03/22/23	
p,m-Xylene	ND	0.0500	1	1	03/22/23	03/22/23	
Total Xylenes	ND	0.0250	1	1	03/22/23	03/22/23	
Surrogate: Bromofluorobenzene		93.3 %	70-130		03/22/23	03/22/23	
Surrogate: 1,2-Dichloroethane-d4		99.4 %	70-130		03/22/23	03/22/23	
Surrogate: Toluene-d8		103 %	70-130		03/22/23	03/22/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: S	L		Batch: 2312028
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	03/22/23	03/22/23	
Surrogate: Bromofluorobenzene		93.3 %	70-130		03/22/23	03/22/23	
Surrogate: 1,2-Dichloroethane-d4		99.4 %	70-130		03/22/23	03/22/23	
Surrogate: Toluene-d8		103 %	70-130		03/22/23	03/22/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: K	XM		Batch: 2312041
Diesel Range Organics (C10-C28)	ND	25.0	1	1	03/22/23	03/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	1	03/22/23	03/22/23	
Surrogate: n-Nonane		93.6 %	50-200		03/22/23	03/22/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: B	BA		Batch: 2312035

20.0

03/22/23

03/23/23

ND



Chloride

Pima Environmental Services-Carlsbad	Project Name:	Liza Jane Federal #1	
PO Box 247	Project Number:	21064-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/30/2023 11:03:16AM

#### SW2 E303077-22

		Reporting					
Analyte	Result	Limit	Dilu	ıtion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	SL		Batch: 2312028
Benzene	ND	0.0250	1	1	03/22/23	03/22/23	
Ethylbenzene	ND	0.0250	1	1	03/22/23	03/22/23	
Toluene	ND	0.0250	1	1	03/22/23	03/22/23	
o-Xylene	ND	0.0250	1	1	03/22/23	03/22/23	
p,m-Xylene	ND	0.0500	1	1	03/22/23	03/22/23	
Total Xylenes	ND	0.0250	1	1	03/22/23	03/22/23	
Surrogate: Bromofluorobenzene		95.9 %	70-130		03/22/23	03/22/23	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		03/22/23	03/22/23	
Surrogate: Toluene-d8		102 %	70-130		03/22/23	03/22/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	SL		Batch: 2312028
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	03/22/23	03/22/23	
Surrogate: Bromofluorobenzene		95.9 %	70-130		03/22/23	03/22/23	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		03/22/23	03/22/23	
Surrogate: Toluene-d8		102 %	70-130		03/22/23	03/22/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	KM		Batch: 2312041
Diesel Range Organics (C10-C28)	ND	25.0	1	1	03/22/23	03/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	1	03/22/23	03/22/23	
Surrogate: n-Nonane		95.2 %	50-200		03/22/23	03/22/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	BA		Batch: 2312035
					03/22/23	03/23/23	



Pima Environmental Services-Carlsbad	Project Name:	Liza Jane Federal #1	
PO Box 247	Project Number:	21064-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/30/2023 11:03:16AM

#### SW3

E303077-23				
	E-2	Λ2	$\alpha \tau \tau$	1 22
	P7	11.7	. ,	-/

		Reporting				
Analyte	Result	Limit	Dilut	ion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Α	Analyst: SL		Batch: 2312028
Benzene	ND	0.0250	1	03/22/23	03/22/23	
Ethylbenzene	ND	0.0250	1	03/22/23	03/22/23	
Toluene	ND	0.0250	1	03/22/23	03/22/23	
o-Xylene	ND	0.0250	1	03/22/23	03/22/23	
p,m-Xylene	ND	0.0500	1	03/22/23	03/22/23	
Total Xylenes	ND	0.0250	1	03/22/23	03/22/23	
Surrogate: Bromofluorobenzene	·	94.5 %	70-130	03/22/23	03/22/23	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	03/22/23	03/22/23	
Surrogate: Toluene-d8		102 %	70-130	03/22/23	03/22/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Α	Analyst: SL		Batch: 2312028
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/22/23	03/22/23	
Surrogate: Bromofluorobenzene		94.5 %	70-130	03/22/23	03/22/23	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	03/22/23	03/22/23	
Surrogate: Toluene-d8		102 %	70-130	03/22/23	03/22/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Α	Analyst: KM		Batch: 2312041
Diesel Range Organics (C10-C28)	ND	25.0	1	03/22/23	03/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	03/22/23	03/22/23	
Surrogate: n-Nonane		90.2 %	50-200	03/22/23	03/22/23	
				1 ( D.		D . 1 2212025
Anions by EPA 300.0/9056A	mg/kg	mg/kg	P	Analyst: BA		Batch: 2312035



Pima Environmental Services-Carlsbad	Project Name:	Liza Jane Federal #1	
PO Box 247	Project Number:	21064-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/30/2023 11:03:16AM

#### SW4

#### E303077-24

		Reporting				
Analyte	Result	Limit	Dilut	ion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: SL		Batch: 2312028
Benzene	ND	0.0250	1	03/22/23	03/22/23	
Ethylbenzene	ND	0.0250	1	03/22/23	03/22/23	
Toluene	ND	0.0250	1	03/22/23	03/22/23	
o-Xylene	ND	0.0250	1	03/22/23	03/22/23	
p,m-Xylene	ND	0.0500	1	03/22/23	03/22/23	
Total Xylenes	ND	0.0250	1	03/22/23	03/22/23	
Surrogate: Bromofluorobenzene		94.7 %	70-130	03/22/23	03/22/23	
Surrogate: 1,2-Dichloroethane-d4		99.9 %	70-130	03/22/23	03/22/23	
Surrogate: Toluene-d8		103 %	70-130	03/22/23	03/22/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	Analyst: SL		Batch: 2312028
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/22/23	03/22/23	
Surrogate: Bromofluorobenzene		94.7 %	70-130	03/22/23	03/22/23	
Surrogate: 1,2-Dichloroethane-d4		99.9 %	70-130	03/22/23	03/22/23	
Surrogate: Toluene-d8		103 %	70-130	03/22/23	03/22/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: KM		Batch: 2312041
Diesel Range Organics (C10-C28)	ND	25.0	1	03/22/23	03/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	03/22/23	03/22/23	
Surrogate: n-Nonane		94.5 %	50-200	03/22/23	03/22/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: BA		Batch: 2312035
Amons by EPA 500.0/9050A	<u> </u>	<u> </u>				



Liza Jane Federal #1 Pima Environmental Services-Carlsbad Project Name: Reported: Project Number: PO Box 247 21064-0001 Plains TX, 79355-0247 Project Manager: Tom Bynum 3/30/2023 11:03:16AM Volatile Organic Compounds by EPA 8260B Analyst: SL Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % Notes Blank (2312028-BLK1) Prepared: 03/22/23 Analyzed: 03/22/23 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 ND 0.0250 Total Xylenes Surrogate: Bromofluorobenzene 0.470 0.500 93.9 70-130 Surrogate: 1,2-Dichloroethane-d4 0.491 0.500 98.1 70-130 0.500 102 70-130 Surrogate: Toluene-d8 0.509 LCS (2312028-BS1) Prepared: 03/22/23 Analyzed: 03/23/23 2.09 0.0250 2.50 83.4 70-130 Benzene 2.50 88.0 70-130 2.20 Ethylbenzene 0.0250 2.18 0.0250 2.50 87.1 70-130 90.1 70-130 2.25 0.0250 2.50 o-Xylene 4.46 5.00 89.3 70-130 p,m-Xylene 0.0500 6.72 0.0250 7.50 89.6 70-130 Total Xylenes Surrogate: Bromofluorobenzene 0.500 0.500 100 70-130 0.500 93.8 70-130 Surrogate: 1,2-Dichloroethane-d4 0.469 70-130 Surrogate: Toluene-d8 0.500 0.513 Matrix Spike (2312028-MS1) Source: E303073-21 Prepared: 03/22/23 Analyzed: 03/22/23 48-131 2.09 0.0250 2.50 ND 83.8 45-135 Ethylbenzene 2.18 0.0250 2.50 ND 87.2 48-130 Toluene 2.18 0.0250 2.50 ND 87.0 2.25 0.0250 2.50 ND 90.0 43-135 o-Xylene 4.44 ND 88.8 43-135 p,m-Xylene 0.0500 5.00 Total Xylenes 6.69 0.0250 7.50 ND 89.2 43-135 Surrogate: Bromofluorobenzene 0.502 0.500 100 70-130 0.500 97.9 70-130 Surrogate: 1,2-Dichloroethane-d4 0.490 0.500 70-130 0.514 Surrogate: Toluene-d8 Matrix Spike Dup (2312028-MSD1) Source: E303073-21 Prepared: 03/22/23 Analyzed: 03/22/23 2.15 0.0250 2.50 ND 86.0 48-131 2.69 23 2.27 0.0250 2.50 ND 90.7 45-135 3.98 27 Ethylbenzene ND 48-130 3.37 24 2.25 2.50 90.0 Toluene 0.0250 o-Xylene 2.33 0.0250 2.50 ND 93.1 43-135 3.41 27 5.00 ND 43-135 27 4.61 92.2 3.69 p,m-Xylene 0.0500 27 6.94 0.0250 7.50 ND 92.5 43-135 3.60 Total Xylenes Surrogate: Bromofluorobenzene 0.504 0.500 101 70-130



0.500

0.500

0.497

0.514

99.4

70-130

70-130

Surrogate: 1,2-Dichloroethane-d4

Surrogate: Toluene-d8

Liza Jane Federal #1 Pima Environmental Services-Carlsbad Project Name: Reported: Project Number: PO Box 247 21064-0001 Plains TX, 79355-0247 Project Manager: Tom Bynum 3/30/2023 11:03:16AM **Volatile Organic Compounds by EPA 8260B** Analyst: IY Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % Notes Blank (2312029-BLK1) Prepared: 03/22/23 Analyzed: 03/23/23 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 ND 0.0250 Total Xylenes Surrogate: Bromofluorobenzene 0.465 0.500 93.0 70-130 Surrogate: 1,2-Dichloroethane-d4 0.462 0.500 92.4 70-130 0.500 99.5 70-130 Surrogate: Toluene-d8 0.498 LCS (2312029-BS1) Prepared: 03/22/23 Analyzed: 03/23/23 2.39 0.0250 2.50 95.6 70-130 Benzene 2.50 94.2 70-130 2.36 Ethylbenzene 0.0250 2.45 0.0250 2.50 97.8 70-130 2.50 99.8 70-130 0.0250 2.50 o-Xylene 4.78 5.00 95.6 70-130 p,m-Xylene 0.0500 7.28 0.0250 7.50 97.0 70-130 Total Xylenes Surrogate: Bromofluorobenzene 0.467 0.500 93.3 70-130 0.500 92.2 70-130 Surrogate: 1,2-Dichloroethane-d4 0.461 70-130 Surrogate: Toluene-d8 0.500 0.511 Matrix Spike (2312029-MS1) Source: E303077-01 Prepared: 03/22/23 Analyzed: 03/23/23 2.47 0.0250 2.50 ND 98.6 48-131 45-135 Ethylbenzene 2.47 0.0250 2.50 ND 98.7 48-130 Toluene 2.55 0.0250 2.50 ND 102 0.0250 2.50 ND 104 43-135 o-Xylene ND 99.9 43-135 p,m-Xylene 5.00 0.0500 5.00 Total Xylenes 7.61 0.0250 7.50 ND 101 43-135 95.2 Surrogate: Bromofluorobenzene 0.476 0.500 70-130 0.471 0.500 94.1 70-130 Surrogate: 1,2-Dichloroethane-d4 0.500 70-130 0.510 Surrogate: Toluene-d8 Matrix Spike Dup (2312029-MSD1) Source: E303077-01 Prepared: 03/22/23 Analyzed: 03/23/23 2.39 0.0250 2.50 ND 95.7 48-131 3.07 23 2.29 0.0250 2.50 ND 91.6 45-135 7.50 27 Ethylbenzene ND 94.5 48-130 7.57 24 2.36 2.50 Toluene 0.0250 o-Xylene 2.44 0.0250 2.50 ND 97.5 43-135 6.93 27 5.00 ND 93.0 43-135 27 4.65 0.0500 7.21 p,m-Xylene 27 7.09 0.0250 7.50 ND 94.5 43-135 7.11 Total Xylenes Surrogate: Bromofluorobenzene 0.472 0.500 94.4 70-130



0.500

0.500

0.458

0.501

91.5

100

70-130

70-130

Surrogate: 1,2-Dichloroethane-d4

Surrogate: Toluene-d8

Liza Jane Federal #1 Pima Environmental Services-Carlsbad Project Name: Reported: PO Box 247 Project Number: 21064-0001 Plains TX, 79355-0247 Project Manager: Tom Bynum 3/30/2023 11:03:16AM

Nonhalogenated Org	ganics by EPA	8015D - GRO
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Analyst: SL

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

Analyte	Result	Limit	Level	Result	Rec	Limits	RPD	Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2312028-BLK1)							Prepared: 03	3/22/23 Anal	yzed: 03/22/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.470		0.500		93.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.491		0.500		98.1	70-130			
Surrogate: Toluene-d8	0.509		0.500		102	70-130			
LCS (2312028-BS2)							Prepared: 03	3/22/23 Anal	lyzed: 03/22/23
Gasoline Range Organics (C6-C10)	48.2	20.0	50.0		96.3	70-130			
Surrogate: Bromofluorobenzene	0.479		0.500		95.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.484		0.500		96.7	70-130			
Surrogate: Toluene-d8	0.514		0.500		103	70-130			
Matrix Spike (2312028-MS2)				Source:	E303073-2	21	Prepared: 03	3/22/23 Anal	lyzed: 03/22/23
Gasoline Range Organics (C6-C10)	46.0	20.0	50.0	ND	92.1	70-130			
Surrogate: Bromofluorobenzene	0.487		0.500		97.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.490		0.500		98.0	70-130			
Surrogate: Toluene-d8	0.521		0.500		104	70-130			
Matrix Spike Dup (2312028-MSD2)				Source:	E303073-2	21	Prepared: 03	3/22/23 Anal	lyzed: 03/22/23
Gasoline Range Organics (C6-C10)	47.5	20.0	50.0	ND	94.9	70-130	3.02	20	
Surrogate: Bromofluorobenzene	0.485		0.500		97.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.498		0.500		99.6	70-130			
Surrogate: Toluene-d8	0.514		0.500		103	70-130			



#### **QC Summary Data**

Liza Jane Federal #1 Pima Environmental Services-Carlsbad Project Name: Reported: PO Box 247 Project Number: 21064-0001 Plains TX, 79355-0247 Project Manager: Tom Bynum 3/30/2023 11:03:16AM

