



# Remediation Summary and Closure Report

January 21, 2025

**West Eumont Unit #115  
Produced Water Release  
Incident No. nAPP2316654395  
Lea County, New Mexico**

**Prepared For:**

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A handwritten signature in blue ink that reads 'Cynthia K. Crain'.

Cynthia K. Crain, P.G.



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## 1.0 Introduction

Crain Environmental (CE), on behalf of Forty Acres Energy, LLC (FAE), has prepared this *Remediation Summary and Closure Report* for the produced water release at West Eumont Unit #115 (Site), located approximately 13 miles northwest of Eunice and approximately 15 miles southwest of Hobbs, in Lea County, New Mexico. The global positioning system (GPS) coordinates for the release are 32.504256, -103.329739. The property surface rights are privately owned. Land use in the Site vicinity is primarily oil and gas production activity and cattle grazing. The location of the Site is depicted on Figure 1.

## 2.0 Background

On May 26, 2023, a release from an injection line located at the West Eumont Unit #115 was discovered. As a result of corrosion of the line, approximately 15 barrels (bbls) of produced water were released. Immediately following the release, the area was secured, a vacuum truck was mobilized to the Site, and the line was repaired. The released fluid covered a surface area of approximately 3,000 square feet on the well pad. Approximately 5 bbl of fluid were recovered. The release point and the surface extent of the release are depicted on Figure 2.

A Notification of Release (NOR) was submitted to the New Mexico Oil Conservation Division (NMOCD) on June 15, 2023, and Incident #nAPP2316654395 was assigned. An Initial Form C-141 (Release Notification Report) was submitted on September 1, 2023. On April 17, 2024, a 90-day extension was approved for submittal of a Site Characterization Report and Remediation Workplan by July 16, 2024. Appendix A provides a copy of the C-141.

A *Site Characterization Report and Remediation Workplan* was submitted to the NMOCD on July 14, 2024, and was approved on July 22, 2024, with a Closure Report due by October 21, 2024. On October 14, 2024, FAE requested a 90-day extension on the Closure Report date. On October 15, 2024, the NMOCD approved the extension until January 21, 2025. This Remediation Summary and Closure Report is being submitted in accordance with 19.15.29.11 New Mexico Administrative Code (NMAC). Appendix B provides a copy of the NMOCD correspondence.

## 3.0 NMOCD Closure Criteria

Cleanup standards for produced water spills are provided in 19.15.29 NMAC. The cleanup standards (described in the rule as "Closure Criteria") are based primarily on depth to groundwater but are also based on other criteria. Three different Closure Criteria are provided in the rule. The most stringent apply to sites where groundwater is found within 50 feet of the ground surface or if the release occurred within one of the following areas:

- Within 300 feet of any continuously flowing watercourse or any other significant watercourse.
- Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary highwater mark).
- Within 300 feet from an occupied permanent residence, school, hospital, institution or church.
- Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes.



- Within 1,000 feet of any fresh water well or spring.
- Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to Section 3-27-3 NMSA 1978 as amended.
- Within 300 feet of a wetland.
- Within the area overlying a subsurface mine.
- Within an unstable area such as a karst formation.
- Within a 100-year floodplain.

CE reviewed available information to determine the Closure Criteria for the Site. The findings of this evaluation are summarized below.

### 3.1 Groundwater Evaluation

A review of the New Mexico Office of the State Engineer (NMOSE) records indicated there are no water wells located within 1 mile of the Site. Based on the absence of water well data, the most stringent NMOCD Closure Criteria will apply to the Site.

### 3.2 Surface Features and Other Development

CE reviewed recent aerial photographs, topographic maps, the NMOSE Point of Discharge (POD) GIS website, and information available from the Lea County, New Mexico Central Appraisal District website. As shown on Figure 1, the Site is not located:

- Within 300 feet of any continuously flowing watercourse or any other significant watercourse.
  - No continuously flowing watercourses (rivers, streams, arroyos, etc.) are apparent within 300 feet of the Site in the topographic map (Figure 1).
- Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary highwater mark).
  - The topographic map (Figure 1) indicates there is not a lakebed, sinkhole or playa lake located within 200 feet of the Site.
- Within 300 feet from an occupied permanent residence, school, hospital, institution or church.
  - The Site Location Map (Figure 1) and information available from the Lea County, New Mexico Central Appraisal District do not show or list any permanent residence, school, hospital, institution or church located within 300 feet of the Site.
- Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes.
  - No wells or springs located within 500 feet of the Site appear in any of the NMOSE records reviewed by CE.
- Within 1,000 feet of any fresh water well or spring.
  - No freshwater wells or springs located within 1,000 feet of the Site appear in any of the records reviewed by CE.



- Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to Section 3-27-3 NMSA 1978 as amended.
  - Based on the property and other records review by CE, the Site is not located in incorporated municipal boundaries or within a defined municipal fresh water well field.
- Within the area overlying a subsurface mine.
  - Based on the property and other records reviewed by CE, the Site is not located within an area overlying a subsurface mine.

### 3.3 Wetlands, Floodplain, and Karst Geology

A review of the United States Fish and Wildlife Service (USFWS) wetlands map indicated the Site is not located within 300 feet of a wetland. The New Mexico Bureau of Land Management (BLM) karst potential map indicates the Site is located within a “low karst potential” area. Finally, review of the Federal Emergency Management Act (FEMA) floodplain map indicates the release at the Site is located outside of a 100-year floodplain. Figures 4, 5, and 6 depict the USFWS map, the FEMA floodplain map, and the karst potential map, respectively.

### 3.4 Closure Criteria Currently Assumed Applicable to the Site

A review of the New Mexico Office of the State Engineer (NMOSE) records indicated there were no water wells located within 0.5 mile of the Site; therefore, the Closure Criteria applicable to the Site will be based on the most stringent regulatory guidelines associated with groundwater depths of less than 50 feet below ground surface (bgs). A summary of the Closure Criteria is provided in the table below and in Table 1. Figure 3 provides a 0.5-mile radius circle around the Site.

**NMOCD Closure Criteria**

Constituent of Concern		Closure Criteria Based on Depth to Groundwater (mg/kg)		
		≤ 50 feet bgs	51 feet to 100 feet bgs	> 100 feet bgs
Chloride (EPA 300)		600	10,000	20,000
TPH (EPA 8015M)	GRO + DRO + MRO	100	2,500	2,500
	GRO + DRO	NA	1,000	1,000
Total BTEX (EPA 8021 or 8260)		50	50	50
Benzene (EPA 8021 or 8260)		10	10	10

Notes: NA = not applicable  
 bgs = below ground surface  
 mg/kg = milligrams per kilogram  
 GRO = gasoline range organics  
 DRO = diesel range organics  
 MRO = motor oil range organics  
 TPH = total petroleum hydrocarbons  
 BTEX = benzene, toluene, ethylbenzene, and total xylenes  
 Green highlighted cells denote applicable Closure Criteria.



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#### 4.0 Site Assessment/Characterization Results

As per 19.15.29.11 NMAC, a Site Characterization Report will have the components described in Sections 4.1 through 4.5 of this document.

##### 4.1 Site Map

As required by 19.15.29.11 NMAC, a scaled diagram showing significant Site infrastructure, sample point locations, and known subsurface features such as utilities is provided as Figure 2.

##### 4.2 Depth to Groundwater

As discussed in Section 3.1, the exact depth to groundwater beneath the Site is unknown. During investigation activities, a maximum depth of 5 feet bgs was reached, at which groundwater was not encountered. No water wells are located within 0.5 mile of the Site; therefore, depth to groundwater is assumed to be less than 50' bgs.

##### 4.3 Wellhead Protection Area

The 0.5-mile wellhead protection area is shown on Figure 3. No known water wells are located within 0.5 mile of the Site. There were no other water sources, springs, or other sources of freshwater extraction identified within 0.5-mile of the Site.

##### 4.4 Distance to Nearest Significant Watercourse

The horizontal distance to the nearest significant watercourse as defined in Subsection P of 19.15.17.7 NMAC is greater than 0.5-mile from the Site.

##### 4.5 Summary of Remediation Activities

Following approval of the *Site Characterization Report and Remediation Workplan* on July 22, 2024, excavation was continued until confirmation samples collected from the bottom and sidewalls on December 5, 2024, reported chloride concentrations below the NMOCD Closure Criteria.

All confirmation samples were collected pursuant to 19.15.29.12(D) NMAC, and were placed in clean glass sample jars, properly labeled, immediately placed on ice and hand delivered to Eurofins Environment Testing (Eurofins) in Midland, Texas under proper chain-of-custody control. All samples were analyzed for chlorides by EPA Method 300.0. As approved in the *Site Characterization Report and Remediation Workplan*, analyses were not conducted for TPH or BTEX.

Table 1 provides a summary of the laboratory results, and sample locations are provided on Figure 2. The laboratory reports and chain-of-custody documentation are provided in Appendix C. Photographic documentation of the release point is provided in Appendix D.

Referring to Table 1, concentrations of chlorides were reported below the Closure Criteria in all samples.



All affected soil has been excavated, and 780 cubic yards (cy) were hauled to disposal at J&L Landfarm. Waste Manifests are provided in Appendix E.

Upon NMOCD approval of this Closure Report, the excavation will be backfilled to grade with non-impacted similar material obtained from a landowner pit. Pursuant to 19.15.29.13 NMAC, the surface area will be restored to pre-release conditions. Surface grading will be performed to near original conditions and contoured to prevent erosion and ponding, promote stability, and preserve storm water flow patterns.

#### **4.6 Laboratory Analytical Data Quality Assurance/Quality Control Results**

Laboratory data in Job Number 880-51907-1 generated by Eurofins, was reviewed to ensure that reported analytical results met data quality objectives. It was determined by quality control data associated with analytical results that reported concentrations of target analytes are defensible and that measurement data reliability is within the expected limits of sampling and analytical error. All analytical results are usable for characterization of soil at the Site. The laboratory analytical results are provided in Appendix C.

#### **5.0 Request for Closure**

A total of 780 cubic yards of soil was excavated and hauled to J&L Landfarm. All soil samples collected during the initial investigation report TPH and BTEX concentrations below the test method detection limits. All confirmation samples collected from the bottom and sidewalls of the excavation reported chloride concentrations below the Closure Criteria.

Upon NMOCD approval of this Closure Report, the excavation will be backfilled to grade with non-impacted similar material obtained from a landowner pit. Pursuant to 19.15.29.13 NMAC, the surface area will be restored to pre-release conditions. Surface grading will be performed to near original conditions and contoured to prevent erosion and ponding, promote stability, and preserve storm water flow patterns.

FAE respectfully requests the closure of Incident #nAPP2319562381.

#### **6.0 Distribution**

Copy 1: Mike Bratcher  
New Mexico Energy, Minerals, and Natural Resources Department  
Oil Conservation Division, District 2  
811 S. First Street  
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## TABLE



TABLE 1  
SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS  
FORTY ACRES ENERGY, LLC  
WEST EUMONT UNIT #115  
NMOCD INCIDENT # nAPP2316654395

Sample ID	Sample Date	Sample Depth	Soil Status	TPH (GRO)	TPH (DRO)	TPH (MRO)	Total TPH	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	Chloride
				milligrams per kilogram (mg/kg)									
NMOCD Closure Criteria							100	10	-	-	-	50	600
DS 01 0.5'	01/22/24	0.5'	Excavated	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	5,360
DS 01 5.0'	01/22/24	5'	Excavated	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	5,360
DS-1 (0-6')	12/05/24	0-6'	In Situ	--	--	--	--	--	--	--	--	--	77.1
DS 02 0.5'	01/22/24	0.5'	Excavated	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	12,700
DS-2 (0-3')	12/05/24	0-3'	In Situ	--	--	--	--	--	--	--	--	--	51.8
DS 02 5.0'	01/22/24	5'	In Situ	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	496
DS 03 0.5'	01/22/24	0.5'	Excavated	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,780
DS-3 (0-3')	12/05/24	0-3'	In Situ	--	--	--	--	--	--	--	--	--	65.5
DS-03 5'	01/23/24	5'	In Situ	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	192
DS 4 0.5'	01/22/24	0.5'	Excavated	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	144
DS 4 2.5'	01/22/24	2.5'	Excavated	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	816
DS-4 (3')	12/05/24	3'	In Situ	--	--	--	--	--	--	--	--	--	49.6
DS-1	01/22/24	0.5'	Excavated	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	3,840
DS-05 2.5'	02/29/24	2.5'	Excavated	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
DS-5 (0-3')	12/05/25	0-3'	In Situ	--	--	--	--	--	--	--	--	--	54.8
DS-05 5'	02/29/24	5'	In Situ	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
DS-06 0.5'	01/23/24	0.5'	In Situ	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
DS-06 2.5'	02/29/24	2.5'	In Situ	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	160
DS-06 5'	02/29/24	5'	In Situ	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
DS- 07 0.5'	02/29/24	0.5'	Excavated	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	432
DS-07 2.5'	02/29/24	2.5'	Excavated	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	6,600
DS-07 5'	02/29/24	5'	Excavated	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	4,720
DS-7 (6')	12/05/24	6'	In Situ	--	--	--	--	--	--	--	--	--	47.4
DS-08 0.5'	02/29/24	0.5'	Excavated	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	11,300
DS-08 2.5'	02/29/24	2.5'	Excavated	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	4,240
DS-8 (0-4')	12/05/24	0-4'	In Situ	--	--	--	--	--	--	--	--	--	53.3
DS-08 5'	02/29/24	5'	In Situ	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	160
DS-09 0.5'	02/29/24	0.5'	Excavated	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	8,000
DS-09 2.5'	02/29/24	2.5'	Excavated	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	4,880
DS-09 5'	02/29/24	5'	Excavated	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,840
DS-9 (0-6')	12/05/24	0-6'	In Situ	--	--	--	--	--	--	--	--	--	55.5
DS-10 0.5'	02/29/24	0.5'	In Situ	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	448
DS-10 2.5'	02/29/24	2.5'	In Situ	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	176
DS-10 5'	02/29/24	5'	In Situ	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112
DS-11 0.5'	02/29/24	0.5'	Excavated	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	928
DS-11 2.5'	02/29/24	2.5'	Excavated	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	4,800
DS-11 (0-6')	12/05/24	0-6'	In Situ	--	--	--	--	--	--	--	--	--	51.9
DS-11 5'	02/29/24	5'	In Situ	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	560
DS-12 (0-3')	12/05/24	0-3'	In Situ	--	--	--	--	--	--	--	--	--	55.1
DS-13 (0-3')	12/05/24	0-3'	In Situ	--	--	--	--	--	--	--	--	--	64.5 F1
DS-14 (0-3')	12/05/24	0-3'	In Situ	--	--	--	--	--	--	--	--	--	53.4
DS-15 (0-3')	12/05/24	0-3'	In Situ	--	--	--	--	--	--	--	--	--	93.1
DS-16 (0-3')	12/05/24	0-3'	In Situ	--	--	--	--	--	--	--	--	--	95.3
DS-17 (0-4')	12/05/24	0-4'	In Situ	--	--	--	--	--	--	--	--	--	81.5
DS-18 (0-4')	12/05/24	0-4'	In Situ	--	--	--	--	--	--	--	--	--	80.9
DS-19 (0-4')	12/05/24	0-4'	In Situ	--	--	--	--	--	--	--	--	--	71.3
DS-20 (0-4')	12/05/24	0-4'	In Situ	--	--	--	--	--	--	--	--	--	62.3
DS-21 (0-4')	12/05/24	0-4'	In Situ	--	--	--	--	--	--	--	--	--	67.8
DS-22 (0-6')	12/05/24	0-6'	In Situ	--	--	--	--	--	--	--	--	--	44.4
DS-23 (0-6')	12/05/24	0-6'	In Situ	--	--	--	--	--	--	--	--	--	72.1 F1
DS-24 (0-6')	12/05/24	0-6'	In Situ	--	--	--	--	--	--	--	--	--	92.1
DS-25 (0-3')	12/05/24	0-3'	In Situ	--	--	--	--	--	--	--	--	--	69.7
DS-26 (0-3')	12/05/24	0-3'	In Situ	--	--	--	--	--	--	--	--	--	91.5
DS-27 (0-3')	12/05/24	0-3'	In Situ	--	--	--	--	--	--	--	--	--	113
DS-28 (0-3')	12/05/24	0-3'	In Situ	--	--	--	--	--	--	--	--	--	71.5
DS-29 (3')	12/05/24	3'	In Situ	--	--	--	--	--	--	--	--	--	70.0
DS-30 (3')	12/05/24	3'	In Situ	--	--	--	--	--	--	--	--	--	69.0