Nonhalogenated	Organics l	by EPA	8015D -	GRO

Analyst: IY

Analyte Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec	Rec Limits %	RPD %	RPD Limit %	Notes	
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	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2312029-BLK1)							Prepared: 0	3/22/23	Analyzed: 03/23/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.465		0.500		93.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.462		0.500		92.4	70-130			
Surrogate: Toluene-d8	0.498		0.500		99.5	70-130			
LCS (2312029-BS2)							Prepared: 0	3/22/23	Analyzed: 03/23/23
Gasoline Range Organics (C6-C10)	51.0	20.0	50.0		102	70-130			
Surrogate: Bromofluorobenzene	0.461		0.500		92.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.462		0.500		92.3	70-130			
Surrogate: Toluene-d8	0.515		0.500		103	70-130			
Matrix Spike (2312029-MS2)				Source:	E303077-0	)1	Prepared: 0	3/22/23	Analyzed: 03/23/23
Gasoline Range Organics (C6-C10)	54.4	20.0	50.0	ND	109	70-130			
Surrogate: Bromofluorobenzene	0.455		0.500		90.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.460		0.500		92.0	70-130			
Surrogate: Toluene-d8	0.526		0.500		105	70-130			
Matrix Spike Dup (2312029-MSD2)				Source:	E303077-0	)1	Prepared: 0	3/22/23	Analyzed: 03/23/23
Gasoline Range Organics (C6-C10)		20.0	50.0	ND	109	70-130	0.319	20	
Gasonne Range Organics (Co-C10)	54.3	20.0	20.0						
Surrogate: Bromofluorobenzene	0.460	20.0	0.500		92.0	70-130			
		20.0			92.0 92.7	70-130 70-130			



Pima Environmental Services-Carlsbad	Project Name:	Liza Jane Federal #1	Reported:
PO Box 247	Project Number:	21064-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/30/2023 11:03:16AM

Plains TX, 79355-0247		Project Manage	r: To	m Bynum					3/30/2023 11:03:16Al				
Nonhalogenated Organics by EPA 8015D - DRO/ORO Analys													
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit					
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes				
Blank (2312040-BLK1)						nalyzed: 03/22/23							
riesel Range Organics (C10-C28)	ND	25.0											
til Range Organics (C28-C36)	ND	50.0											
urrogate: n-Nonane	41.5		50.0		83.1	50-200							
.CS (2312040-BS1)								Prepared: 03/22/23 Analyzed: 03/22/23					
riesel Range Organics (C10-C28)	216	25.0	250		86.4	38-132							
urrogate: n-Nonane	41.9		50.0		83.8	50-200							
Aatrix Spike (2312040-MS1)				Source: E303077-01			Prepared: 03/22/23 Analyzed: 03/22/23						
riesel Range Organics (C10-C28)	260	25.0	250	ND	104	38-132							
urrogate: n-Nonane	39.1		50.0		78.3	50-200							
Matrix Spike Dup (2312040-MSD1)				Source:	Source: E303077-01			Prepared: 03/22/23 Analyzed: 03/22/23					
tiesel Range Organics (C10-C28)	263	25.0	250	ND	105	38-132	1.35	20					



Pima Environmental Services-CarlsbadProject Name:Liza Jane Federal #1Reported:PO Box 247Project Number:21064-0001Plains TX, 79355-0247Project Manager:Tom Bynum3/30/2023 11:03:16AM

Plains TX, 79355-0247		Project Manager	r: To	m Bynum					3/30/2023 11:03:16AN			
Nonhalogenated Organics by EPA 8015D - DRO/ORO Analyst												
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit				
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes			
Blank (2312041-BLK1)						3/22/23 A	nalyzed: 03/22/23					
biesel Range Organics (C10-C28)	ND	25.0										
vil Range Organics (C28-C36)	ND	50.0										
urrogate: n-Nonane	49.6		50.0		99.2	50-200						
CS (2312041-BS1)							Prepared: 0	3/22/23 A	nalyzed: 03/22/23			
viesel Range Organics (C10-C28)	240	25.0	250		96.0	38-132						
urrogate: n-Nonane	39.6		50.0		79.2	50-200						
Matrix Spike (2312041-MS1)				Source: E303075-01			Prepared: 03/22/23 Analyzed: 03/22/23					
riesel Range Organics (C10-C28)	230	25.0	250	ND	92.1	38-132						
urrogate: n-Nonane	36.2		50.0		72.4	50-200						
Matrix Spike Dup (2312041-MSD1)				Source:	Source: E303075-01			Prepared: 03/22/23 Analyzed: 03/22/23				
tiesel Range Organics (C10-C28)	222	25.0	250	ND	88.9	38-132	3.62	20				
urrogate: n-Nonane	36.1		50.0		72.3	50-200						



Matrix Spike Dup (2312033-MSD1)

Chloride

312

# **QC Summary Data**

Pima Environmental Services-Carlsbad PO Box 247	Project Name: Project Number:	Liza Jane Federal #1 21064-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/30/2023 11:03:16AM

		by EPA 3	00.0/9056 <i>A</i>	1	Analyst: BA				
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits	RPD %	RPD Limit %	Notes
Blank (2312033-BLK1)							Prepared: 0	3/22/23 An	alyzed: 03/22/23
Chloride	ND	20.0							
LCS (2312033-BS1)							Prepared: 0	3/22/23 An	alyzed: 03/22/23
Chloride	250	20.0	250		100	90-110			
Matrix Spike (2312033-MS1)				Source:	E303077-	01	Prepared: 0	3/22/23 An	alyzed: 03/22/23
Chloride	306	20.0	250	52.2	101	80-120			

250

20.0

Source: E303077-01

104

80-120

1.97

52.2

Prepared: 03/22/23 Analyzed: 03/22/23

20

Matrix Spike Dup (2312035-MSD1)

Chloride

### **QC Summary Data**

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247		Project Name: Project Number: Project Manager	2	Liza Jane Feder 21064-0001 Tom Bynum	ral #1			3	Reported: /30/2023 11:03:16AM
		Anions	by EPA	300.0/9056	4				Analyst: BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2312035-BLK1)							Prepared: 0	3/22/23 An	alyzed: 03/23/23
Chloride	ND	20.0							
LCS (2312035-BS1)							Prepared: 0	3/22/23 An	alyzed: 03/23/23
Chloride	254	20.0	250	·	102	90-110	·	·	
Matrix Spike (2312035-MS1)				Source:	E303077-	21	Prepared: 03	3/22/23 An	alyzed: 03/23/23
Chloride	259	20.0	250	ND	104	80-120			

250

20.0

Source: E303077-21

105

80-120

1.14

#### 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.



Prepared: 03/22/23 Analyzed: 03/23/23

20

### **Definitions and Notes**

Γ	Pima Environmental Services-Carlsbad	Project Name:	Liza Jane Federal #1	
l	PO Box 247	Project Number:	21064-0001	Reported:
l	Plains TX, 79355-0247	Project Manager:	Tom Bynum	03/30/23 11:03

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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



Project	Inform	nation
Client	Dimo	Envir

Chain	of	Custody
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Project Ir	nformation	n				Chain of Custod	y										1	Page	of 3
Client: F	imo Envi	ronmon	tol Consid		Bill To		1		Lal	hile	e Onl		-	r===		TAT		EPA P	ogram
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Report d					Pima Project #		O by	O by	802	3260	010	300	1	NN	¥				
Time	Date	Matrix	No. of	Sample ID		Lab	DRO/ORO by 8015	GRO/DRO by 8015	ВТЕХ Бу 8021	VOC by 8260	Metals 6010	Chloride 300.0		верос	BGDOC			Remarks	TX
Sampled	Sampled		Containers	Sumple 15		Number	DR	G.	18	>	ž	5	-	98	89			-	
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Contract of the contract of th					m aware that tampering with or intentionally		4				Sample packed	s requiring	thermal avg tem	preserva p above	tion must	be received o than 6 °C on s	n ice the day subsequent d	they are sam ays.	pled or received
Relinguish	ed by: (Signa	ature)//	Date	ay be grounds for legal 11-23 Time 11-23	Received by (Signature)	Date	13	Time	30					1	ab Use		1-3	1.00	
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Sample Mat	rix: S - Soil. So	- Solid. Sp -	Sludge A - A	queous. O - Other		Containe	r Type	e: g -	glass,	p - pc	oly/pla	astic, ag	- amb	er gla	ss, v - V	OA	TILL		
Note: Sam	ples are disc	arded 30 d	ays after res	sults are reported un	nless other arrangements are made. Ha	zardous samples wil	l be re	turned	d to clie	ent or	dispos	sed of at	the clie	ent exp	ense. 1	he report	for the an	alysis of th	e above
samples is	applicable o	nly to thos	e samples re	eceived by the labor	atory with this COC. The liability of the la	aboratory is limited t	o the	amour	nt paid	for or	the r	eport.							

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Project Inf	ormation
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Chain of	Custody
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Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID		de de DRO/ORO by 8015	GRO/DRO by 8015	втех by 8021	VOC by 8260	Metals 6010	Chloride 300.0		верос	верос		Remarks	
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ample Matri	x: S - Soil. Sd	- Solid, Sg -	Sludge, A - A	nueous, O - Other	con	tainer Typ	e:g-	glass.	<b>p</b> - p	oly/pla	astic, ag	- amb	er gla	ss, v - V(	DA .		
Note: Samp	les are disca	rded 30 da	ays after res	sults are reported unless other arrangement eceived by the laboratory with this COC. T	s are made. Hazardous sample	es will be re	eturne	ed to cli	ient or	dispos	ed of at	the clie	nt exp	ense. Ti	ne report for the a	nalysis of th	ie above



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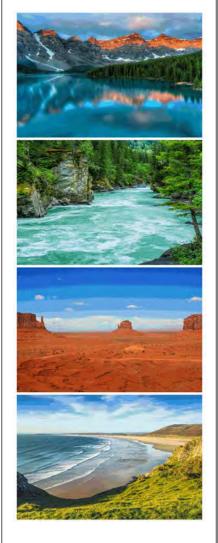
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Report to: Tom Bynum



5796 U.S. Hwy 64 Farmington, NM 87401

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





# envirotech

Practical Solutions for a Better Tomorrow

# **Analytical Report**

Pima Environmental Services-Carlsbad

Project Name: Liza Jane

Work Order: E304039

Job Number: 22093-0001

Received: 4/11/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 4/17/23

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

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

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

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

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

Date Reported: 4/17/23

Tom Bynum PO Box 247 Plains, TX 79355-0247

Project Name: Liza Jane Workorder: E304039

Date Received: 4/11/2023 7:15:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/11/2023 7:15:00AM, under the Project Name: Liza Jane.

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

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

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

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

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881

Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

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**Alexa Michaels** 

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labadmin@envirotech-inc.com

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West Texas Midland/Odessa Area Rayny Hagan

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

### **Table of Contents**

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
CS2	6
CS3	7
CS4	8
CS5	9
CSW1	10
CSW2	11
CSW3	12
CSW4	13
CSW5	14
QC Summary Data	15
QC - Volatile Organic Compounds by EPA8260B	15
QC - Nonhalogenated Organics by EPA 8015D - GRO	16
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	17
QC - Anions by EPA 300.0/9056A	18
Definitions and Notes	19
Chain of Custody etc	20

### Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	Liza Jane	Reported:
PO Box 247	Project Number:	22093-0001	Keporteu:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	04/17/23 09:29

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CS1	E304039-01A	Soil	04/09/23	04/11/23	Glass Jar, 2 oz.
CS2	E304039-02A	Soil	04/09/23	04/11/23	Glass Jar, 2 oz.
CS3	E304039-03A	Soil	04/09/23	04/11/23	Glass Jar, 2 oz.
CS4	E304039-04A	Soil	04/09/23	04/11/23	Glass Jar, 2 oz.
CS5	E304039-05A	Soil	04/09/23	04/11/23	Glass Jar, 2 oz.
CSW1	E304039-06A	Soil	04/09/23	04/11/23	Glass Jar, 2 oz.
CSW2	E304039-07A	Soil	04/09/23	04/11/23	Glass Jar, 2 oz.
CSW3	E304039-08A	Soil	04/09/23	04/11/23	Glass Jar, 2 oz.
CSW4	E304039-09A	Soil	04/09/23	04/11/23	Glass Jar, 2 oz.
CSW5	E304039-10A	Soil	04/09/23	04/11/23	Glass Jar, 2 oz.



Pima Environmental Services-Carlsbad	Project Name:	Liza Jane	
PO Box 247	Project Number:	22093-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	4/17/2023 9:29:41AM

### CS1

	L504057 01					
Result	Reporting Limit	Dilu	ıtion	Prepared	Analyzed	Notes
				•	1 11101) 200	Batch: 2315018
					04/11/23	Batch. 2313016
			1			
ND ND	0.0300		<u> </u>	04/11/23	04/11/23	
	101 %	70-130		04/11/23	04/11/23	
	97.6 %	70-130		04/11/23	04/11/23	
	102 %	70-130		04/11/23	04/11/23	
mg/kg	mg/kg		Analyst: S	SL		Batch: 2315018
ND	20.0	1	[	04/11/23	04/11/23	
	101 %	70-130		04/11/23	04/11/23	
	97.6 %	70-130		04/11/23	04/11/23	
	102 %	70-130		04/11/23	04/11/23	
mg/kg	mg/kg		Analyst: J	TL.		Batch: 2315048
ND	25.0	1		04/11/23	04/12/23	
ND	50.0	1	l	04/11/23	04/12/23	
	87.2 %	50-200		04/11/23	04/12/23	
mg/kg	mg/kg		Analyst: I	BA		Batch: 2315034
ND	20.0	1		04/11/23	04/11/23	
	mg/kg ND mg/kg ND nD mg/kg	Result         Limit           mg/kg         mg/kg           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0500           ND         0.0250           ND         0.0250           I01 %         97.6 %           102 %         mg/kg           ND         20.0           I01 %         97.6 %           102 %         mg/kg           Mg/kg         mg/kg           ND         25.0           ND         50.0           87.2 %         mg/kg           mg/kg         mg/kg	Reporting           Result         Limit         Dilu           mg/kg         mg/kg           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0500           ND         0.0500           ND         0.0250           101 %         70-130           97.6 %         70-130           102 %         70-130           97.6 %         70-130           97.6 %         70-130           102 %         70-130           mg/kg         mg/kg           ND         25.0           ND         50.0           87.2 %         50-200           mg/kg         mg/kg	Reporting           Result         Limit         Dilution           mg/kg         mg/kg         Analyst: \$1.00           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0500         1           ND         0.0250         1           ND         0.0250         1           101%         70-130         70-130           97.6%         70-130         70-130           mg/kg         mg/kg         Analyst: \$1           nD         20.0         1           101%         70-130         70-130           mg/kg         mg/kg         Analyst: \$1           ND         25.0         1           ND         50.0         1           87.2%         50-200           mg/kg         Mg/kg         Analyst: \$1	Reporting           Result         Limit         Dilution         Prepared           mg/kg         Analyst: SL           ND         0.0250         1         04/11/23           ND         0.0250         1         04/11/23           ND         0.0250         1         04/11/23           ND         0.0500         1         04/11/23           ND         0.0250         1         04/11/23           ND         0.0250         1         04/11/23           97.6 %         70-130         04/11/23           97.6 %         70-130         04/11/23           102 %         70-130         04/11/23           101 %         70-130         04/11/23           97.6 %         70-130         04/11/23           102 %         70-130         04/11/23           102 %         70-130         04/11/23           102 %         70-130         04/11/23           102 %         70-130         04/11/23           ND         25.0         1         04/11/23           ND         50.0         1         04/11/23           ND         50.0         1         04/11/23	Reporting         Limit         Dilution         Prepared         Analyzed           mg/kg         mg/kg         Analyst: SL           ND         0.0250         1         04/11/23         04/11/23           ND         0.0250         1         04/11/23         04/11/23           ND         0.0250         1         04/11/23         04/11/23           ND         0.0500         1         04/11/23         04/11/23           ND         0.0250         1         04/11/23         04/11/23           ND         0.0250         1         04/11/23         04/11/23           ND         0.0250         1         04/11/23         04/11/23           97.6 %         70-130         04/11/23         04/11/23           97.6 %         70-130         04/11/23         04/11/23           mg/kg         mg/kg         Analyst: SL           ND         20.0         1         04/11/23         04/11/23           97.6 %         70-130         04/11/23         04/11/23           97.6 %         70-130         04/11/23         04/11/23           102 %         70-130         04/11/23         04/11/23<