TABLE 1  
SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS  
FORTY ACRES ENERGY, LLC  
WEST EUMONT UNIT #115  
NMOCD INCIDENT # nAPP2316654395

Sample ID	Sample Date	Sample Depth	Soil Status	TPH (GRO)	TPH (DRO)	TPH (MRO)	Total TPH	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	Chloride
				milligrams per kilogram (mg/kg)									
NMOCD Closure Criteria							100	10	-	-	-	50	600
DS-31 (3')	12/05/24	3'	In Situ	--	--	--	--	--	--	--	--	--	68.9
DS-32 (3')	12/05/24	3'	In Situ	--	--	--	--	--	--	--	--	--	71.3
DS-33 (3')	12/05/24	3'	In Situ	--	--	--	--	--	--	--	--	--	88.5 F1
DS-34 (6')	12/05/24	6'	In Situ	--	--	--	--	--	--	--	--	--	95.6
DS-35 (6')	12/05/24	6'	In Situ	--	--	--	--	--	--	--	--	--	68.6
DS-36 (4.1')	12/05/24	4.1'	In Situ	--	--	--	--	--	--	--	--	--	74.7
DS-37 (4.1')	12/05/24	4.1'	In Situ	--	--	--	--	--	--	--	--	--	69.6
DS-38 (4.1')	12/05/24	4.1'	In Situ	--	--	--	--	--	--	--	--	--	160
DS-39 (6')	12/05/24	6'	In Situ	--	--	--	--	--	--	--	--	--	342
DS-40 (6')	12/05/24	6'	In Situ	--	--	--	--	--	--	--	--	--	499
DS-41 (6')	12/05/24	6'	In Situ	--	--	--	--	--	--	--	--	--	322

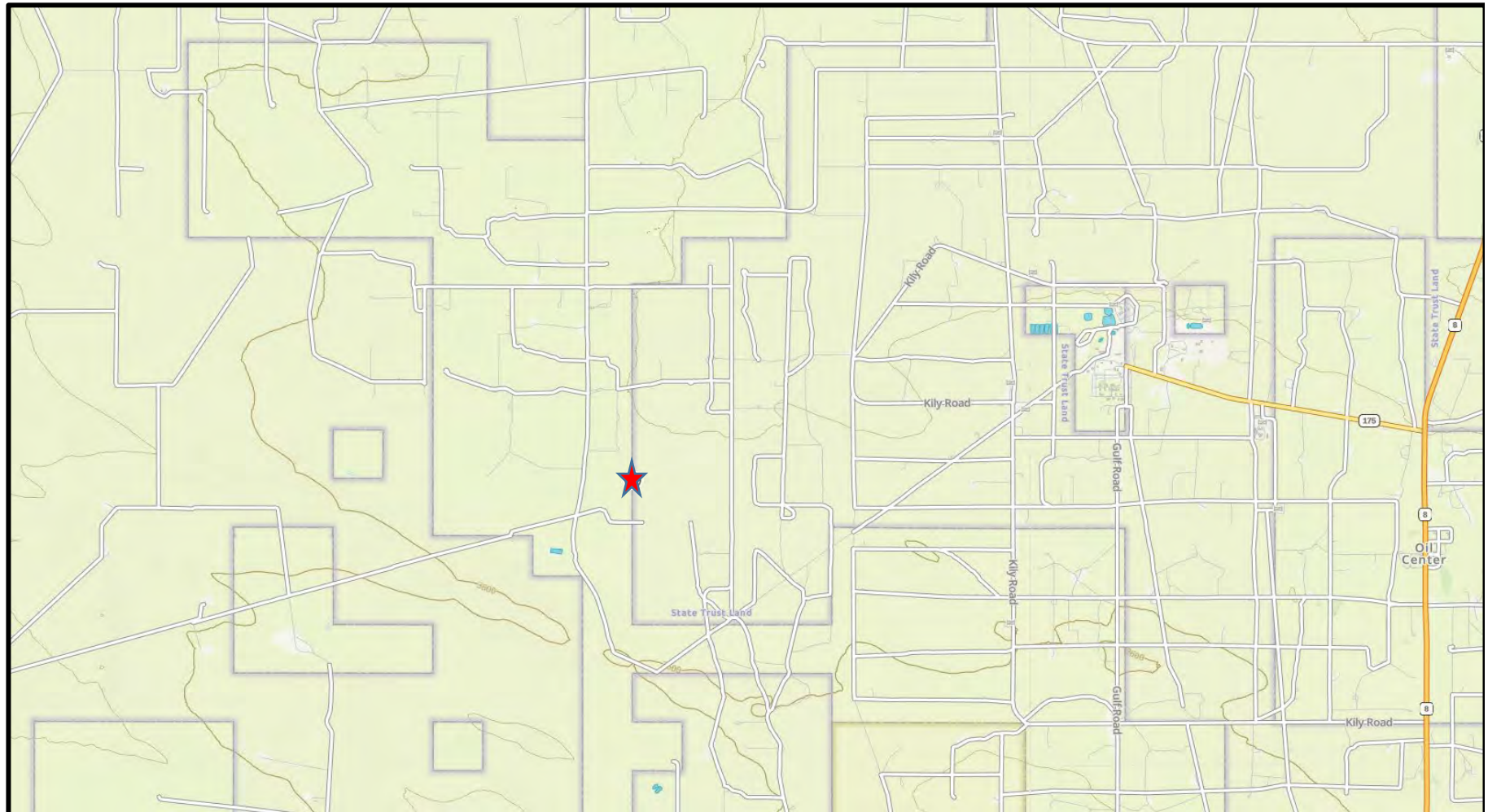
**Notes:**

1. GRO: Gasoline Range Organics
2. DRO: Diesel Range Organics
3. MRO: Motor Oil Range Organics
4. -: No NMOCD Closure Criteria established.
6. Bold indicates the COC was above the appropriate laboratory method/sample detection limit.
7. < indicates the COC was below the appropriate laboratory method/sample detection limit.
8. Bold and yellow highlighting indicates the COC was above the appropriate NMOCD Closure Criteria.
9. Green highlighting indicates soil was excavated and disposed.
9. F1: MS and/or MSD recovery exceeds control limits.