Pima Environmental Services-Carlsbad	Project Name:	Liza Jane	
PO Box 247	Project Number:	22093-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	4/17/2023 9:29:41AM

### CS2

		Reporting					
Analyte	Result	Limit	Di	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	SL		Batch: 2315018
Benzene	ND	0.0250		1	04/11/23	04/11/23	
Ethylbenzene	ND	0.0250		1	04/11/23	04/11/23	
Toluene	ND	0.0250		1	04/11/23	04/11/23	
o-Xylene	ND	0.0250		1	04/11/23	04/11/23	
p,m-Xylene	ND	0.0500		1	04/11/23	04/11/23	
Total Xylenes	ND	0.0250		1	04/11/23	04/11/23	
Surrogate: Bromofluorobenzene		99.4 %	70-130		04/11/23	04/11/23	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130		04/11/23	04/11/23	
Surrogate: Toluene-d8		101 %	70-130		04/11/23	04/11/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	SL		Batch: 2315018
Gasoline Range Organics (C6-C10)	ND	20.0		1	04/11/23	04/11/23	
Surrogate: Bromofluorobenzene		99.4 %	70-130		04/11/23	04/11/23	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130		04/11/23	04/11/23	
Surrogate: Toluene-d8		101 %	70-130		04/11/23	04/11/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	JL		Batch: 2315048
Diesel Range Organics (C10-C28)	ND	25.0		1	04/11/23	04/12/23	
Oil Range Organics (C28-C36)	ND	50.0		1	04/11/23	04/12/23	
Surrogate: n-Nonane		93.5 %	50-200		04/11/23	04/12/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	BA		Batch: 2315034
Chloride	ND	20.0		1	04/11/23	04/11/23	



Pima Environmental Services-Carlsbad	Project Name:	Liza Jane	
PO Box 247	Project Number:	22093-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	4/17/2023 9:29:41AM

### CS3

		Reporting					
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	SL		Batch: 2315018
Benzene	ND	0.0250	1	l	04/11/23	04/11/23	
Ethylbenzene	ND	0.0250	1	l	04/11/23	04/11/23	
Toluene	ND	0.0250	1	l	04/11/23	04/11/23	
o-Xylene	ND	0.0250	1	l	04/11/23	04/11/23	
p,m-Xylene	ND	0.0500	1	1	04/11/23	04/11/23	
Total Xylenes	ND	0.0250	1	l	04/11/23	04/11/23	
Surrogate: Bromofluorobenzene		98.8 %	70-130		04/11/23	04/11/23	
Surrogate: 1,2-Dichloroethane-d4		107 %	70-130		04/11/23	04/11/23	
Surrogate: Toluene-d8		103 %	70-130		04/11/23	04/11/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	-	Analyst:	SL		Batch: 2315018
Gasoline Range Organics (C6-C10)	ND	20.0	1	<u> </u>	04/11/23	04/11/23	
Surrogate: Bromofluorobenzene		98.8 %	70-130		04/11/23	04/11/23	
Surrogate: 1,2-Dichloroethane-d4		107 %	70-130		04/11/23	04/11/23	
Surrogate: Toluene-d8		103 %	70-130		04/11/23	04/11/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: .	Л		Batch: 2315048
Diesel Range Organics (C10-C28)	ND	25.0	1	1	04/11/23	04/12/23	
Oil Range Organics (C28-C36)	ND	50.0	1	<u> </u>	04/11/23	04/12/23	
Surrogate: n-Nonane		100 %	50-200		04/11/23	04/12/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	BA		Batch: 2315034



Pima Environmental Services-Carlsbad	Project Name:	Liza Jane	
PO Box 247	Project Number:	22093-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	4/17/2023 9:29:41AM

### CS4

		Reporting					
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	SL		Batch: 2315018
Benzene	ND	0.0250	1	l	04/11/23	04/11/23	
Ethylbenzene	ND	0.0250	1	l	04/11/23	04/11/23	
Toluene	ND	0.0250	1	l	04/11/23	04/11/23	
o-Xylene	ND	0.0250	1	1	04/11/23	04/11/23	
p,m-Xylene	ND	0.0500	1	1	04/11/23	04/11/23	
Total Xylenes	ND	0.0250	1	l	04/11/23	04/11/23	
Surrogate: Bromofluorobenzene		98.0 %	70-130		04/11/23	04/11/23	
Surrogate: 1,2-Dichloroethane-d4		99.9 %	70-130		04/11/23	04/11/23	
Surrogate: Toluene-d8		102 %	70-130		04/11/23	04/11/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	SL		Batch: 2315018
Gasoline Range Organics (C6-C10)	ND	20.0	1	l	04/11/23	04/11/23	
Surrogate: Bromofluorobenzene		98.0 %	70-130		04/11/23	04/11/23	
Surrogate: 1,2-Dichloroethane-d4		99.9 %	70-130		04/11/23	04/11/23	
Surrogate: Toluene-d8		102 %	70-130		04/11/23	04/11/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	л		Batch: 2315048
Diesel Range Organics (C10-C28)	ND	25.0	1		04/11/23	04/12/23	
Oil Range Organics (C28-C36)	ND	50.0	1	[	04/11/23	04/12/23	
Surrogate: n-Nonane		101 %	50-200		04/11/23	04/12/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	BA		Batch: 2315034

Pima Environmental Services-Carlsbad	Project Name:	Liza Jane	
PO Box 247	Project Number:	22093-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	4/17/2023 9:29:41AM

### CS5

		Reporting					
Analyte	Result	Limit	Dilu	ition	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	SL		Batch: 2315018
Benzene	ND	0.0250	1	l	04/11/23	04/11/23	
Ethylbenzene	ND	0.0250	1	l	04/11/23	04/11/23	
Toluene	ND	0.0250	1	l	04/11/23	04/11/23	
o-Xylene	ND	0.0250	1	l	04/11/23	04/11/23	
p,m-Xylene	ND	0.0500	1	1	04/11/23	04/11/23	
Total Xylenes	ND	0.0250	1	l	04/11/23	04/11/23	
Surrogate: Bromofluorobenzene		98.8 %	70-130		04/11/23	04/11/23	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130		04/11/23	04/11/23	
Surrogate: Toluene-d8		100 %	70-130		04/11/23	04/11/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	SL		Batch: 2315018
Gasoline Range Organics (C6-C10)	ND	20.0	1	<u> </u>	04/11/23	04/11/23	
Surrogate: Bromofluorobenzene		98.8 %	70-130		04/11/23	04/11/23	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130		04/11/23	04/11/23	
Surrogate: Toluene-d8		100 %	70-130		04/11/23	04/11/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	Л		Batch: 2315048
Diesel Range Organics (C10-C28)	ND	25.0	1	1	04/11/23	04/12/23	
Oil Range Organics (C28-C36)	ND	50.0	1	<u> </u>	04/11/23	04/12/23	
Surrogate: n-Nonane		95.9 %	50-200		04/11/23	04/12/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	BA		Batch: 2315034



Pima Environmental Services-Carlsbad	Project Name:	Liza Jane	
PO Box 247	Project Number:	22093-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	4/17/2023 9:29:41AM

### CSW1

		Reporting					
Analyte	Result	Limit	Dilu	ıtion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	SL		Batch: 2315018
Benzene	ND	0.0250	1	1	04/11/23	04/11/23	
Ethylbenzene	ND	0.0250	1	1	04/11/23	04/11/23	
Toluene	ND	0.0250	1	1	04/11/23	04/11/23	
o-Xylene	ND	0.0250	1	1	04/11/23	04/11/23	
p,m-Xylene	ND	0.0500	1	1	04/11/23	04/11/23	
Total Xylenes	ND	0.0250	1	1	04/11/23	04/11/23	
Surrogate: Bromofluorobenzene		97.1 %	70-130		04/11/23	04/11/23	
Surrogate: 1,2-Dichloroethane-d4		99.8 %	70-130		04/11/23	04/11/23	
Surrogate: Toluene-d8		102 %	70-130		04/11/23	04/11/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	SL		Batch: 2315018
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	04/11/23	04/11/23	
Surrogate: Bromofluorobenzene		97.1 %	70-130		04/11/23	04/11/23	
Surrogate: 1,2-Dichloroethane-d4		99.8 %	70-130		04/11/23	04/11/23	
Surrogate: Toluene-d8		102 %	70-130		04/11/23	04/11/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	ЛL		Batch: 2315048
Diesel Range Organics (C10-C28)	ND	25.0	1	1	04/11/23	04/12/23	
Oil Range Organics (C28-C36)	ND	50.0	1	1	04/11/23	04/12/23	
Surrogate: n-Nonane		97.2 %	50-200		04/11/23	04/12/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	BA		Batch: 2315034



Pima Environmental Services-Carlsbad	Project Name:	Liza Jane	
PO Box 247	Project Number:	22093-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	4/17/2023 9:29:41AM

### CSW2

		Reporting					
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	SL		Batch: 2315018
Benzene	ND	0.0250	1	l	04/11/23	04/11/23	
Ethylbenzene	ND	0.0250	1	[	04/11/23	04/11/23	
Toluene	ND	0.0250	1	l	04/11/23	04/11/23	
o-Xylene	ND	0.0250	1	l	04/11/23	04/11/23	
p,m-Xylene	ND	0.0500	1	l	04/11/23	04/11/23	
Total Xylenes	ND	0.0250	1	l	04/11/23	04/11/23	
Surrogate: Bromofluorobenzene		93.1 %	70-130		04/11/23	04/11/23	
Surrogate: 1,2-Dichloroethane-d4		105 %	70-130		04/11/23	04/11/23	
Surrogate: Toluene-d8		103 %	70-130		04/11/23	04/11/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	SL		Batch: 2315018
Gasoline Range Organics (C6-C10)	ND	20.0	1	<u> </u>	04/11/23	04/11/23	
Surrogate: Bromofluorobenzene		93.1 %	70-130		04/11/23	04/11/23	
Surrogate: 1,2-Dichloroethane-d4		105 %	70-130		04/11/23	04/11/23	
Surrogate: Toluene-d8		103 %	70-130		04/11/23	04/11/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: .	JL		Batch: 2315048
Diesel Range Organics (C10-C28)	ND	25.0	1	1	04/11/23	04/12/23	
Oil Range Organics (C28-C36)	ND	50.0	1	[	04/11/23	04/12/23	
Surrogate: n-Nonane		96.3 %	50-200		04/11/23	04/12/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	BA		Batch: 2315034



Pima Environmental Services-Carlsbad	Project Name:	Liza Jane	
PO Box 247	Project Number:	22093-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	4/17/2023 9:29:41AM

### CSW3

		Reporting				
Analyte	Result	Limit	Diluti	ion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: SL		Batch: 2315018
Benzene	ND	0.0250	1	04/11/23	04/11/23	
Ethylbenzene	ND	0.0250	1	04/11/23	04/11/23	
Toluene	ND	0.0250	1	04/11/23	04/11/23	
o-Xylene	ND	0.0250	1	04/11/23	04/11/23	
p,m-Xylene	ND	0.0500	1	04/11/23	04/11/23	
Total Xylenes	ND	0.0250	1	04/11/23	04/11/23	
Surrogate: Bromofluorobenzene		100 %	70-130	04/11/23	04/11/23	
Surrogate: 1,2-Dichloroethane-d4		97.7 %	70-130	04/11/23	04/11/23	
Surrogate: Toluene-d8		102 %	70-130	04/11/23	04/11/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	А	Analyst: SL		Batch: 2315018
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/11/23	04/11/23	
Surrogate: Bromofluorobenzene		100 %	70-130	04/11/23	04/11/23	
Surrogate: 1,2-Dichloroethane-d4		97.7 %	70-130	04/11/23	04/11/23	
Surrogate: Toluene-d8		102 %	70-130	04/11/23	04/11/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: JL		Batch: 2315048
Diesel Range Organics (C10-C28)	ND	25.0	1	04/11/23	04/12/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/23	04/12/23	
Surrogate: n-Nonane		97.9 %	50-200	04/11/23	04/12/23	
	mg/kg	mg/kg	А	Analyst: BA		Batch: 2315034
Anions by EPA 300.0/9056A	mg/kg	mg/kg		maryst: Bit		Datell. 2313034



Pima Environmental Services-Carlsbad	Project Name:	Liza Jane	
PO Box 247	Project Number:	22093-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	4/17/2023 9:29:41AM

### CSW4

		Reporting					
Analyte	Result	Limit	Dilu	ıtion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	SL		Batch: 2315018
Benzene	ND	0.0250	1	1	04/11/23	04/11/23	
Ethylbenzene	ND	0.0250	1	1	04/11/23	04/11/23	
Toluene	ND	0.0250	1	1	04/11/23	04/11/23	
o-Xylene	ND	0.0250	1	1	04/11/23	04/11/23	
p,m-Xylene	ND	0.0500	1	1	04/11/23	04/11/23	
Total Xylenes	ND	0.0250	1	1	04/11/23	04/11/23	
Surrogate: Bromofluorobenzene		100 %	70-130		04/11/23	04/11/23	
Surrogate: 1,2-Dichloroethane-d4		99.3 %	70-130		04/11/23	04/11/23	
Surrogate: Toluene-d8		103 %	70-130		04/11/23	04/11/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	SL		Batch: 2315018
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	04/11/23	04/11/23	
Surrogate: Bromofluorobenzene		100 %	70-130		04/11/23	04/11/23	
Surrogate: 1,2-Dichloroethane-d4		99.3 %	70-130		04/11/23	04/11/23	
Surrogate: Toluene-d8		103 %	70-130		04/11/23	04/11/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	JL		Batch: 2315048
Diesel Range Organics (C10-C28)	ND	25.0	1	1	04/11/23	04/13/23	
Oil Range Organics (C28-C36)	ND	50.0	1	1	04/11/23	04/13/23	
Surrogate: n-Nonane		99.2 %	50-200		04/11/23	04/13/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	BA		Batch: 2315034



Pima Environmental Services-Carlsbad	Project Name:	Liza Jane	
PO Box 247	Project Number:	22093-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	4/17/2023 9:29:41AM