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## FIGURES

**LEGEND:**

Site Location

Base Map From GAIA GPS

**Figure 1****Site Location Map**

Forty Acres Energy, LLC  
West Eumont Unit #115  
Lea County, New Mexico

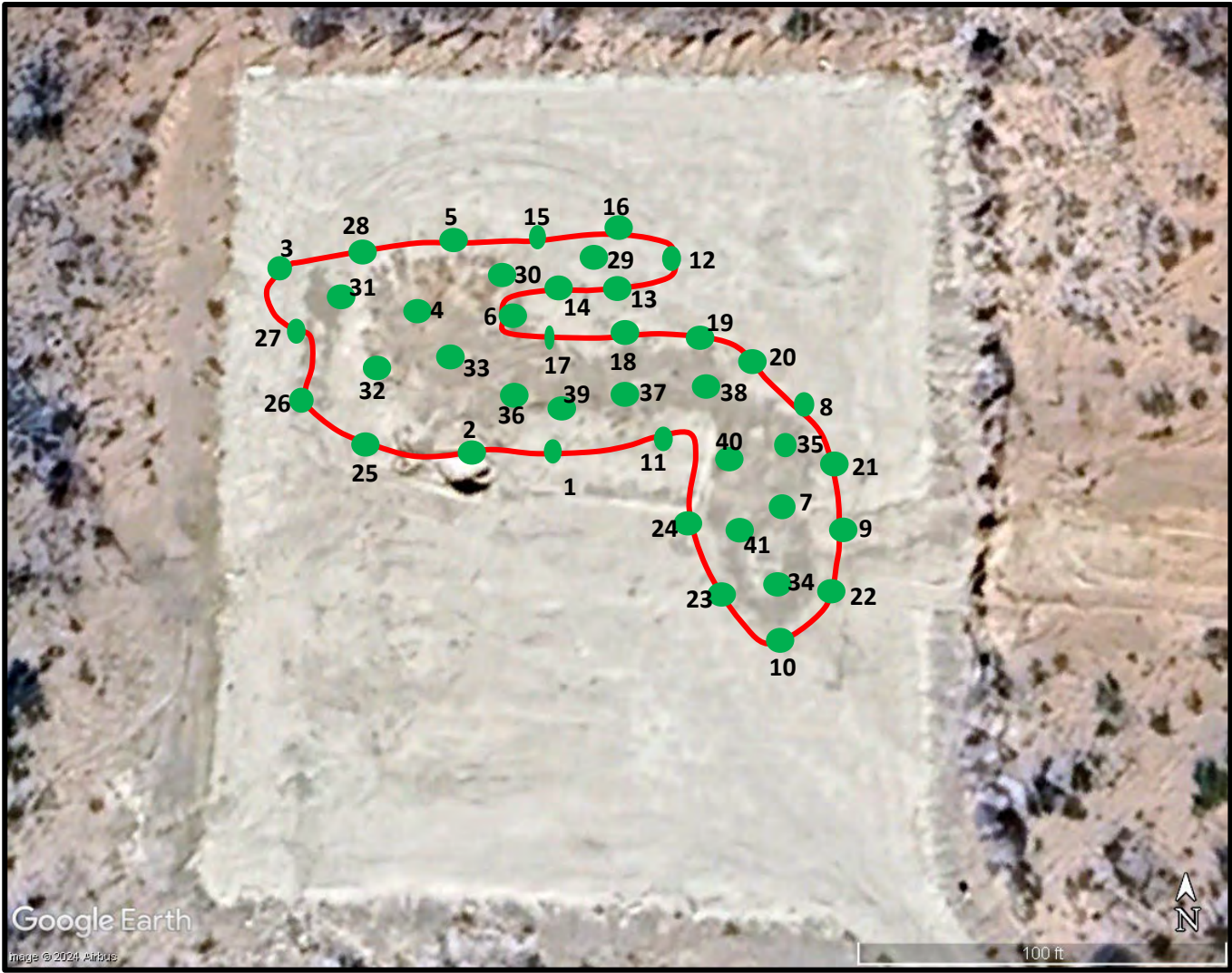
Drafted by: CC | Checked by: CC

Draft: July 13, 2024

GPS: 32.504256° -103.329739°







<b>LEGEND:</b> <div><div>● 1</div><div>Soil Sample Location with Sample Number (DS ...)</div></div> <div><div>●</div><div>Release Point</div></div> <div><div></div><div>Highlighting Indicates Concentration Above the Closure Criteria</div></div> <div><div></div><div>Highlighting Indicates Soil was Excavated and Treated.</div></div> <div><div></div><div>Excavation Boundary</div></div>	<b>Figure 2</b> <b>Soil Sample Location Map</b>  Forty Acres Energy, LLC West Eumont Unit #115 Lea County, New Mexico		
		Drafted by: CC   Checked by: CC	
		Draft: Jan. 19, 2025	
		GPS: 32.504256° -103.329739°	
		Base Map from Google Earth Pro	



**LEGEND:**

Site and Well Location

Base Map from Google Earth Pro

**Figure 3****Wellhead Protection Area Map**

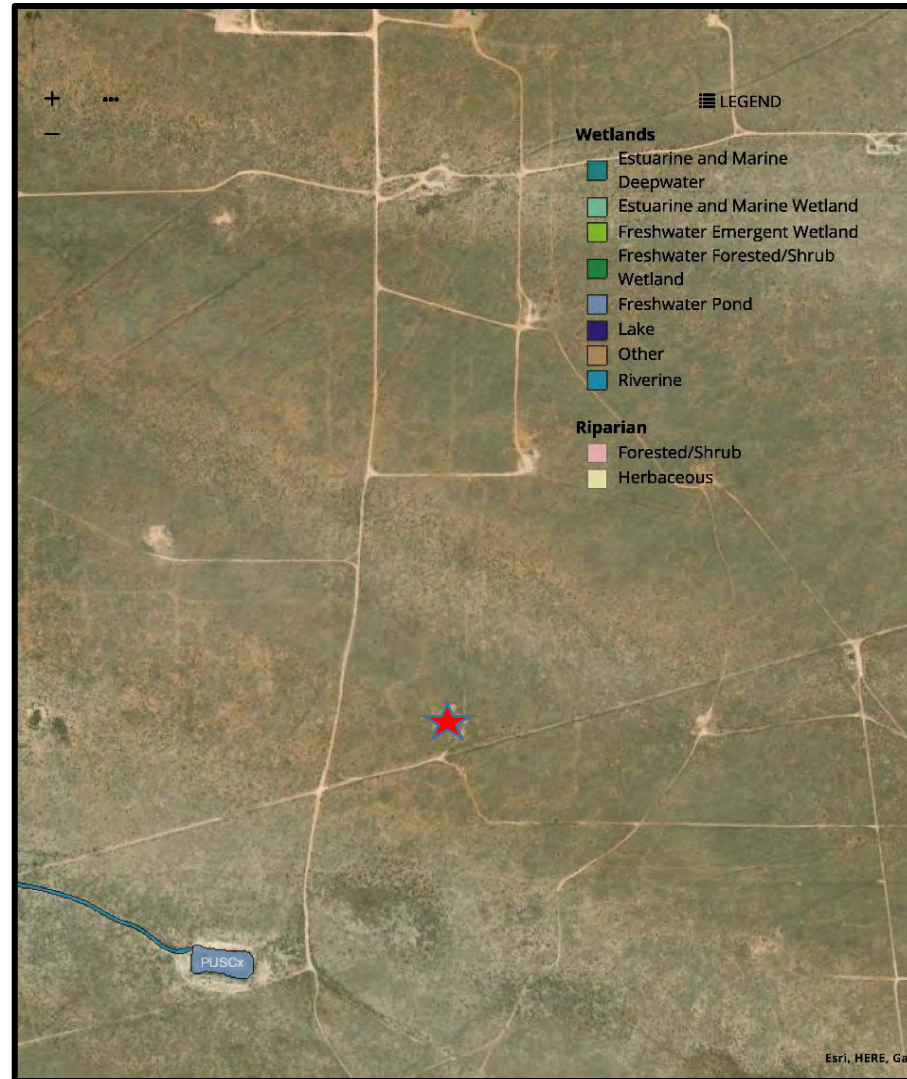
Forty Acres Energy, LLC  
West Eumont Unit #115  
Lea County, New Mexico