### CSW5

		Reporting					
Analyte	Result	Limit	Dilu	ıtion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	SL		Batch: 2315018
Benzene	ND	0.0250	1	1	04/11/23	04/11/23	
Ethylbenzene	ND	0.0250	1	1	04/11/23	04/11/23	
Toluene	ND	0.0250	1	1	04/11/23	04/11/23	
o-Xylene	ND	0.0250	1	1	04/11/23	04/11/23	
p,m-Xylene	ND	0.0500	1	1	04/11/23	04/11/23	
Total Xylenes	ND	0.0250	1	1	04/11/23	04/11/23	
Surrogate: Bromofluorobenzene		99.3 %	70-130		04/11/23	04/11/23	
Surrogate: 1,2-Dichloroethane-d4		95.6 %	70-130		04/11/23	04/11/23	
Surrogate: Toluene-d8		102 %	70-130		04/11/23	04/11/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	SL		Batch: 2315018
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	04/11/23	04/11/23	
Surrogate: Bromofluorobenzene		99.3 %	70-130		04/11/23	04/11/23	
Surrogate: 1,2-Dichloroethane-d4		95.6 %	70-130		04/11/23	04/11/23	
Surrogate: Toluene-d8		102 %	70-130		04/11/23	04/11/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	ЛL		Batch: 2315048
Diesel Range Organics (C10-C28)	ND	25.0	1	1	04/11/23	04/13/23	
Oil Range Organics (C28-C36)	ND	50.0	1	1	04/11/23	04/13/23	
Surrogate: n-Nonane		86.7 %	50-200		04/11/23	04/13/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	BA		Batch: 2315034
	•	•	•		04/11/23	•	



### **QC Summary Data**

Pima Environmental Services-Carlsbad Project Name: Liza Jane Reported: PO Box 247 Project Number: 22093-0001 Plains TX, 79355-0247 Project Manager: Tom Bynum 4/17/2023 9:29:41AM **Volatile Organic Compounds by EPA 8260B** Analyst: SL Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % % Notes Blank (2315018-BLK1) Prepared: 04/10/23 Analyzed: 04/10/23 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 ND 0.0250 Total Xylenes Surrogate: Bromofluorobenzene 0.494 0.500 98.8 70-130 Surrogate: 1,2-Dichloroethane-d4 0.496 0.500 99.2 70-130 0.500 104 70-130 Surrogate: Toluene-d8 0.521 LCS (2315018-BS1) Prepared: 04/10/23 Analyzed: 04/10/23 2.12 0.0250 2.50 85.0 70-130 Benzene 2.04 2.50 70-130 81.5 Ethylbenzene 0.0250 2.07 0.0250 2.50 82.7 70-130 70-130 2.03 0.0250 2.50 81.1 o-Xylene 3.99 5.00 79.8 70-130 p,m-Xylene 0.0500 6.02 0.0250 7.50 80.2 70-130 Total Xylenes Surrogate: Bromofluorobenzene 0.493 0.500 98.6 70-130 0.500 102 70-130 Surrogate: 1,2-Dichloroethane-d4 0.510 70-130 Surrogate: Toluene-d8 0.507 0.500 Matrix Spike (2315018-MS1) Source: E304039-04 Prepared: 04/11/23 Analyzed: 04/11/23 2.55 0.0250 2.50 ND 102 48-131 45-135 Ethylbenzene 2.43 0.0250 2.50 ND 97.4 48-130 Toluene 2.47 0.0250 2.50 ND 98.6 2.42 0.0250 2.50 ND 96.9 43-135 o-Xylene 4.82 5.00 ND 96.5 43-135 p,m-Xylene 0.0500 Total Xylenes 7.25 0.0250 7.50 ND 96.6 43-135 97.0 0.485 0.500 70-130 Surrogate: Bromofluorobenzene 0.503 0.500 101 70-130 Surrogate: 1,2-Dichloroethane-d4 0.500 102 70-130 0.511 Surrogate: Toluene-d8 Matrix Spike Dup (2315018-MSD1) Source: E304039-04 Prepared: 04/11/23 Analyzed: 04/11/23 2.55 0.0250 2.50 ND 102 48-131 0.0392 23 2.48 0.0250 2.50 ND 99.0 45-135 1.71 27 Ethylbenzene ND 100 48-130 1.75 24 2.51 2.50 Toluene 0.0250 o-Xylene 2.46 0.0250 2.50 ND 98.5 43-135 1.66 27 4.86 5.00 ND 97.1 43-135 0.641 27 0.0500 p,m-Xylene 0.982 27 7.32 0.0250 7.50 ND 97.6 43-135 Total Xylenes Surrogate: Bromofluorobenzene 0.474 0.500 94 7 70-130



0.500

0.500

0.492

0.512

98.4

102

70-130

70-130

Surrogate: 1,2-Dichloroethane-d4

Surrogate: Toluene-d8

### **QC Summary Data**

Pima Environmental Services-CarlsbadProject Name:Liza JaneReported:PO Box 247Project Number:22093-0001Plains TX, 79355-0247Project Manager:Tom Bynum4/17/20239:29:41AM

Nonhal	ogenated	Organics	hy EPA	8015D.	CRO

Analyst: SL

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

	Result	Limit	Level	Result	Rec	Limits	KPD	Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2315018-BLK1)							Prepared: 04	1/10/23 Anal	yzed: 04/10/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.494		0.500		98.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.496		0.500		99.2	70-130			
Surrogate: Toluene-d8	0.521		0.500		104	70-130			
LCS (2315018-BS2)							Prepared: 04	1/11/23 Anal	yzed: 04/13/23
Gasoline Range Organics (C6-C10)	46.4	20.0	50.0		92.8	70-130	·		
Surrogate: Bromofluorobenzene	0.480		0.500		96.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.485		0.500		97.0	70-130			
Surrogate: Toluene-d8	0.521		0.500		104	70-130			
Matrix Spike (2315018-MS2)				Source:	E304039-	04	Prepared: 04	1/11/23 Anal	yzed: 04/11/23
Gasoline Range Organics (C6-C10)	51.5	20.0	50.0	ND	103	70-130			
Surrogate: Bromofluorobenzene	0.494		0.500		98.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.490		0.500		98.0	70-130			
Surrogate: Toluene-d8	0.524		0.500		105	70-130			
Matrix Spike Dup (2315018-MSD2)				Source:	E304039-	04	Prepared: 04	1/11/23 Anal	yzed: 04/11/23
Gasoline Range Organics (C6-C10)	49.2	20.0	50.0	ND	98.3	70-130	4.62	20	
Surrogate: Bromofluorobenzene	0.499		0.500		99.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.496		0.500		99.2	70-130			
Surrogate: Toluene-d8	0.520		0.500		104	70-130			



# **QC Summary Data**

Pima Environmental Services-Carlsbad	Project Name:	Liza Jane	Reported:
PO Box 247	Project Number:	22093-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	4/17/2023 9:29:41AM

Plains TX, 79355-0247		Project Manage	r: To	m Bynum					4/17/2023 9:29:41AN
	Nonha	logenated Or	ganics by	EPA 8015I	) - DRO	/ORO			Analyst: JL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2315048-BLK1)							Prepared: 0	4/11/23 Aı	nalyzed: 04/12/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	47.8		50.0		95.7	50-200			
LCS (2315048-BS1)							Prepared: 0	4/11/23 Aı	nalyzed: 04/12/23
Diesel Range Organics (C10-C28)	252	25.0	250		101	38-132			
Surrogate: n-Nonane	45.0		50.0		89.9	50-200			
Matrix Spike (2315048-MS1)				Source:	E304039-	07	Prepared: 0	4/11/23 Aı	nalyzed: 04/12/23
Diesel Range Organics (C10-C28)	264	25.0	250	ND	106	38-132			
Surrogate: n-Nonane	46.6		50.0		93.2	50-200			
Matrix Spike Dup (2315048-MSD1)				Source:	E304039-	07	Prepared: 0	4/11/23 Aı	nalyzed: 04/12/23
Diesel Range Organics (C10-C28)	265	25.0	250	ND	106	38-132	0.374	20	
Surrogate: n-Nonane	46.8		50.0		93.6	50-200			



Chloride

### **QC Summary Data**

Pima Environmental Services-Carlsbac PO Box 247	1	Project Name: Project Number:		iza Jane 2093-0001					Reported:
Plains TX, 79355-0247		Project Manager	r: To	om Bynum					4/17/2023 9:29:41AM
		Anions	by EPA 3	300.0/9056	A				Analyst: BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2315034-BLK1)							Prepared: 0	4/11/23 A	nalyzed: 04/11/23
Chloride	ND	20.0							
LCS (2315034-BS1)							Prepared: 0	4/11/23 A	nalyzed: 04/11/23
Chloride	247	20.0	250		98.7	90-110			
Matrix Spike (2315034-MS1)				Source:	E304038-	21	Prepared: 0	4/11/23 A	nalyzed: 04/11/23
Chloride	252	20.0	250	ND	101	80-120			
Matrix Spike Dup (2315034-MSD1)				Source:	E304038-	21	Prepared: 0	4/11/23 A	nalyzed: 04/11/23

250

20.0

ND

109

80-120

#### 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:	Liza Jane	
PO Box 247	Project Number:	22093-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	04/17/23 09:29

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.



Client: Pima Environmental Services	M Bill To			ī	ab Us	e Onl	v			T	AT	EPA Pr	ogram
Project: Li7a \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Attention: ATMS TYONG	1	ab WC					50 4	20	3D	Standard	CWA	SDWA
110 000	Address:	Ī	30	403	39	270	22-00	01-			×	12.11	
Project Manager: Tom Bynum	City, State, Zip			100			is and M						RCRA
Address: 56 14 N. Lovington Hwy.	Phone:				1	T I	13 4114 141	T	T				
City, State, Zip Hobbs, NM, 88240												State	
Phone: 580-748-1613	Email:		015				4	1 1		- 1	NMI CC	UT AZ	TX
Email: tom@pimaoil.com	Pima Project # 19-14		8 yq	)21	09	0	00.0	100	2	<	VI CC	01 712	1/1
Report due by:			5 5	) 8 K	782	09	Je 3	1					
Time Date Matrix No. of Containers Sample ID	W.	Lab umber	DRO/ORO by 8015 GRO/DRO by 8015	ВТЕХ БУ 8021	VOC by 8260	Metals 6010	Chloride 300.0	2000	2000	Bedoor		Remarks	
9:00 4/9/23 S 1 CSI		1						1					
9:15 1 1 CS2		2											
9:10		3											
9:15 054	1774	Ц	:					1 /					
1-13					-		-	1	+				
9:20   CSS		5						11	-	-			
9:25   CSW/		0											
0.30 CSIN2		$\eta$						1					
0.2		3								W			
4-35 1 1 C3 VV3				-	-			+	-	-			
9:40   CSW4		7											
9:45 - 1 - CSW5		10							4		14/		
Additional Instructions:	Bill Hilling												
I, (field sampler), attest to the validity and authenticity of this sample. I am a date or time of collection is considered fraud and may be grounds for legal as	aware that tampering with or intentionally mislabelling the	ne sample le	ocation,	1.	0	Sample	s requiring t	hermal pres	rvation	n must be	received on ice the d	y they are samp	led or received
date or time of collection is considered fraud and may be grounds for legal a	ction. Sampled by: AUDITON	Ben	and	192	V_	packed	in ice at an a	avg temp ab	ove 0 b	ut less tha	an 6 °C on subsequent	days.	
Pelinguished by: (Signature) Date Time	Received by: (Signature) Date	te	Tin	ne		1	4 to		Lab	Use (	Only		
4-10-23 2:00	Michielle Survey 14	1-10 2	13	164		Rece	ived on	ice:	(A)	N.	100		277
Relinquished by: (Signature)  11 4111 4111 4111 4111 4111 1111 1111	Received by: (Signature)	te -10-6	23 C	83	0	Ť1		<u>T</u>	2	3. M.			Section 1
Relinquished by: (Signature) Date Time	Received by: (Signature) Date			ne .	_	520	V	11					2.4.
Lorenz Leri 4-1/23 2413	5 Charles 14	11.2		7.1	C	AVG	Temp°	c H			1 101 1 1	No. of Casely	and the state of
City Called Called Called A Assessed Cothor	Cor	ontainer	Type: g	- glass	p-1	oly/pl	astic, ag	- amber	glass,	, v - VO	)A		
Note: Samples are discarded 30 days after results are reported unle	ss other arrangements are made. Hazardous samp	ples will b	e return	red to d	lient o	r dispo	sed of at t	the client	exper	nse. Th	ne report for the a	inalysis of the	e above
samples is applicable only to those samples received by the laborate	ory with this COC. The liability of the laboratory is lir	imited to	the amo	ount pa	id for	on the I	report.						,

envirotech Inc.

Printed: 4/11/2023 1:09:20PM

### **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:	04/11/23	07:15		Work Order ID:	E304039
Phone:	(575) 631-6977	Date Logged In:	04/11/23 (	08:35		Logged In By:	Caitlin Christian
Email:	tom@pimaoil.com	Due Date:	04/17/23	17:00 (4 day TAT)			
Chain of	Custody (COC)						
1. Does th	ne sample ID match the COC?		Yes				
2. Does th	ne number of samples per sampling site location ma	tch the COC	Yes				
3. Were sa	amples dropped off by client or carrier?		Yes	Carrier: <u>C</u>	<u>Courier</u>		
4. Was the	e COC complete, i.e., signatures, dates/times, reques	sted analyses?	Yes				
5. Were al	Il samples received within holding time? Note: Analysis, such as pH which should be conducted in		Yes			Comment	s/Resolution
Camania T	i.e, 15 minute hold time, are not included in this disucssi	on.		1		Comment	5/Resolution
	Aurn Around Time (TAT)  COC indicate standard TAT, or Expedited TAT?		Yes				
Sample C	<u>Cooler</u>						
7. Was a s	sample 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				
11. If yes,	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	e received w/i 15	Yes				
	risible ice, record the temperature. Actual sample	temperature: 4-0	<u>c</u>				
Sample C			3.7				
	queous VOC samples present?		No				
	OC samples collected in VOA Vials?		NA NA				
	head space less than 6-8 mm (pea sized or less)?		NA				
	trip blank (TB) included for VOC analyses?		NA				
	on-VOC samples collected in the correct containers		Yes				
	appropriate volume/weight or number of sample contain	ners collected?	Yes				
Field Lab							
	field sample labels filled out with the minimum info ample ID?	ormation:	Yes				
	ate/Time Collected?		Yes				
	ollectors name?		No				
Sample P	reservation_						
21. Does t	the COC or field labels indicate the samples were pr	reserved?	No				
22. Are sa	imple(s) correctly preserved?		NA				
	filteration required and/or requested for dissolved n	netals?	No				
Multipha	se Sample Matrix						
	the sample have more than one phase, i.e., multipha	se?	No				
	does the COC specify which phase(s) is to be analy		NA				
		, 2001	11/1				
	act Laboratory	0	NT.				
	amples required to get sent to a subcontract laborato	-	No				
29. was a	subcontract laboratory specified by the client and is	r so wno?	NA	Subcontract Lab	: na		
Client In	<u>istruction</u>						