Drafted by: CC | Checked by: CC

Draft: July 13, 2024

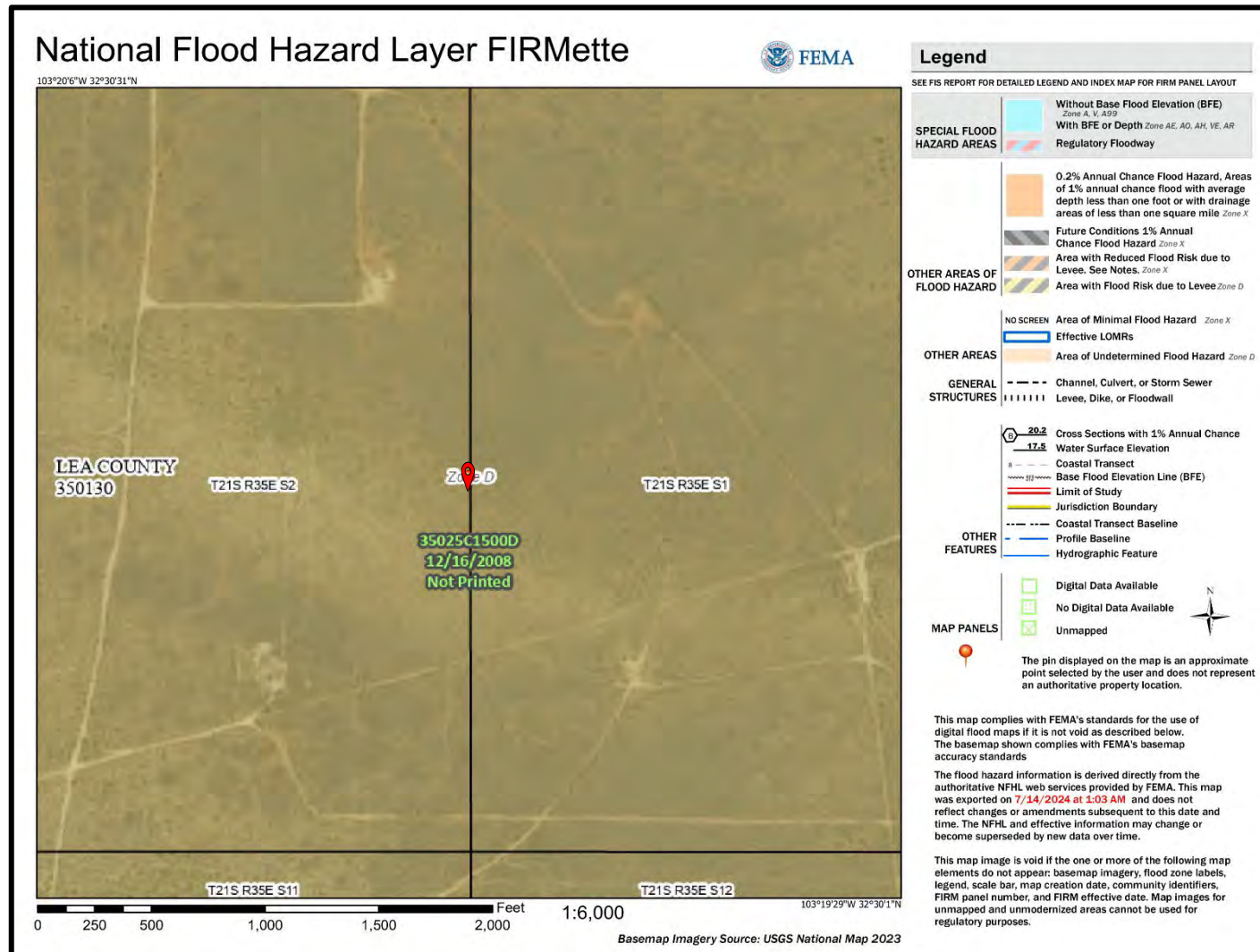
GPS: 32.504256° -103.329739°





<b>LEGEND:</b>  Site Location  Base Map From US Fish & Wildlife Service	<b>Figure 4</b> <b>National Wetlands Inventory Map</b>  Forty Acres Energy, LLC West Eumont Unit #115 Lea County, New Mexico		
		Drafted by: CC   Checked by: CC	
		Draft: July 13, 2024	
		GPS: 32.504256° -103.329739°	



**LEGEND:**

Site Location

Base Map From FEMA

**Figure 5****FEMA Floodplain Map**

Forty Acres Energy, LLC  
West Eumont Unit #115  
Lea County, New Mexico

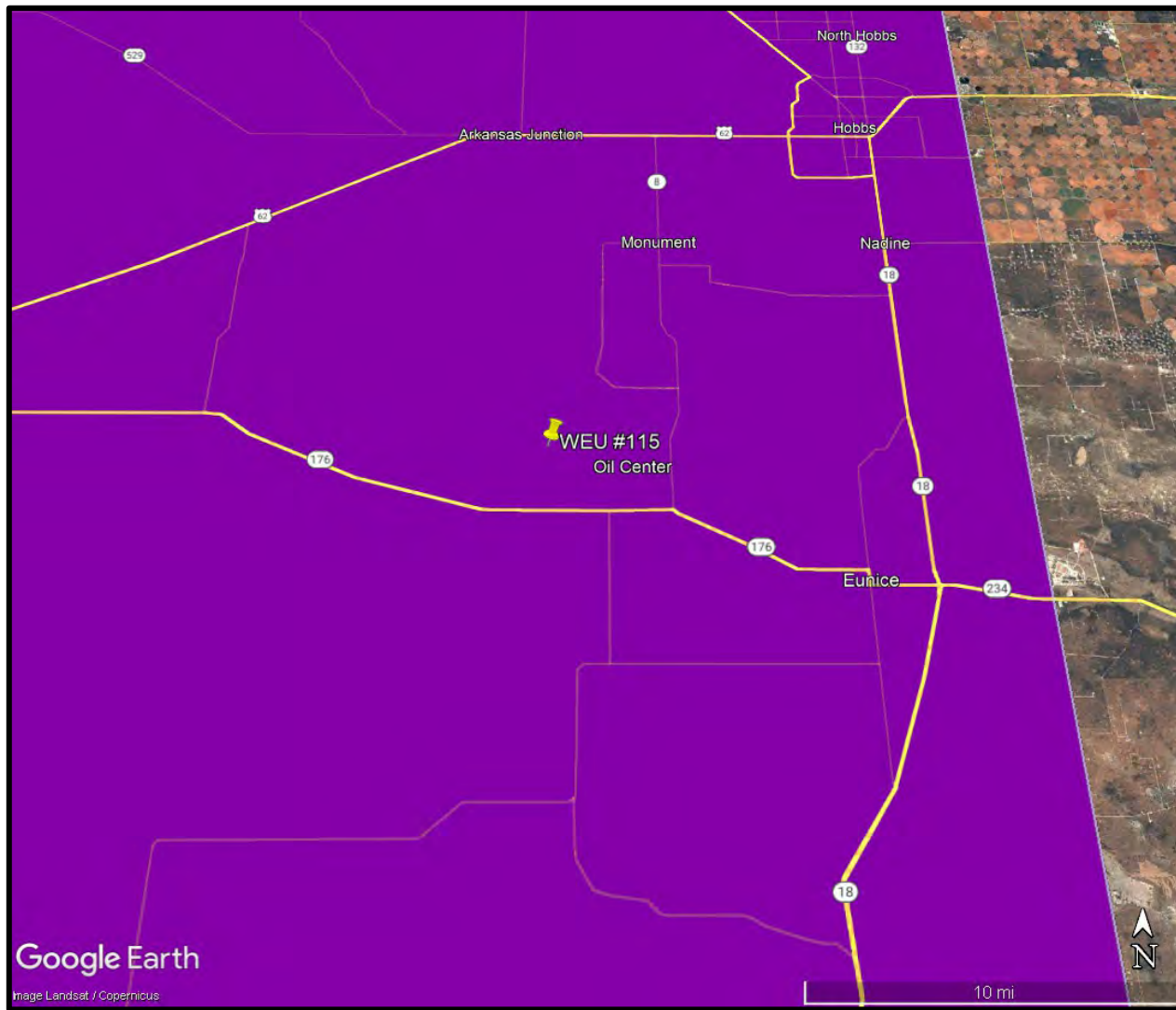
Drafted by: CC | Checked by: CC


Draft: July 13, 2024

GPS: 32.504256° -103.329739°







<b>LEGEND:</b> <div><div></div> Low Karst Potential</div> <div><div></div> Medium Karst Potential</div> <div><div></div> High Karst Potential</div> Base Map from Google Earth Pro	<b>Figure 6</b> <b>Karst Potential Map</b>  Forty Acres Energy, LLC West Eumont Unit #115 Lea County, New Mexico		
		Drafted by: CC   Checked by: CC	
		Draft: July 13, 2024	
		GPS: 32.504256° -103.329739°	



---

**Appendix A: Release Notification and Corrective Action Form  
(NMOCD Form C-141)**

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	NAPP2316654395
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	Forty Acres Energy	OGRID	371416
Contact Name	Alex Bolanos	Contact Telephone	832-689-3788
Contact email	alex@faenergyus.com	Incident # (assigned by OCD)	nAPP2316654395
Contact mailing address	11757 Katy Fwy Suite 725, Houston, TX 77079		

Location of Release Source

Latitude 32.504256 Longitude -103.329739  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	West Eumont Unit #115	Site Type	Water Injection Well
Date Release Discovered	5/26/2023	API# (if applicable)	30-025-50031

Unit Letter	Section	Township	Range	County
M	01	21 S	35E	Lea

Surface Owner: ☒ State ☐ Federal ☐ Tribal ☐ Private (Name: State of New Mexico)

Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 15 bbls	Volume Recovered (bbls) 5 bbls
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

There was a hole in the injection line.

Incident ID	NAPP2316654395
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?  <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?  Yes, Jame Martinez put a call into Mike Bratsher on 5/26/2023.	

## Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Alex Bolanos</u>	Title: <u>Regulatory &amp; Production Analyst</u>
Signature: <u><i>Alex Bolanos</i></u>	Date: <u>8/29/23</u>
email: <u>alex@faenergyus.com</u>	Telephone: <u>832-689-3788</u>
<b><u>OCD Only</u></b>	
Received by: <u>Shelly Wells</u>	Date: <u>9/1/2023</u>

Released Volume Calculation	
Length	100 feet
Width	5 feet
Thickness	2 cm
	1000
Volume = L*W*T	
Total Released Volume =	1000 gallons (US, dry)
	15.00 bbls

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

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

CONDITIONS  
  
Action 258729

CONDITIONS

Operator: FORTY ACRES ENERGY, LLC 11757 KATY FWY HOUSTON, TX 77079173	OGRID: 371416
	Action Number: 258729
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
scwells	None	9/1/2023

Incident ID	nAPP2316654395
District RP	
Facility ID	
Application ID	

## Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>&lt; 50</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ 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.

State of New Mexico  
Oil Conservation Division

Page 4

Incident ID	nAPP2316654395
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.

Printed Name: Cindy Crain

Title: Agent for Forty Acres Energy, LLC

Signature: 

Date: 7/14/24

email: cindy.crain@gmail.com

Telephone: (575) 441-7244

**OCD Only**

Received by: \_\_\_\_\_

Date: \_\_\_\_\_



Incident ID	nAPP2316654395
District RP	
Facility ID	
Application ID	

## Remediation Plan

**Remediation Plan Checklist:** *Each of the following items must be included in the plan.*

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

**Deferral Requests Only:** *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: Cindy CrainTitle: Agent for Forty Acres Energy, LLCSignature: Date: 7/14/24email: cindy.crain@gmail.comTelephone: (575) 441-7244**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Incident ID	nAPP2316654395
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.

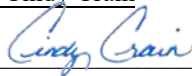
**Closure Report Attachment Checklist:** *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

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

Printed Name: Cindy Crain

Title: Agent for Forty Acres Energy, LLC

Signature: 

Date: 1/21/25

email: cindy.crain@gmail.com

Telephone: (575) 441-7244

**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 and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Printed Name: \_\_\_\_\_

Title: \_\_\_\_\_



---

## Appendix B: NMOCD Correspondence

## Forty Acres Energy\_\_C-141 Extension Requests

Inbox



**Alex Bolanos**

to Nelson,, Ryan, me

Oct 14, 2024, 10:35 AM

Nelson,

Our environmental consultant is working to finishing up work in the West Eumont Area for Forty Acres. However, we will need a little more time to complete remediation and samplin have closure reports completed on the following dates:

- WEU 410 - nAPP2404472013: **October 15, 2024**
- WEU 210 - nAPP2404471333: **October 21, 2024**
- WEU 407 - nAPP2316652967: **October 22, 2024**
- WEU Injection - nAPP2316651719: **October 21, 2024**
- WEU 115 - nAPP2316654395: **October 21, 2024**
- WEU 115C - nAPP2319562381: **October 22, 2024**
- RR Bell TB - nAPP2405454076: **November 4, 2024**
- WEU 525 - nAPP2405856306: **November 12, 2024**

Accordingly, we would like the following extensions in to complete work in this area:

- WEU 410 - nAPP2404472013: **30 days extension**
- WEU 210 - nAPP2404471333: **90 days extension**
- WEU 407 - nAPP2316652967: **30 days extension**
- WEU Injection - nAPP2316651719: **90 days extension**
- WEU 115 - nAPP2316654395: **90 days extension**
- WEU 115C - nAPP2319562381: **90 days extension**
- RR Bell TB - nAPP2405454076: **90 days extension**
- WEU 525 - nAPP2405856306: **90 days extension**

If you have any questions or need any additional information, please advise.

Thanks,

Alex Bolanos

Forty Acres Energy

[alex@faenergyus.com](mailto:alex@faenergyus.com)

(832) 689-3788



**Velez, Nelson, EMNRD**

to Alex, Ryan, me

Oct 15, 2024, 4:18 PM

Good afternoon Alex,

Thank you for the correspondence. All eight (8) time extensions had been approved for the time requested (see below).

- |   |            |
|---|------------|
| • WEU 410 - nAPP2404472013: 30 days extension       | 11/14/2024 |
| • WEU 210 - nAPP2404471333: 90 days extension       | 01/21/2025 |
| • WEU 407 - nAPP2316652967: 30 days extension       | 11/21/2024 |
| • WEU Injection - nAPP2316651719: 90 days extension | 01/21/2025 |
| • WEU 115 - nAPP2316654395: 90 days extension       | 01/21/2025 |
| • WEU 115C - nAPP2319562381: 90 days extension      | 01/21/2025 |
| • RR Bell TB - nAPP2405454076: 90 days extension    | 02/03/2025 |
| • WEU 525 - nAPP2405856306: 90 days extension       | 02/10/2025 |

Please keep a copy of this communication for inclusion within the appropriate reporting documentation.

If you have any questions, please contact me via email at your convenience.

Thanks again

Regards,

**Nelson Velez** • Environmental Specialist - Adv  
Environmental Bureau | EMNRD - Oil Conservation Division  
1000 Rio Brazos Road | Aztec, NM 87410  
(505) 469-6146 | [nelson.velez@emnrd.nm.gov](mailto:nelson.velez@emnrd.nm.gov)  
<http://www.emnrd.nm.gov/ocd>





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## Appendix C: Laboratory Report and Chain-of-Custody Documentation



Environment Testing

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# ANALYTICAL REPORT

## PREPARED FOR

Attn: Cindy Crain  
Crain Environmental  
2925 E. 17th St.  
Odessa, Texas 79761

Generated 12/10/2024 9:56:58 AM

## JOB DESCRIPTION

WEU 115  
Lea Co, NM

## JOB NUMBER

880-51907-1

Eurofins Midland  
1211 W. Florida Ave  
Midland TX 79701

# Eurofins Midland

## Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

## Authorization



Generated  
12/10/2024 9:56:58 AM

Authorized for release by  
Jessica Kramer, Project Manager  
[Jessica.Kramer@et.eurofinsus.com](mailto:Jessica.Kramer@et.eurofinsus.com)  
(432)704-5440



Client: Crain Environmental  
Project/Site: WEU 115

Laboratory Job ID: 880-51907-1  
SDG: Lea Co, NM

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Definitions/Glossary

Client: Crain Environmental  
Project/Site: WEU 115

Job ID: 880-51907-1  
SDG: Lea Co, NM

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

## Case Narrative

Client: Crain Environmental  
Project: WEU 115

Job ID: 880-51907-1

**Job ID: 880-51907-1**

**Eurofins Midland**

### Job Narrative 880-51907-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

#### Receipt

The samples were received on 12/6/2024 2:10 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -2.4°C.