Date

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



### Appendix F

**Disposal Documentation** 

4 inc.	5	7033				
	Ir mstrone	GEN	IERATOR Location of C	Origin / , f	Jane Federal #	4,
			Lease/Well_	MAR C	JUNC FEREIR/ H	
Address			Name & No.			
	M		County			
City, State, Zip			API No			
Phone No.			Rig Name & I	No		
Company Man	•		· ·			
Wind on	TIME STAMP		AL FACILITY	R	ECEIVING AREA	
IN: // /////	OUT:	-		Name/No. Land	<u>Ifill</u>	
Site Name / Permit No. Cor	mmercial Landfill (NM-0	1-0019)	Phone No. 5	75-347-0434		
	. Box 1658 Roswell, NM					
NORM Readings	Taken? (Circle One) YEt	S NO	If YES, was re	eading > 50 micro roent	gens? (Circle One) YES	NO
Pass the Paint Fill	er lest? (Circle One) YE		ISPORTER			
Transporter's Name	1/25	111711				
Address			Truck No			
Phone No.						
				and delivered without inci	dent to the disposal facility listed	
		e proned up at the dener		3 X	,	below.
SHIPMENT DATE	DRIVER'S SIG		DELIVER	RY DATE	DRIVER'S SIGNATURE	
Exempt	t E&P Waste/Service Ide	ntification and Amoun	t (Place volume next t	o waste type in barrels	s or cubic yards)	
Oil Based Muds	·	etion Fluid/Flowback		OTHER EXEMPT V	<u>VASTE</u>	
Oil Based Cuttings Water Based Muds		ed Water (Non-Injectable) ing Line Water/Waste	***************************************	*		······································
Water Based Cuttings		t Water				
Produced Formation Solids	Truck V	Vashout /Jet Out		OTHER NON-EXE	MPT WASTE	
Tank Bottoms	Trash 8	Debris	-			
E&P Contaminated Soil Gas Plant Waste						
WASTE GENERATION PROCES	SS: Drilling	☐ Completion	n 🗀 🗈	Production	Cothoving Lines	
	•	Exempt E&P Waste/S			☐ Gathering Lines	
(All non-e	exempt E&P waste must be a	nalyzed and be below the t	hreshold limits for toxicity	(TCLP), ignition, corrosiven	ess, and reactivity.)	
Non-Exempt Other:			*Please select	t from Non-Exempt Waste I	List on back	
QUANTITY:	B - Barr	els	- L - Liquid	Y - Yards	E - Each	
	•					
			<u>2-138</u>			
I hereby certify that according to described waste load is (Check t	the Resource Conservation the appropriate classification)	and Recovery Act (RCRA)	and the US Environmenta	al Protection Agency's July	1988 regulatory determination, the	above
RCRA EXEMPT:	Oil field wastes generate accepts certifications on	d from oil and gas explora a per month only basis.)	tion and production opera	tions and are not mixed wi	ith non-exempt waste. (Gandy Mark	ey, Inc.
☐ RCRA NON-EXEMPT:	regulations, 40 GFR 261.2	on-hazardous that does no 21-261.24, or listed hazardo as non-hazardous is attach	ous waste as defined by 40	CFR, part 261, subpart D	ous by characteristics established in as amended. The following docume	RCRA ntation
☐ MSDS In:			ardous Waste Analysis	•	ner (Provide Description Below)	
☐ EMERGENCY NON-OILFIEL	.D: Emergency non-hazardoւ	us. non-oilfield waste that h	as been ordered by the De	enartment of Bublic Safety	(The order, documentation of non-h	
	ous waste determination	and a description of the wa	iste must accompany this	form.)	(The Order, documentation of non-r	iazaro-
(PRINT) AUTHORIZED A	GENTS SIGNATURE		DATE		SIGNATURE	
. 1 1 1	a 1				1 1 I	
Kimberh (M)	imply &	1523	c	ami <i>Å</i>	Market Threak	
NAME (PRINT)		DATE		TITLE	SIGNATURE SIGNATURE	

G	023 5:02:46 PMW MEXICO N		VASTE MANIFEST	/ DISPOSAL TICKET	Page 102 of 112
YV inc.	56	232			
Conceptor Nove	Armatrain	GENERA	TOR Location of 0	Drigin Jan Far	edan 1#1
Generator Name	11 STUNG				acial "
Address			Name & No.		
0:1 0:1 =			•		
			API No		
			Rig Name & I	No	
Company Man			AFE/PO No.		
71-11-	IME STAMP	DISPOSAL F	ACILITY	RECEIVING A	AREA
114: 2 0 14 pr / (	OUT:			Name/No. Landfill	
Site Name / Permit No. Cor	nmercial Landfill (NM-01-00	19)	Phone No. <u>5</u>	75-347-0434	
Address P.O.	. Box 1658 Roswell, NM 882	02			
	Taken? (Circle One) YES er Test? (Circle One) YES	NO NO	If YES, was re	eading > 50 micro roentgens? (Circle C	One) YES NC
	1-21/1/2 /20	TRANSPO	RTER		
Fransporter's Name	JUNILY LOTE	<u>/</u>	Print Name _		
Address			Truck No.	5/8	
hone No					
SHIPMENT DATE  Exempt Dil Based Muds Dil Based Cuttings Vater Based Muds Vater Based Cuttings Produced Formation Solids Tank Bottoms	Completion Produced W Gathering L Cement Wa	cation and Amount (Place Fluid/Flowback Vater (Non-Injectable) ine Water/Waste ter out /Jet Out	volume next t	OTHER NON-EXEMPT WASTE	ŠIGNATŪRE
E&P Contaminated Soil Gas Plant Waste	Thash di Del				
VASTE GENERATION PROCES	S: 🛘 Drilling	□ Completion	□Р	roduction   Gatheri	ng Lines
(All non-e	Non-Exexempt E&P waste must be analyz	empt E&P Waste/Service I red and be below the threshold	dentification a	nd Amount (TCLP), ignition, corrosiveness, and reactivit	y.)
Ion-Exempt Other:			*Please select	from Non-Exempt Waste List on back	
QUANTITY:	B - Barrels	L - Liq	uid	Y - Yards	E - Each
		<u>C-138</u>			
hereby certify that according to esoribed waste load is (Check the	the Resource Conservation and ne appropriate classification)	Recovery Act (RCRA) and the	US Environmenta	l Protection Agency's July 1988 regulatory	determination, the above
RCRA EXEMPT:	Oil field wastes generated from accepts certifications on a per	m oil and gas exploration and rmonth only basis.)	production operat	ions and are not mixed with non-exempt w	vaste. (Gandy Marley, Inc.
RCRA NON-EXEMPT:	Oil field waste which is non-h regulations, 40 CFR 261.21-26 demonstrating the waste as no	1.24. Or listed nazardous wast	as defined by 40	andards for waste hazardous by characteris CFR, part 261, subpart D, as amended. The e items as provided.)	stics established in RCRA following documentation
☐ MSDS Info	ormation	☐ RCRA Hazardous W	aste Analysis	Other (Provide Desc	ription Below)
☐ EMERGENCY NON-OILFIELD	<ul> <li>Emergency non-hazardous, no ous waste determination and a</li> </ul>	on-oilfield waste that has been a description of the waste must	ordered by the De accompany this f	partment of Public Safety. (The order, docu form.)	mentation of non-hazard-

NAME (PRINT)

(PRINT) AUTHORIZED AGENTS SIGNATURE

DATE

SIGNATURE

,

01/23

GMI

TITLE

SIGNATURE SUPERIOR PRINTING SERVICE, INC.

Released to Imaging: 10/24/2023 10:19:41 AM

M_inc.	56231				
Ann	Lain	GENERATOR Local	ation of Origin	a Taxe Federal	1#1
Generator Name //////	70NG	Lea	ise/Well	CANE FEMERAL	
Address		Nan	ne & No		
		Cou	nty	And the second of the second o	· · · · · · · · · · · · · · · · · · ·
City, State, Zip		API	No		
Phone No					
Company Man				Western Co.	
JRUCK TIME STAI	MP DI	SPOSAL FACILI	TY	RECEIVING AREA	
IN:////////////////OUT:			Name/I	No. Landfill	
Site Name / Permit No. Commercial L	andfill (NM-01-0019)	Pho	ne No. <u>575-347-0434</u>		
	Roswell, NM 88202	1110,1	/		
NORM Readings Taken? (Circ Pass the Paint Filter Test? (Ci	cle One) YES NO	If YE	ES, was reading > 50 n	nicro roentgens? (Circle One)	YES N
$\Lambda_{a}$	of I fam	TRANSPORTER	<u> </u>		
Transporter's Name	U LOID	Print	Name		
Address		Truc	k No. 384		
Phone No			ne No.	0	
hereby certify that the above named mate	erial(s) was/were picked up at ti	ne Generator's site lister	d above and delivered w	vithout incident to the disposal facility	y listed belo
SHIPMENT DATE	DRIVER'S SIGNATURE		DELIVERY DATE	DRIVER'S SIGNATURE	<u> </u>
Exempt E&P Wast	e/Service Identification and	Amount (Place volun	ne next to waste type	in harrels or cubic yards)	
Dil Based Muds	Completion Fluid/Flowba			EXEMPT WASTE	
Oil Based Cuttings	Produced Water (Non-Inj		<u> </u>	TEACH T WASTE	
Water Based Muds	Gathering Line Water/	ste			
Nater Based Cuttings Produced Formation Solids	— Cement Water  ✓ Truck Washout /Jet Out		OTHER	NON-EXEMPT WASTE	
Fank Bottoms	Trash & Debris	Manage State of State	OTILI	NON-EXEMPT WASTE	
E&P Contaminated Soil		-			
Gas Plant Waste					
	g 🗅 Co	mpletion	☐ Production	☐ Gathering Lines	
NASTE GENERATION PROCESS: Drillin		Vaste/Service Identifi	cation and Amount		
	Non-Exempt E&P V	vaste/ dei vice idei tili		corrosiveness, and reactivity.)	
(All non-exempt E&P v	waste must be analyzed and be be	elow the threshold limits fo	or toxicity (TCLP), ignition		
(All non-exempt E&P v	Non-Exempt E&P V	elow the threshold limits fo	or toxicity (TCLP), ignition	npt Waste List on back	
(All non-exempt E&P v	waste must be analyzed and be be	elow the threshold limits fo	ase select from Non-Exer	npt Waste List on back  Yards ———— E - Ea	ach
Non-Exempt Other:	waste must be analyzed and be be	elow the threshold limits fo	ase select from Non-Exer		ach
(All non-exempt E&P v	waste must be analyzed and be be	elow the threshold limits for *Ple *Ple	ase select from Non-Exer	Yards E - Ea	

☐ RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation

demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided.)

■ MSDS Information

☐ RCRA Hazardous Waste Analysis

☐ Other (Provide Description Below)

EMERGENCY NON-OILFIELD: Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety. (The order, documentation of non-hazardous waste determination and a description of the waste must accompany this form.)

(PRINT) AUTHORIZED AGENTS SIGNATURE

DATE

SIGNATURE

**GMI** TITLE

SUPERIOR PRINTING SERVICE, INC.

Released to Imaging: 10/24/2023 10:19:41 AM

NAME (PRINT)

SUPERIOR PRINTING SERVICE, INC.

M_inc	562	30		
Generator Name	Amstrong	GENERAT	Location of Or Lease/Well	rigin Liza June Federal #1
Address				
City State 7in			,	
			· ·	0
Company Wan	· W.		AFE/PO No	
11'11 am	ME STAMP	DISPOSAL FA	CILITY	RECEIVING AREA
IN: _ / 100/// (	)UT:			Name/No. Landfill
Site Name / Permit No. Con	nmercial Landfill (NM-01-0019	)	Phone No. 57	5-347-0434
	Box 1658 Roswell, NM 88202			
	aken? (Circle One) YES er Test? (Circle One) YES	NO NO		ading > 50 micro roentgens? (Circle One) YES NO
Transporter's Name	BANNU Lan	TRANSPOR	<del></del>	
			Print Name	<i>S</i>
Address			Truck No.	
Diama Na			Bin No	
				d delivered without incident to the disposal facility listed below.
SHIPMENT DATE	DRIVER'S SIGNATUR	_	DELIVERY	/ DATE DRIVER'S SIGNATURE
	E&P Waste/Service Identifica	tion and Amount (Place v	olume next to	waste type in barrels or cubic yards)
Oil Based Muds Oil Based Cuttings	Completion Flu	i i		OTHER EXEMPT WASTE
Water Based Muds	Gathering Line	er (Non-Injectable) · Water/Waste		
Water Based Cuttings	Cement Water			
Produced Formation Solids Tank Bottoms	Truck Washout Trash & Debris			OTHER NON-EXEMPT WASTE
E&P Contaminated Soil	Trasm & Debris			
Gas Plant Waste				
WASTE GENERATION PROCESS	S: 🛘 Drilling	☐ Completion	☐ Pro	oduction
(All non-e)	<b>Non-Exem</b> xempt E&P waste must be analyzed	pt E&P Waste/Service Ide and be below the threshold lin	entification and	d Amount CLP), ignition, corrosiveness, and reactivity.)
Non-Exempt Other:			*Please select fi	rom Ngn-Exempt Waste List on back
QUANTITY:	B - Barrels	L - Liqui	d	Y - Yards E - Each
		<u>C-138</u>		
I hereby certify that according to described waste load is (Check th	e appropriate classification)			Protection Agency's July 1988 regulatory determination, the above
RCRA EXEMPT:	accepts certifications on a per m	onth only basis.)		ons and are not mixed with non-exempt waste. (Gandy Marley, Inc.
☐ RCRA NON-EXEMPT:	Oil field waste which is non-haza regulations, 40 CFR 261.21-261.2 demonstrating the waste as non-	24. Or listed hazardous waste a	is defined by 40 C	ndards for waste hazardous by characteristics established in RCRA DFR, part 261, subpart D, as amended. The following documentation items as provided.)
☐ MSDS Info	ormation	☐ RCRA Hazardous Was	ste Analysis	Other (Provide Description Below)
☐ EMERGENCY NON-OILFIELD	b: Emergency non-hazardous, non- ous waste determination and a de	oilfield waste that has been or escription of the waste must a	dered by the Dep ccompany this fo	partment of Public Safety. (The order, documentation of non-hazard-rm.)
(PRINT) AUTHORIZED AG	ENTS SIGNATURE	DATE		SIGNATURE
Manh 1	M. 1 -212	1 19		11-11-1
_/W/108/4//	MMM 27/	23	GN	MI _ MANUAL / USTACKA -
NAME (PRINT)	DATE	-	TITI	LE SIGNATURE

Released to Imaging: 10/24/2023 10:19:41 AM

V inc.	5621	17			
	n /	GENERA	TOR		,
Generator Name	Hrmstrana		Location of O	rigin LIZA JAN	P. Ferlow H
Address		*			SIEMEN I
		***************************************			
Citv. State. Zip			County	30-041-	20471
					WILL
				lo	
Company Wan		- Alexander - Alexander	AFE/PO No		
, TRUCK TI	ME STAMP	<b>DISPOSAL F</b>	ACILITY	DECEIV	ING AREA
מישות נאל					ING AREA
11N: 110 1911 0	UT:			Name/No. Landfill	
Site Name / Permit No. <b>Com</b>	nmercial Landfill (NM-01-0019)		Phone No. 57	'5-347-0434	
Address P.O.	Box 1658 Roswell, NM 88202	-			
NORM Readings Ta	,	NO	If YES, was rea	ading > 50 micro roentgens? (0	Circle One) YES N
Pass the Paint Filte	er Test? (Circle One) YES	NO	·	o a a a mara a a a magana a	7
	Lacida La	TRANSPO	RTER	,	
Transporter's Name	CUNUY LON	<i></i>	Print Name		
Address			Truck No.	18	
Phone No			Phone No.		
	named material(s) was/were picked				ne dienosal facility listed hale
			3-110-	23 & Martin	To dipposal facility listed being
SHIPMENT DATE	DRIVER'S SIGNATURE		DELIVERY		/ER'S SIGNATURE
			DELIVERY	DATE DRIV	/ER'S SIGNATURE
Exempt I	E&P Waste/Service Identificati	ion and Amount (Place	DELIVERY e volume next to	DATE DRIV	
Exempt I Dil Based Muds Dil Based Cuttings	E&P Waste/Service Identificati  Completion Flui Produced Wate	ion and Amount (Place id/Flowback r (Non-Injectable)	DELIVERY e volume next to	DATE DRIV	
Exempt I Dil Based Muds Dil Based Cuttings Vater Based Muds	E&P Waste/Service Identificati  Completion Flui Produced Wate Gathering Line N	ion and Amount (Place id/Flowback r (Non-Injectable)	DELIVERY e volume next to	DATE DRIV	
Exempt I Dil Based Muds Dil Based Cuttings Vater Based Muds Vater Based Cuttings	E&P Waste/Service Identificati  Completion Flui Produced Wate Gathering Line V Cement Water	ion and Amount (Place id/Flowback r (Non-Injectable) Water/Waste		waste type in barrels or cub  OTHER EXEMPT WASTE	ic yards)
Dil Based Muds Dil Based Cuttings Vater Based Muds Vater Based Cuttings Vater Based Cuttings Produced Formation Solids ank Bottoms	E&P Waste/Service Identificati  Completion Flui Produced Wate Gathering Line N	ion and Amount (Place id/Flowback r (Non-Injectable) Water/Waste	DELIVERY e volume next to	DATE DRIV	ic yards)
Dil Based Muds Dil Based Cuttings Vater Based Muds Vater Based Cuttings Produced Formation Solids ank Bottoms &P Contaminated Soil	E&P Waste/Service Identificati  Completion Flui Produced Wate Gathering Line V Cement Water Truck Washout	ion and Amount (Place id/Flowback r (Non-Injectable) Water/Waste		waste type in barrels or cub  OTHER EXEMPT WASTE	ic yards)
Dil Based Muds Dil Based Cuttings Vater Based Muds Vater Based Cuttings Vater Based Muds Vater Based Cuttings Vate	E&P Waste/Service Identificati  Completion Flui  Produced Water  Gathering Line V  Cement Water  Truck Washout /  Trash & Debris	ion and Amount (Place id/Flowback r (Non-Injectable) Water/Waste /Jet Out		waste type in barrels or cub  OTHER EXEMPT WASTE	ic yards)
	E&P Waste/Service Identificati  Completion Flui  Produced Water  Gathering Line V  Cement Water  Truck Washout /  Trash & Debris	ion and Amount (Place id/Flowback r (Non-Injectable) Water/Waste		Waste type in barrels or cub OTHER EXEMPT WASTE OTHER NON-EXEMPT WAS	ic yards)
Exempt I Dil Based Muds Dil Based Cuttings Vater Based Muds Vater Based Cuttings Produced Formation Solids ank Bottoms &P Contaminated Soil Das Plant Waste	Completion Flui Produced Water Gathering Line N Cement Water Truck Washout A Trash & Debris  Non-Exemp	ion and Amount (Place id/Flowback r (Non-Injectable) Water/Waste  /Jet Out  Completion	□ Pro	Waste type in barrels or cub OTHER EXEMPT WASTE OTHER NON-EXEMPT WAS	TE Sathering Lines
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DATE

GMI

TITLE

SIGNATURE

SIGNATURE /

SUPERIOR PRINTING SERVICE, INC.

NAME (PRINT)

Released to Imaging: 10/24/2023 10:19:41 AM

(PRINT) AUTHORIZED AGENTS SIGNATURE

Received by OCD: 7/25/202	these of them of		STE MANIFEST /	/ DISPOSAL TICKET Page 106 of	112
YVLinc.	5632	. 8			
Generator Name	Amstrong	GENERAT	<b>DR</b> Location of Or Lease/Well	rigin Liza Jane Federal #	4
Address			Name & No		
			County		
City, State, Zip			API No		
Phone No.				lo	
Company Man					
TRUCK TIM	ME STAMP	DISPOSAL FAC	CILITY	RECEIVING AREA	
				Name/No. Landfill	
	mercial Landfill (NM-01-0019)		Phone No. 57	75-347-0434	247-2334
	Box 1658 Roswell, NM 88202				
NORM Readings Ta			If YES, was rea	ading > 50 micro roentgens? (Circle One) YES	NO
Pass the Paint Filter	Test? (Circle One) YES	VO			
Transporter's Name	(DANNU /orn	TRANSPOR'			
Address	sway corp		Print Name Truck No	51/2	
Addicss			-		
Dhone No			Bin No		
Thereby certify that the above he	ameu materiai(s) was/were picked	d up at the Generator's site	listed above an	d delivered without incident to the disposal facility listed t	elow.
SHIPMENT DATE	DRIVER'S SIGNATURE		<u> </u>	DATE DRIVER'S SIGNATURE	
			DELIVERY		
Oil Based Muds			olume next to	waste type in barrels or cubic yards)	
Oil Based Cuttings	Completion Fluid	d/Flowback · (Non-Injectable)		OTHER EXEMPT WASTE	
Water Based Muds	Gathering Line V				
Water Based Cuttings _ Produced Formation Solids _	Cement Water			OTHER NOVE DESIGNATION	
Tank Bottoms _	Truck Washout / Trash & Debris	Jet Out		OTHER NON-EXEMPT WASTE	
E&P Contaminated Soil _	Tradit a Beblis				
Gas Plant Waste _					
WASTE GENERATION PROCESS:	Drilling	Completion	□ Pro	oduction   Gathering Lines	
(All non-exe	<b>Non-Exemp</b> empt E&P waste must be analyzed a	t E&P Waste/Service Ide and be below the threshold lin	entification and nits for toxicity (T	d Amount CLP), ignition, corrosiveness, and reactivity.)	
Non-Exempt Other:			*Please select f	rom Non-Exempt Waste List on back	
QUANTITY:	B - Barrels	Liquid	ı	Y - Yards E - Each	
		<u>C-138</u>			
hereby certify that according to the	De Resource Consonation and Rea		. <del>.</del>		
despribed waste load is (Check the	appropriate classification)	overy Act (HCHA) and the Ut	5 Environmental	Protection Agency's July 1988 regulatory determination, the a	ıbove
RCRA EXEMPT:	Oil field wastes generated from oil accepts certifications on a per more	I and gas exploration and pronth only basis.)	oduction operation	ons and are not mixed with non-exempt waste. (Gandy Marley	, Inc.
RCRA NON-EXEMPT:	Oil field waste which is non-hazar regulations, 40 CFR 261.21-261.24 demonstrating the waste as non-ha	i. Or iisted hazardous waste a	s defined by 40 C	ndards for waste hazardous by characteristics established in F CFR, part 261, subpart D, as amended. The following document items as provided.)	RCRA tation
☐ MSDS Infor		☐ RCRA Hazardous Was		Other (Provide Description Below)	
			io maiyolo	→ Other (Frovide Description Below)	
■ EMERGENCY NON-OILFIELD:	Emergency non-hazardous, non-oi ous waste determination and a des	Ifield waste that has been ord scription of the waste must ad	dered by the Dep ecompany this fo	partment of Public Safety. (The order, documentation of non-harm.)	zard-

DATE

GMI TITLE

GNATURE SUPERIOR PRINTING SERVICE, INC.

SIGNATURE

Released to Imaging: 10/24/2023 10:19:41 AM

(PRINT) AUTHORIZED AGENTS SIGNATURE

NAME (PRINT)	DA	ATE	TI	TLE	SIGNATURE SUPERIOR PRINTIN	NG SERVICE, INC
Kimberly 1	Murphy 35	223		мı <i>/</i> /	Se July July	phy.
(PRINT) AUTHORIZED AC	ous waste determination and	a description of the waste mu	ust accompany this fo	orm.)	SIGNATURE	STROIT HAZAIU
	LD: Emergency non-hazardous, n	on-oilfield waste that has bee	en ordered by the Dei	partment of Public Safe		
□ RCRA NON-EXEMPT: □ MSDS Inf	Oil field waste which is non-hregulations, 40 CFR 261.21-20 demonstrating the waste as notomation	61.24. or listed hazardous was	ste as defined by 40 the heck the appropriate	CFR, part 261, subpart items as provided.)	rdous by characteristics estate D, as amended. The following Other (Provide Description Be	documentation
RCRA EXEMPT:	Oil field wastes generated fro accepts certifications on a pe	er month only basis.)				
described waste load is (Check II						
I hereby certify that according to	to the Resource Conservation and	C-13	-	Protection Assessed	lish 1000 mars later to	-41
QUANTITY:	B - Barrels	L - L		Y - Yards	———— E - E	Each
Non-Exempt Other:	,			from Non-Exempt Was		
(All non-€	Non-Exe -exempt E&P waste must be analyz	empt E&P Waste/Service	e Identification an	nd Amount	· ·	
Gas Plant Waste WASTE GENERATION PROCES	SS: Drilling	☐ Completion	□ Pr	roduction	☐ Gathering Lines	
Tank Bottoms E&P Contaminated Soil	Trash & Det				ZEMI I WOLL	
Water Based Cuttings Produced Formation Solids	Cement Wa			OTHER NON-E	XEMPT WASTE	
Oil Based Cuttings Water Based Muds		Water (Non-Injectable) _ine Water/Waste				
Oil Based Muds	ot E&P Waste/Service Identifi  Completion	n Fluid/Flowback	ce volume next to	waste type in barr  OTHER EXEMP		
SHIPMENT DATE	DRIVER'S SIGNAT		DELIVER	_	OSL LIPEROSA DRIVER'S SIGNATUR	lE
Thereby certify that the above	e named material(s) was/were pi	cked up at the Generator's	site listed above ar	- Company . [ ]	· · · · · · · · · · · · · · · · · · ·	-
			Phone No			
						-
Address			Print Name Truck No.	5/6		
Transporter's Name	Canaly Car	2				
	Iter Test? (Circle One) YES	NO TRANSPO			ornigorio. (Onoic Oric)	120
	D. Box 1658 Roswell, NM 882 Taken? (Circle One) YES	NO NO	If YES was re	eading > 50 micro roe	entgens? (Circle One)	YES NO
Site Name / Permit No. Cor	ommercial Landfill (NM-01-00		Phone No. <u>57</u>	75-347-0434		
TRUCK T	TIME STAMP OUT:	DISPOSAL I	FACILITY	Name/No. La	RECEIVING AREA	
Company Man			AFE/PO No			
			Rig Name & N	10		
City, State, Zip			API No			***************************************
***************************************						
Address	AMSTRAIG					
Generator Name	WWW WILLEAM	BOOK GENERO	Location of O	rigin	JANO FRANCE	rs/#/
City, State, Zip	Med Called of Armstraig	292 GENERA	Location of O Lease/Well Name & No County			