#### HPLC/IC

Method 300\_ORGFM\_28D - Soluble: The Chloride matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-97374 and analytical batch 880-97394 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

The associated samples are: DS-13 (0-3') (880-51907-11), DS-14 (0-3') (880-51907-12), DS-15 (0-3') (880-51907-13), DS-16 (0-3') (880-51907-14), DS-17 (0-4') (880-51907-15), DS-18 (0-4') (880-51907-16), DS-19 (0-4') (880-51907-17), DS-20 (0-4') (880-51907-18), DS-21 (0-4') (880-51907-19), (880-51907-A-11-B MS) and (880-51907-A-11-C MSD).

Method 300\_ORGFM\_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-97376 and analytical batch 880-97397 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Midland

## Client Sample Results

Client: Crain Environmental  
Project/Site: WEU 115

Job ID: 880-51907-1  
SDG: Lea Co, NM

## Client Sample ID: DS-3 (0-3')

Lab Sample ID: 880-51907-1

Date Collected: 12/05/24 10:50

Matrix: Solid

Date Received: 12/06/24 14:10

Sample Depth: 0-3'

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	65.5		9.98		mg/Kg			12/09/24 13:37	1

## Client Sample ID: DS-5 (0-3')

Lab Sample ID: 880-51907-2

Date Collected: 12/05/24 10:55

Matrix: Solid

Date Received: 12/06/24 14:10

Sample Depth: 0-3'

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	54.8		10.0		mg/Kg			12/09/24 13:52	1

## Client Sample ID: DS-4 (3')

Lab Sample ID: 880-51907-3

Date Collected: 12/05/24 11:00

Matrix: Solid

Date Received: 12/06/24 14:10

Sample Depth: 3'

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	49.6		10.1		mg/Kg			12/09/24 13:58	1

## Client Sample ID: DS-2 (0-3')

Lab Sample ID: 880-51907-4

Date Collected: 12/05/24 11:05

Matrix: Solid

Date Received: 12/06/24 14:10

Sample Depth: 0-3'

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	51.8		9.92		mg/Kg			12/09/24 14:03	1

## Client Sample ID: DS-1 (0-6')

Lab Sample ID: 880-51907-5

Date Collected: 12/05/24 11:10

Matrix: Solid

Date Received: 12/06/24 14:10

Sample Depth: 0-4'

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	77.1		10.0		mg/Kg			12/09/24 14:08	1

## Client Sample ID: DS-11 (0-6')

Lab Sample ID: 880-51907-6

Date Collected: 12/05/24 11:15 Date

Matrix: Solid

Received: 12/06/24 14:10 Sample

Depth: 0-4'

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	51.9		9.94		mg/Kg			12/09/24 14:24	1

Eurofins Midland

## Client Sample Results

Client: Crain Environmental  
Project/Site: WEU 115

Job ID: 880-51907-1  
SDG: Lea Co, NM

## Client Sample ID: DS-8 (0-4')

Lab Sample ID: 880-51907-7

Date Collected: 12/05/24 11:20

Matrix: Solid

Date Received: 12/06/24 14:10

Sample Depth: 0-4'

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	53.3		9.92		mg/Kg			12/09/24 14:29	1

## Client Sample ID: DS-7 (6')

Lab Sample ID: 880-51907-8

Date Collected: 12/05/24 11:25

Matrix: Solid

Date Received: 12/06/24 14:10

Sample Depth: 4.1'

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	47.4		10.0		mg/Kg			12/09/24 14:34	1

## Client Sample ID: DS-9 (0-6')

Lab Sample ID: 880-51907-9

Date Collected: 12/05/24 11:30

Matrix: Solid

Date Received: 12/06/24 14:10

Sample Depth: 0-4'

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	55.5		9.96		mg/Kg			12/09/24 14:40	1

## Client Sample ID: DS-12 (0-3')

Lab Sample ID: 880-51907-10

Date Collected: 12/05/24 11:35

Matrix: Solid

Date Received: 12/06/24 14:10

Sample Depth: 0-3'

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	55.1		9.98		mg/Kg			12/09/24 14:45	1

## Client Sample ID: DS-13 (0-3')

Lab Sample ID: 880-51907-11

Date Collected: 12/05/24 11:40

Matrix: Solid

Date Received: 12/06/24 14:10

Sample Depth: 0-3'

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	64.5	F1	9.94		mg/Kg			12/09/24 14:50	1

## Client Sample ID: DS-14 (0-3')

Lab Sample ID: 880-51907-12

Date Collected: 12/05/24 11:45

Matrix: Solid

Date Received: 12/06/24 14:10

Sample Depth: 0-3'

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	53.4		9.92		mg/Kg			12/09/24 15:06	1

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## Client Sample Results

Client: Crain Environmental  
Project/Site: WEU 115

Job ID: 880-51907-1  
SDG: Lea Co, NM

## Client Sample ID: DS-15 (0-3')

Date Collected: 12/05/24 11:50

Date Received: 12/06/24 14:10

Sample Depth: 0-3'

## Lab Sample ID: 880-51907-13

Matrix: Solid

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	93.1		10.0		mg/Kg			12/09/24 15:11	1

## Client Sample ID: DS-16 (0-3')

Date Collected: 12/05/24 11:55

Date Received: 12/06/24 14:10

Sample Depth: 0-3'

## Lab Sample ID: 880-51907-14

Matrix: Solid

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	95.3		9.96		mg/Kg			12/09/24 15:27	1

## Client Sample ID: DS-17 (0-4')

Date Collected: 12/05/24 12:00

Date Received: 12/06/24 14:10

Sample Depth: 0-4'

## Lab Sample ID: 880-51907-15

Matrix: Solid

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	81.5		10.1		mg/Kg			12/09/24 15:33	1

## Client Sample ID: DS-18 (0-4')

Date Collected: 12/05/24 12:05

Date Received: 12/06/24 14:10

Sample Depth: 0-4'

## Lab Sample ID: 880-51907-16

Matrix: Solid

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	80.9		9.92		mg/Kg			12/09/24 15:38	1

## Client Sample ID: DS-19 (0-4')

Date Collected: 12/05/24 12:10

Date Received: 12/06/24 14:10

Sample Depth: 0-4'

## Lab Sample ID: 880-51907-17

Matrix: Solid

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	71.3		10.0		mg/Kg			12/09/24 15:43	1

## Client Sample ID: DS-20 (0-4')

Date Collected: 12/05/24 12:15

Date Received: 12/06/24 14:10

Sample Depth: 0-4'

## Lab Sample ID: 880-51907-18

Matrix: Solid

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	62.3		9.96		mg/Kg			12/09/24 15:48	1

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## Client Sample Results

Client: Crain Environmental  
Project/Site: WEU 115

Job ID: 880-51907-1  
SDG: Lea Co, NM

## Client Sample ID: DS-21 (0-4')

Date Collected: 12/05/24 12:20

Date Received: 12/06/24 14:10

Sample Depth: 0-4'

## Lab Sample ID: 880-51907-19

Matrix: Solid

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	67.8		10.1		mg/Kg			12/09/24 15:54	1

## Client Sample ID: DS-22 (0-6')

Date Collected: 12/05/24 12:25

Date Received: 12/06/24 14:10

Sample Depth: 0-4'

## Lab Sample ID: 880-51907-20

Matrix: Solid

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	44.4		10.0		mg/Kg			12/09/24 15:59	1

## Client Sample ID: DS-23 (0-6')

Date Collected: 12/05/24 12:30

Date Received: 12/06/24 14:10

Sample Depth: 0-4'

## Lab Sample ID: 880-51907-21

Matrix: Solid

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	72.2	F1	10.1		mg/Kg			12/09/24 18:34	1

## Client Sample ID: DS-24 (0-6')

Date Collected: 12/05/24 12:35

Date Received: 12/06/24 14:10

Sample Depth: 0-4'

## Lab Sample ID: 880-51907-22

Matrix: Solid

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	92.1		10.1		mg/Kg			12/09/24 18:55	1

## Client Sample ID: DS-25 (0-3')

Date Collected: 12/05/24 12:40

Date Received: 12/06/24 14:10

Sample Depth: 0-3'

## Lab Sample ID: 880-51907-23

Matrix: Solid

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	69.7		10.1		mg/Kg			12/09/24 19:02	1