Generator Name  Address  Name & No.  County  City, State, Zip  Phone No.  Company Man  TRUCK TIME STAMP  IN: 2121 OUT:  Site Name / Permit No.  Commercial Landfill (NM-01-0019)  Address  Phone No.  Site Name / Permit No.  Commercial Landfill (NM-01-0019)  Address  Po. Box 1658 Roswell, NM 88202  NORM Readings Taken? (Circle One)	G	23 5:02:46 PMW MEXICO NON-F		ASTE MANIFEST /	DISPOSAL TICKET	Page 108 of 112
Generator Name Address County City, State, Zip Phone No. Company Man AFEPO No.  FIG. Name & No. AREA No. Company Man AFEPO No.  FIG. Name & No. AREA No. ARE	YVLinc.	J027	·			
County API No. Phone No. Company Man AFEPO No.  TRUCK TIME STAMP OUT: Site Name / Permit No. Commercial Landfill (MM-01-0019) Phone No. Pass the Paint Filter Test? (Circle One) YES No Pass the Paint Filter Test? (Circle One) YES No Pass the Paint Filter Test? (Circle One) YES No TRANSPORTER  Transporter's Name Address Truck No. Bin No. Phone No	Generator Name	mstrong	GENERAT	OR Location of Or Lease/Well	igin /120 Jave	Faleral #1
City, State, Zip	Address			Name & No		
Phone No				County	The state of the s	
Phone No	City, State, Zip		The state of the s	API No		
TRUCK TIME STAMP  IN:	Phone No					
Site Name / Permit No. Commercial Landfill (NM-01-0019)  Address  PO. Box 1958 Roswell, NM 89202  NORM Readings Taken? (Circle One) YES NO Pass the Paint Filter Jest? (Circle One) YES NO Pass the Paint Filter Jest? (Circle One) YES NO  TRANSPORTER  Print Name  Truck No. Bin No. Phone No. I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal acitity issed be Bin No. Phone No. I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal acitity issed be Bin No. Phone No. I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal acitity issed be Bin No. Phone No. I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal acitity issed be Bin No. Phone No. I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal acitity issed be Bennyther of the state of the	Company Man			AFE/PO No		
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Address    P.O. Box 1658 Roswell, NM 88202   NOFM Readings Taken? (Circle One) YES NO	IN: DISTIPLE OF	UI:]			Name/No. Landfill	
NORM Readings Taken? (Circle One) YES NO Pass the Paint Filter Test? (Circle One) YES NO TRANSPORTER  Print Name Truck No. Bin No. Phone No. Intereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed be Exempt E&P Waste/Service Identification and Amount (Place volume next to waste type in barrels or cubic yards)  Blassed Muds Dil Based Cuttings Produced Water (Non-Injectable) Completion Fluid/Flowbeck Dil Based Cuttings Produced Water (Non-Injectable) Completion Gutter Green Water Waste Produced Formation Solids Truck Washout /Jet Out Trash & Debris  Bar Point Name Truck No. Dil Based Muds Dil Based Cuttings Produced Water (Non-Injectable) Dil Based Muds Dil Based Cuttings Produced Water (Non-Injectable) Dil Based Muds Dil Based Muds Dil Based Cuttings Produced Water (Non-Injectable) Dil Based Cuttings Produced Water (Non-Injectable) Dil Based Cuttings Produced Vater (Non-Injectable) Dil Based Cuttings Produced Formation Solids Dil Based Water (Non-Injectable) Dil Based Cuttings Non-Exempt Waste (Non-Injectable) Dil Based Cuttings Non-Exempt E&P Waster (Non-Injectable) Dil Based Cuttings Non-Exempt E&P Waster (Non-Injectable) Dil Based Cuttings Produced Formation Dil Based Cuttings Non-Exempt Other: Please select from Non-Exempt Waste List on back Produced Vater (Non-Injectable) Dil Based Cuttings Produced Formation Agency's July 1988 regulatory determination, the absence of the Machine Concept of the Selection Agency's July 1988 regulatory determination, the absence of the Machine Concept of the Select		· · · · · · · · · · · · · · · · · · ·		Phone No. 57	5-347-0434	
Transporter's Name						
Print Name Address		, ,	· -	If YES, was rea	ading > 50 micro roentgens? (Ci	rcle One) YES NO
Address	/	20 My Jam	TRANSPOR	TER		
Phone No	Transporter's Name	uning corp				
Phone No	Address			Truck No.	10	
SHIPMENT DATE DRIVER'S SIGNATURE DELIVERY DATE DRIVER'S SIGNATURE  Exempt E&P Waste/Service Identification and Amount (Place volume next to waste type in barrels or cubic yards)  DI Based Muds Completion Fluid/Flowback Di Based Cuttings Produced Water (Non-Injectable)  Water Based Guttings Produced Water (Non-Injectable)  Water Based Muds Gathering Line Water/Waste  Water Based Guttings Cement Water  Truck Washout /Jet Out DTHER NON-EXEMPT WASTE  Waster Generation Solids Truck Washout /Jet Out DTHER NON-EXEMPT WASTE  WASTE GENERATION PROCESS: Drillling Completion Production Gathering Lines  Non-Exempt E&P Waste/Service Identification and Amount  (All non-exempt E&P waste must be analyzed and be below the threshold limits for toxicity (TCLP), ignition, corrosiveness, and reactivity.)  WON-Exempt Other: Please select from Ngn-Exempt Waste List on back  Produced From Ngn-Exempt Waste List on back  Non-Exempt Other: Please select from Ngn-Exempt Waste List on back  B - Barrels L - Liquid Y - Yards E - Each  C-138  Hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the absorbed waste load is (Check the appropriate classification)  RCRA EXEMPT: Oil field waste spenarated from oil and gas exploration and production operations and are not mixed with non-exempt waste. (Gandy Marley, accepts certifications on a per month only basis.)  RCRA NON-EXEMPT: Oil field waste which is non-bazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RC regulations, 40 CFR 2812-212-25124, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documental demonstrating the waste as non-hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documental demonstrating the waste as non-hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documental demonstrating the waste as non-haz				Bin No		
SHIPMENT DATE  DRIVER'S SIGNATURE  Exempt E&P Waste/Service Identification and Amount (Place volume next to waste type in barrels or cubic yards)  Dil Based Muds Dil Based Cuttings Produced Water (Non-Injectable) Water Based Cuttings Produced Formation Solids Mater Based Cuttings Cement Water Produced Formation Solids Truck Washout /Jet Out Trash & Debris  B Completion Truck Washout /Jet Out Trash & Debris  B Completion Deproduction Deproducti						
Oil Based Muds Oil Based Cuttings Water Based Cuttings Water Based Muds Gathering Line Water/Waste Water Based Cuttings Cement Water Completion Fluid/Flowback Gathering Line Water/Waste  Cement Water Comproduced Formation Solids Truck Washout /Jet Out Trash & Debris  EXP Contaminated Soil Gase Plant Waste  WASTE GENERATION PROCESS:  Drilling	SHIPMENT DATE	DRIVER'S SIGNATURE		Sall's DELIVERY	23 X Martin DATE DRIVE	P'S SIGNATURE
Water Based Muds Water Based Cuttings Cament Water Trash & Debris  Trash & Debris  Non-Exempt E&P Waste/Service Identification and Amount (All non-exempt E&P waste must be analyzed and be below the threshold limits for toxicity (TCLP), ignition, corrosiveness, and reactivity.) Non-Exempt Other:  "Please select from Non-Exempt Waste List on back QUANTITY:  B - Barrels  L - Liquid  Y - Yards  E - Each  C-138  hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the ablesofbed waste load is (Check the appropriate classification)  RCRA EXEMPT:  Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. (Gandy Marley, accepts certifications on a per month only basis.)  RCRA NON-EXEMPT:  Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RC regulations, 40 CPR 261.21-261.24, or listed hazardous waste as defined by 40 CPR, part 261, subpart D, as amended. The following documental demonstrating the waste as non-hazardous waste Analysis  CRCRA HAZARDOUN FIELD:  EMERGENCY NON-OILFIELD:  Emergency non-hazardous, non-bilfield waste that has been ordered by the Department of Public Sefety. (The order documentation of Public Se	Oil Based Muds	Completion Fluid	/Flowback			
Water Based Cuttings Produced Formation Solids Truck Washout / Jet Out Trash & Debris    Cement Water   Truck Washout / Jet Out Trash & Debris   Truck Washout / Jet Out   Trash & Debris			• ,			
Trash & Debris  Trash & Debris			rater/ waste			
ASP Contaminated Soil as Plant Waste  WASTE GENERATION PROCESS: Drilling  Non-Exempt E&P Waste/Service Identification and Amount  (All non-exempt E&P waste must be analyzed and be below the threshold limits for toxicity (TCLP), ignition, corrosiveness, and reactivity.)  Iden-Exempt Other:  B - Barrels  L - Liquid  Y - Yards  E - Each  C-138  Thereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the abest of waste load is (Check the appropriate classification)  RCRA EXEMPT:  Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. (Gandy Marley, accepts certifications on a per month only basis.)  RCRA NON-EXEMPT:  Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RC regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documental demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided.)  EMERGENCY NON-OILFIELD: Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety. (The order documentation for the policy of the policy documentation of Public Safety. (The order documentation for the policy of			let Out		OTHER NON-EXEMPT WASTI	E
Non-Exempt E&P Waste/Service Identification and Amount (All non-exempt E&P waste must be analyzed and be below the threshold limits for toxicity (TCLP), ignition, corrosiveness, and reactivity.)  Identification and Amount (All non-exempt E&P waste must be analyzed and be below the threshold limits for toxicity (TCLP), ignition, corrosiveness, and reactivity.)  Identification and Amount (All non-exempt E&P waste must be analyzed and be below the threshold limits for toxicity (TCLP), ignition, corrosiveness, and reactivity.)  Identification and Amount (All non-exempt E&P waste must be analyzed and be below the threshold limits for toxicity (TCLP), ignition, corrosiveness, and reactivity.)  Identification and Amount (All non-exempt E&P waste must be analyzed and be below the threshold limits for toxicity (TCLP), ignition, corrosiveness, and reactivity.)  Identification and Production on perturbed limits for toxicity (TCLP), ignition, corrosiveness, and reactivity.)  Identification and Production operation and production back  Identification and Production operation Agency's July 1988 regulatory determination, the absence be appropriate operation and production operations and are not mixed with non-exempt waste. (Gandy Marley, accepts certifications on a per month only basis.)  Identification Agency's July 1988 regulatory determination, the absence of the perturbed operation and production operations and are not mixed with non-exempt waste. (Gandy Marley, accepts certifications on a per month only basis.)  Identification Agency and Agency and Agency and Agency's July 1988 regulatory determination, the absency and Agency and Ag	&P Contaminated Soil	Trash & Debris				
(All non-exempt E&P waste must be analyzed and be below the threshold limits for toxicity (TCLP), ignition, corrosiveness, and reactivity.)  **Please select from Non-Exempt Waste List on back  **C-138**  **Description of the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the ablescribed waste load is (Check the appropriate classification)  **RCRA EXEMPT:**  Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. (Gandy Marley, accepts certifications on a per month only basis.)  RCRA NON-EXEMPT:**  Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RC regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documental demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided.)  **MSDS Information**  **Please select from Non-Exempt Waste List on back  **Y - Yards  **E - Each  **C-138*  **Description Agency's July 1988 regulatory determination, the ablescore of the appropriate items and are not mixed with non-exempt waste. (Gandy Marley, accepts certifications on a per month only basis.)  Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RC regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documental demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided.)  **Description of the RCRA Hazardous Waste Analysis  **Description of the RCRA Hazardous Waste Analysis  **Description of the RCRA Hazardous Waste Analysis  **Description	VASTE GENERATION PROCESS	: 🛘 Drilling	☐ Completion	□ Pro	duction 🛘 Ga	thering Lines
*Please select from Non-Exempt Waste List on back  *Please select from Non-Exempt Waste List on back  *Please select from Non-Exempt Waste List on back  **DUANTITY:  **Please select from Non-Exempt Waste List on back  **DUANTITY:  **Please select from Non-Exempt Waste List on back  **DUANTITY:  **Please select from Non-Exempt Waste List on back  **DUANTITY:  **Please select from Non-Exempt Waste List on back  **DUANTITY:  **Please select from Non-Exempt Waste List on back  **DUANTITY:  **Please select from Non-Exempt Waste List on back  **DUANTITY:  **Please select from Non-Exempt Waste List on back  **DUANTITY:  **Please select from Non-Exempt Waste List on back  **DUANTITY:  **Please select from Non-Exempt Waste List on back  **DUANTITY:  **Please select from Non-Exempt Waste List on back  **DUANTITY:  **Please select from Non-Exempt Waste List on back  **DUANTITY:  **DUANTITY:  **Please select from Non-Exempt Waste List on back  **DUANTITY:  **Please select from Non-Exempt Waste List on back  **DUANTITY:  **DUANTITY:  **Please select from Non-Exempt Waste List on back  **DUANTITY:  **DUANTITY:  **Please select from Non-Exempt Waste List on back  **DUANTITY:  **DUANTITY:  **Please select from Non-Exempt Waste List on back  **DUANTITY:  **DUANTITY:  **DUANTITY:  **DUANTITY:  **Please select from Non-Exempt Waste List on back  **DUANTITY:  **DUANTI	(All non-ex	Non-Exempt empt E&P waste must be analyzed an	E&P Waste/Service Io	lentification and	d Amount CLP), ignition, corrosiveness, and re-	activity)
DUANTITY:  B - Barrels  L - Liquid  Y - Yards  E - Each  C-138  Thereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the ablescynded waste load is (Check the appropriate classification)  RCRA EXEMPT:  Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. (Gandy Marley, accepts certifications on a per month only basis.)  RCRA NON-EXEMPT:  Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RC regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentated demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided.)  MSDS Information  RCRA Hazardous Waste Analysis  Other (Provide Description Below)						
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RCRA EXEMPT:  Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. (Gandy Marley, accepts certifications on a per month only basis.)  RCRA NON-EXEMPT:  Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RC regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided.)  Difference of the provide Description Below)  EMERGENCY NON-OILFIELD: Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (The order documentation of sea have			<u>C-138</u>			
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regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documental demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided.)  MSDS Information  RCRA Hazardous Waste Analysis  Other (Provide Description Below)		Oil field wastes generated from oil	and gas exploration and pth only basis.)	roduction operatio	ons and are not mixed with non-exer	mpt waste. (Gandy Marley, Inc.
MSDS Information  RCRA Hazardous Waste Analysis  Other (Provide Description Below)  EMERGENCY NON-OILFIELD: Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (The order degumentation of one hazardous)	RCRA NON-EXEMPT:	regulations, 40 GrH 201.21-261.24.	Or listed hazardous waste.	as defined by 40 C	ER nart 261 subpart D as amondo	acteristics established in RCRA d. The following documentation
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EMERGENCY NON-OILFIELD: Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety. (The order, documentation of non-hazardous waste determination and a description of the waste must accompany this form.)	<u> </u>	······································	■ nona hazardous Wa	sie Analysis	→ Other (Provide)	Description Below)
	☐ EMERGENCY NON-OILFIELD:	Emergency non-hazardous, non-oilf ous waste determination and a desc	field waste that has been o cription of the waste must	rdered by the Depa accompany this for	artment of Public Safety. (The order, rm.)	documentation of non-hazard-

DATE

GMI

TITLE

SIGNATURE

SIGNATURE

SUPERIOR PRINTING SERVICE, INC.

Released to Imaging: 10/24/2023 10:19:41 AM

NAME (PRINT)

(PRINT) AUTHORIZED AGENTS SIGNATURE

GENERATOR  Localition of Origin Local/Yell  Address  County Address  County Address  County APP No. Phone No. Big Name & No. Company Man. APP No. Big Name & No. Big Name & No. Big Name & No. Big Name & No. Big No. Big Name & No. Big No. Bi	M_inc	562	76			
Courtey State, Zip	-	Arnstrong	GENERAT	Location of O Lease/Well _		#
Corp. Step. April. Dept. Phone No.				_		
Pione No.   Righ Name & No.	City, State, Zip					
Processing Main						
Ste Name / Permit No. Commercial Landfill (NM-01-0019)						
Site Name / Permit No. Commercial Landfill (NM-01-0019) Phone No. 575-347-0434  Phone No. 575-347-047-0434  Phone No. 575-347-047-047-047-047-047-047-047-047-047-0	IN: 10/48/AM		DISPOSAL FA		RECEIVING AREA	
Address  P.O. Box 1658 Roswell, NM 88202  NORM Readings Taken? (Circle One) YES NO Pass the Plant Filter Tegt? (Circle One) YES NO Pass the Plant Filter Tegt? (Circle One) YES NO TRANSPORTER  Fransporter's Name  Address  Phone No. Phone	Cita Nama / Dawrit Na Co		<b>n</b>			
NORM Readings Taken? (Circle One) YES NO Pass the Paint Filter Tegt? (Circle One) YES NO TRANSPORTER  Transporter's Name Address  Print Name Addre				Phone No. <u>57</u>	75-347-0434	
Transporter's Name Address Truck No Phone No  Brand Tark that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed belowed by the phone No  Brand Tark DATE	NORM Readings	s Taken? (Circle One) YES	NO NO		eading > 50 micro roentgens? (Circle One) YE	S NC
Address   Truck No.   Bin No.   Phone No.	Transporter's Name	Tandel Port	7 TRANSPOR			
Bin No.   Phone No.   Thereby certify that the above named material(s) was/were picked up at the Generator's site listed glove and delivered without incident to the disposal facility listed belower to be provided by the product of the produced without provided in the disposal facility listed belower to waste type in barrels or cubic yards)  DI Based Muds  Oil Based Muds  Oil Based Muds  Oil Based Cuttings  Produced Water (Non-Injectable)  Gathering Line Water/Waste  Completion   Water/Waste  OTHER EXEMPT WASTE  OTHER EXEMPT WASTE  OTHER EXEMPT WASTE  Trank Battoms  Trank Battoms  Trank Battoms  Trank Battoms  Trank Battoms  Trank Battoms  Non-Exempt E&P Waster/Service Identification and Amount  (All non-exempt E&P waste must be analyzed and be below the threshold limits for toxicity (TCIP), ignifion, corrosiveness, and reactivity.)  Non-Exempt Other:  OUANTITY:  B - Barrels  C-138  I heraby Contry that according to the Resource Coreanvation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1989 regulatory determination, the above devaded waste lead is Check the appropriate classification)  GRORA EXEMPT:  Oil field waste supervised classification of previous in an appropriate items and are not mixed with non-exempt waste. (Gandy Marley, Inspections, 40 CFR 26121-26124, or listed hazardous waste defined by 40 CFR, part 261, subport 0, as amended. The following documentation of populations, 40 CFR 26121-26124, or listed hazardous waste defined by 40 CFR, part 261, subport 0, as amended. The following documentation of populations, 40 CFR 26121-26124, or listed hazardous waste and effective of Public Safety, (The order, documentation of non-hazardous waste deformed by 40 CFR, part 261, subport 0, as amended. The following documentation of the waste must accompany this form.)    CPRINT) AUTHORIZED AGENTS SIGNATURE  DATE  DATE  SIGNATURE  DATE  SIGNATURE  A M - 2 - 2		/ / /		Print Name	5//a	
Phone No						
SHIPMENT DATE	Phone No.					
Exempt E&P Waste/Service Identification and Amount (Place volume next to waste type in barrels or cubic yards)  Oil Based Muds						isted below
Oil Based Muds Completion Fluid/Flowback Produced Varietr (Non-Injectable) Water Based Muds Gathering Line Water/Wastle Committed Soil Gas Plant Waste Waster Based Solids Trash & Debris  Completion Trash & Debris  Non-Exempt E&P Waster/Service Identification and Amount (All non-exempt E&P waste must be analyzed and be below the threshold limits for toxicity (TCLP), ignition, corrosiveness, and reactivity.)  Non-Exempt Other:  Coulantity:  B - Barrels  C-138  I hereby contrily that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above deported waste load is (Check the appropriate classification)  RCRA EXEMPT:  Oil field waste so generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. (Gandy Marley, In accepts certifications on a per month only basis.)  RCRA NON-EXEMPT:  Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCR regulations, 40 CFR 28121-25124, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided.)  MSDS Information  RCRA Hazardous Waste Analysis  Other (Provide Description Below)  PRINTI AUTHORIZED AGENTS SIGNATURE  DATE  SIGNATURE  A MARAM Maraman Amazer Advanced the Maraman Amazer Advanced Amazer	SHIPMENT DATE	DRIVER'S SIGNATURI	E	DELIVER	Y DATE DRIVER'S SIGNATURE	
Oil Based Muds Completion Fluid/Flowback Produced Varietr (Non-Injectable) Water Based Muds Gathering Line Water/Wastle Committed Soil Gas Plant Waste Waster Based Solids Trash & Debris  Completion Trash & Debris  Non-Exempt E&P Waster/Service Identification and Amount (All non-exempt E&P waste must be analyzed and be below the threshold limits for toxicity (TCLP), ignition, corrosiveness, and reactivity.)  Non-Exempt Other:  Coulantity:  B - Barrels  C-138  I hereby contrily that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above deported waste load is (Check the appropriate classification)  RCRA EXEMPT:  Oil field waste so generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. (Gandy Marley, In accepts certifications on a per month only basis.)  RCRA NON-EXEMPT:  Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCR regulations, 40 CFR 28121-25124, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided.)  MSDS Information  RCRA Hazardous Waste Analysis  Other (Provide Description Below)  PRINTI AUTHORIZED AGENTS SIGNATURE  DATE  SIGNATURE  A MARAM Maraman Amazer Advanced the Maraman Amazer Advanced Amazer	Exemp	ot E&P Waste/Service Identificat	tion and Amount (Place	volume next to	waste type in barrels or cubic vards)	
Gas Plant Waste  WASTE GENERATION PROCESS:	Oil Based Cuttings Water Based Muds Water Based Cuttings Produced Formation Solids Tank Bottoms	Produced Water Gathering Line Cement Water Truck Washout	er (Non-Injectable)  Water/Waste  t /Jet Out			
Non-Exempt E&P Waste/Service Identification and Amount  (All non-exempt E&P waste must be analyzed and be below the threshold limits for toxicity (TCLP), ignition, corrosiveness, and reactivity.)  Non-Exempt Other:    Please select from Non-Exempt Waste List on back						
(All non-exempt E&P waste must be analyzed and be below the threshold limits for toxicity (TCLP), ignition, corrosiveness, and reactivity.)  Non-Exempt Other:    Please select fram Non-Exempt Waste List on back   Y - Yards	WASTE GENERATION PROCE	ESS: Drilling	☐ Completion	🗅 Pro	roduction 🛘 Gathering Lines	
CE-138  I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is (Check the appropriate classification)  RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. (Gandy Marley, Independent of the Conservation of the Conserva		Non-Exemptex	pt E&P Waste/Service learned be below the threshold	dentification an limits for toxicity (1	nd Amount TCLP), ignition, corrosiveness, and reactivity.)	
C-138  I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is (Check the appropriate classification)  RCRA EXEMPT:  Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. (Gandy Marley, Incapable Company of the Co				*Please select t	from Non-Exempt Waste List on back	
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RCRA EXEMPT:  Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. (Gandy Marley, Inc. accepts certifications on a per month only basis.)  Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. (Gandy Marley, Inc. accepts certifications on a per month only basis.)  Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCR regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided.)  MSDS Information  RCRA Hazardous Waste Analysis  Other (Provide Description Below)  EMERGENCY NON-OILFIELD: Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety. (The order, documentation of non-hazardous waste determination and a description of the waste must accompany this form.)			<u>C-138</u>			
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regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided.)  MSDS Information  RCRA Hazardous Waste Analysis  Other (Provide Description Below)  EMERGENCY NON-OILFIELD: Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety. (The order, documentation of non-hazardous waste determination and a description of the waste must accompany this form.)  (PRINT) AUTHORIZED AGENTS SIGNATURE  DATE  SIGNATURE	RCRA EXEMPT:	Oil field wastes generated from a accepts certifications on a per m	oil and gas exploration and ponth only basis.)	production operation	ions and are not mixed with non-exempt waste. (Gandy	Marley, Inc.
MSDS Information  RCRA Hazardous Waste Analysis  Other (Provide Description Below)  EMERGENCY NON-OILFIELD: Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety. (The order, documentation of non-hazardous waste determination and a description of the waste must accompany this form.)  (PRINT) AUTHORIZED AGENTS SIGNATURE  DATE  SIGNATURE	☐ RCRA NON-EXEMPT:	regulations, 40 CFR 261.21-261.2	24. or listed hazardous waste	e as defined by 40 (	CFR part 261 subpart D as amended The following doc	ed in RCRA cumentation
(PRINT) AUTHORIZED AGENTS SIGNATURE  DATE  SIGNATURE  Waste must accompany this form.)	☐ MSDS II					)
Kinhert Mussle 3-20-22	☐ EMERGENCY NON-OILFIE	LD: Emergency non-hazardous, non-ous waste determination and a de	oilfield waste that has been on escription of the waste must	ordered by the Dep accompany this fo	partment of Public Safety. (The order, documentation of rorm.)	non-hazard-
Kimberly Murphy 3-20-23 GMI Kimberly Murchy	(PRINT) AUTHORIZED /	AGENTS SIGNATURE	DATE		SIGNATURE	
NAME (PRINT) DATE TITLE SIGNATURE	Kinbery /	Supply 3-20	23		- Janovovy j vayn	by

Released to Imaging: 10/24/2023 10:19:41 AM

M_inc	562	275			
	No. 1	GENERA	ATOR	16	/ / / //
Generator Name	MINSTIONG		Location of Ori Lease/Well	igin LIA (	Jak Federal #1
Address					•
City, State, Zip					
TRUCK	ΓΙΜΕ STAMP	DISPOSAL F	ACILITY		RECEIVING AREA
IN: JUTTUATY	OUT:			Name/No. La	andfill
Site Name / Permit No. Co	mmercial Landfill (NM-01-00	19)	Phone No. 575	L	
	D. Box 1658 Roswell, NM 882		FIIOTIE NO. 37	O 1	
NORM Readings	Taken? (Circle One) YES Iter Test? (Circle One) YES	NO NO	If YES, was rea	ading > 50 micro ro	entgens? (Circle One) YES NC
and the carrier in	de la	TRANSPO	DTED		
Transporter's Name	Gardy Por	TRANSFC	Print Name		
Address			Truck No.	18	
Phone No.			Phone No.		
SHIPMENT DATE	e named material(s) was/were pid DRIVER'S SIGNATU		site listed above and DELIVERY	23 X Ma	incident to the disposal facility listed below  UNE  DRIVER'S SIGNATURE
Exemp	t E&P Waste/Service Identifi	cation and Amount (Plac	e volume next to	waste type in har	rels or cubic vards)
Oil Based Muds		Fluid/Flowback		OTHER EXEMP	
Oil Based Cuttings		/ater (Non-Injectable)			
Water Based Muds Water Based Cuttings	Gathering L Cement Wa	ine Water/Waste			
Produced Formation Solids	Truck Wash			OTHER NON-E	XEMPT WASTE
Tank Bottoms	Trash & Deb	ris			
E&P Contaminated Soil Gas Plant Waste					
WASTE GENERATION PROCE	SS: Drilling	☐ Completion	□ Pro	duction	☐ Gathering Lines
	Non-Exe	mpt E&P Waste/Service	Identification and	d Amount	-
	exempt E&P waste must be analyz				
*			4	om Non-Exempt Was	ste List on back
QUANTITY:	B - Barrels	L - Li	quid	Y - Yards	E - Each
		<u>C-138</u>	3		
hereby certify that according to	o the Resource Conservation and the appropriate classification)		-	Protection Agency's	July 1988 regulatory determination, the above
RCRA EXEMPT:	·	m oil and gas exploration and month only basis.)	d production operatio	ns and are not mixed	d with non-exempt waste. (Gandy Marley, Inc.
RCRA NON-EXEMPT:	Oil field waste which is non-haregulations, 40 CFR 261.21-26 demonstrating the waste as no	11.24, or listed nazardous was	te as defined by 40 C	FR nart 261 subpart	rdous by characteristics established in RCRA Discourage in RCRA as amended. The following documentation

■ MSDS Information

☐ RCRA Hazardous Waste Analysis

☐ Other (Provide Description Below)

EMERGENCY NON-OILFIELD: Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety. (The order, documentation of non-hazardous waste determination and a description of the waste must accompany this form.)

(PRINT) AUTHORIZED AGENTS SIGNATURE

DATE

SIGNATURE

**GMI** TITLE

SIGNATURE

SUPERIOR PRINTING SERVICE, INC.

Released to Imaging: 10/24/2023 10:19:41 AM

SUPERIOR PRINTING SERVICE, INC.

Received by OCD: 7/25	72023 5:02:46 PMW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST / DISPOSAL TICKET
G	

M inc.	561	93			
Generator Name	15trong	GENERAT		Origin Liza Jane Fet+1	
Address					
City, State, Zip			•		
Phone No.			API No		
Company Man	y Hubbach		<b>5</b>		
	/ VIVE MV				
	TME STAMP	DISPOSAL FA	CILITY	RECEIVING AREA	
IN: 6:20ed	OUT:			Name/No. Landfill	
	mmercial Landfill (NM-01-001		Phone No. 5	575-347-0434	
	Box 1658 Roswell, NM 8820				
	Taken? (Circle One) YES ter Test? (Circle One) YES	NO NO	If YES, was re	reading > 50 micro roentgens? (Circle One) YES	
1 dos the 1 dift [ iii	Let Test: (Officie Offe) TES	TRANSPOR	TED		
Transporter's Name	tron Services	THANSPUR	Print Name _		
			Truck No	123	
				•	
Phone No					
			Phone No	and delivered without គ្រុំឲ្យ៨គ្នារ៉ា to the disposal facility listed k	
, ,	man, word pro	ned up at the denerator 3 3h	3-18	and derivered without incidents to the disposal racinity listed to	
SHIPMENT DATE	DRIVER'S SIGNATU	IRE	DELIVER	RY DATE DRIVER'S SIGNATURE	
Exempl	t E&P Waste/Service Identific	eation and Amount (Place	volume nevt to	to waste type in barrels or cubic yards)	
Oil Based Muds		Fluid/Flowback	voidine next to	OTHER EXEMPT WASTE	
Oil Based Cuttings	·	ater (Non-Injectable)		— OTHER EXEMPT WASTE	
Water Based Muds	~	ne Water/Waste			
Water Based Cuttings Produced Formation Solids	Cement Water			OTHER NON-EXEMPT WASTE	
Tank Bottoms	Trash & Debr			CITIEST NON-EXCIVIL T-WASTE	
E&P Contaminated Soil					
Gas Plant Waste					
WASTE GENERATION PROCES	-	☐ Completion		Production   Gathering Lines	
(All non-e	<b>Non-Exe</b> r exempt E&P waste must be analyze	mpt E&P Waste/Service le	dentification a	and Amount (TCLP), ignition, corrosiveness, and reactivity.)	
=	The state of the s				
QUANTITY:			1	t from Non-Exempt Waste List on back	
QUANTITY:	B - Barrels	L - Liqu	ıid — [	Y - Yards E - Each	
marker."		<u>C-138</u>			
I hereby certify that according to	the Resource Conservation and F	Recovery Act (RCRA) and the	US Environmenta	al Protection Agency's July 1988 regulatory determination, the	
desdribed waste load is (Offeck to	ne appropriate classification)				
M RCRA EXEMPT:	Oil field wastes generated from accepts certifications on a per	n oil and gas exploration and p month only basis )	production operat	ations and are not mixed with non-exempt waste. (Gandy Marle	
RCRA NON-EXEMPT:		,		brandanda farrar la	
— HOLIVINON EXEMPT.	regulations, 40 GFR 261.21-26	1.24, or listed hazardous waste	as defined by 40	tandards for waste hazardous by characteristics established in F 0 CFR, part 261, subpart D, as amended. The following documen	
	demonstrating the waste as no	n-hazardous is attached. (Che	ck the appropriate	te items as provided.)	
☐ MSDS Inf	iormation	RCRA Hazardous W	aste Analysis	Other (Provide Description Below)	
D ENERGENOVINOU OF THE					
■ EMERGENCY NON-OILFIELI	<ul> <li>Emergency non-hazardous, nor ous waste determination and a</li> </ul>	n-oilfield waste that has been description of the waste must	ordered by the De	epartment of Public Safety. (The order, documentation of non-ha	
		description of the waste mast	accompany this i	ioini.)	
(PRINT) AUTHORIZED A	GENTS SIGNATI IRE	DATE		<u></u>	
William Control Ballo Al	SELLIO OTOTAL OTIE	DATE		SIGNATURE	
. 1 . 0					
Worth M.	マルド	-13	^	GMI //	
NAME (PRINT)	<u> </u>	F		- Company and a second	
· · · · · · · · · · · · · · · · · · ·	DAI	_	- 11	TITLE SIGNATURE	

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 244184

#### **CONDITIONS**

Operator:	OGRID:
ARMSTRONG ENERGY CORP	1092
P.O. Box 1973	Action Number:
Roswell, NM 88202	244184
	Action Type:
	[C-141] Release Corrective Action (C-141)

#### CONDITIONS

Created By	Condition	Condition Date
nvelez	None	10/24/2023