## Client Sample ID: DS-26 (0-3')

Date Collected: 12/05/24 12:45

Date Received: 12/06/24 14:10

Sample Depth: 0-3'

## Lab Sample ID: 880-51907-24

Matrix: Solid

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	91.5		10.1		mg/Kg			12/09/24 19:09	1

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## Client Sample Results

Client: Crain Environmental  
Project/Site: WEU 115

Job ID: 880-51907-1  
SDG: Lea Co, NM

## Client Sample ID: DS-27 (0-3')

Lab Sample ID: 880-51907-25

Date Collected: 12/05/24 12:50

Matrix: Solid

Date Received: 12/06/24 14:10

Sample Depth: 0-3'

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	113		10.0		mg/Kg			12/09/24 19:16	1

## Client Sample ID: DS-28 (0-3')

Lab Sample ID: 880-51907-26

Date Collected: 12/05/24 12:55

Matrix: Solid

Date Received: 12/06/24 14:10

Sample Depth: 0-3'

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	71.5		10.0		mg/Kg			12/09/24 19:36	1

## Client Sample ID: DS-29 (3')

Lab Sample ID: 880-51907-27

Date Collected: 12/05/24 13:00

Matrix: Solid

Date Received: 12/06/24 14:10

Sample Depth: 3'

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	70.0		10.0		mg/Kg			12/09/24 19:43	1

## Client Sample ID: DS-30 (3')

Lab Sample ID: 880-51907-28

Date Collected: 12/05/24 13:05

Matrix: Solid

Date Received: 12/06/24 14:10

Sample Depth: 3'

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	69.0		9.92		mg/Kg			12/09/24 19:50	1

## Client Sample ID: DS-31 (3')

Lab Sample ID: 880-51907-29

Date Collected: 12/05/24 13:10

Matrix: Solid

Date Received: 12/06/24 14:10

Sample Depth: 3'

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	68.9		9.96		mg/Kg			12/09/24 19:57	1

## Client Sample ID: DS-32 (3')

Lab Sample ID: 880-51907-30

Date Collected: 12/05/24 13:15

Matrix: Solid

Date Received: 12/06/24 14:10

Sample Depth: 3'

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	71.3		10.1		mg/Kg			12/09/24 20:04	1

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## Client Sample Results

Client: Crain Environmental  
Project/Site: WEU 115

Job ID: 880-51907-1  
SDG: Lea Co, NM

## Client Sample ID: DS-33 (3')

Date Collected: 12/05/24 13:20

Date Received: 12/06/24 14:10

Sample Depth: 3'

## Lab Sample ID: 880-51907-31

Matrix: Solid

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	88.5	F1	10.0		mg/Kg			12/09/24 20:11	1

## Client Sample ID: DS-34 (6')

Date Collected: 12/05/24 13:25

Date Received: 12/06/24 14:10

Sample Depth: 4.1'

## Lab Sample ID: 880-51907-32

Matrix: Solid

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	95.6		10.1		mg/Kg			12/09/24 20:31	1

## Client Sample ID: DS-35 (6')

Date Collected: 12/05/24 13:30

Date Received: 12/06/24 14:10

Sample Depth: 4.1'

## Lab Sample ID: 880-51907-33

Matrix: Solid

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	68.6		9.98		mg/Kg			12/09/24 20:38	1

## Client Sample ID: DS-36 (4.1')

Date Collected: 12/05/24 13:35

Date Received: 12/06/24 14:10

Sample Depth: 4.1'

## Lab Sample ID: 880-51907-34

Matrix: Solid

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	74.7		9.98		mg/Kg			12/09/24 20:59	1

## Client Sample ID: DS-37 (4.1')

Date Collected: 12/05/24 13:40

Date Received: 12/06/24 14:10

Sample Depth: 4.1'

## Lab Sample ID: 880-51907-35

Matrix: Solid

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	69.6		9.92		mg/Kg			12/09/24 21:05	1

## Client Sample ID: DS-38 (4.1')

Date Collected: 12/05/24 13:45

Date Received: 12/06/24 14:10

Sample Depth: 4.1'

## Lab Sample ID: 880-51907-36

Matrix: Solid

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	160		10.1		mg/Kg			12/09/24 21:12	1

Eurofins Midland

Client Sample Results

Client: Crain Environmental  
Project/Site: WEU 115

Job ID: 880-51907-1  
SDG: Lea Co, NM

Client Sample ID: DS-39 (6')  
Date Collected: 12/05/24 13:50  
Date Received: 12/06/24 14:10  
Sample Depth: 4.1'

Lab Sample ID: 880-51907-37  
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	342		9.94		mg/Kg			12/09/24 21:19	1

Client Sample ID: DS-40 (6')  
Date Collected: 12/05/24 13:55  
Date Received: 12/06/24 14:10  
Sample Depth: 4.1'

Lab Sample ID: 880-51907-38  
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	499		10.0		mg/Kg			12/09/24 21:26	1

Client Sample ID: DS-41 (6')  
Date Collected: 12/05/24 14:00  
Date Received: 12/06/24 14:10  
Sample Depth: 4.1'

Lab Sample ID: 880-51907-39  
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	322		9.92		mg/Kg			12/09/24 21:33	1

## QC Sample Results

Client: Crain Environmental  
Project/Site: WEU 115

Job ID: 880-51907-1  
SDG: Lea Co, NM

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-97374/1-A

Matrix: Solid

Analysis Batch: 97394

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			12/09/24 13:21	1

Lab Sample ID: LCS 880-97374/2-A

Matrix: Solid

Analysis Batch: 97394

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	230.4		mg/Kg		92	90 - 110

Lab Sample ID: LCSD 880-97374/3-A

Matrix: Solid

Analysis Batch: 97394

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	231.2		mg/Kg		92	90 - 110	0	20

Lab Sample ID: 880-51907-1 MS

Matrix: Solid

Analysis Batch: 97394

Client Sample ID: DS-3 (0-3')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	65.5		250	295.7		mg/Kg		92	90 - 110

Lab Sample ID: 880-51907-1 MSD

Matrix: Solid

Analysis Batch: 97394

Client Sample ID: DS-3 (0-3')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	65.5		250	296.3		mg/Kg		93	90 - 110	0	20

Lab Sample ID: 880-51907-11 MS

Matrix: Solid

Analysis Batch: 97394

Client Sample ID: DS-13 (0-3')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	64.5	F1	249	285.5	F1	mg/Kg		89	90 - 110

Lab Sample ID: 880-51907-11 MSD

Matrix: Solid

Analysis Batch: 97394

Client Sample ID: DS-13 (0-3')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	64.5	F1	249	286.5	F1	mg/Kg		89	90 - 110	0	20

Lab Sample ID: MB 880-97376/1-A

Matrix: Solid

Analysis Batch: 97397

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			12/09/24 18:14	1

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## QC Sample Results

Client: Crain Environmental  
Project/Site: WEU 115

Job ID: 880-51907-1  
SDG: Lea Co, NM

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 880-97376/2-A

Matrix: Solid

Analysis Batch: 97397

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	261.0		mg/Kg		104	90 - 110

Lab Sample ID: LCSD 880-97376/3-A

Matrix: Solid

Analysis Batch: 97397

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	273.7		mg/Kg		109	90 - 110	5	20

Lab Sample ID: 880-51907-21 MS

Matrix: Solid

Analysis Batch: 97397

Client Sample ID: DS-23 (0-4')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	72.2	F1	252	369.7	F1	mg/Kg		118	90 - 110

Lab Sample ID: 880-51907-21 MSD

Matrix: Solid

Analysis Batch: 97397

Client Sample ID: DS-23 (0-4')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	72.2	F1	252	352.4	F1	mg/Kg		111	90 - 110	5	20

Lab Sample ID: 880-51907-31 MS

Matrix: Solid

Analysis Batch: 97397

Client Sample ID: DS-33 (3')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	88.5	F1	250	366.2	F1	mg/Kg		111	90 - 110

Lab Sample ID: 880-51907-31 MSD

Matrix: Solid

Analysis Batch: 97397

Client Sample ID: DS-33 (3')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	88.5	F1	250	332.5		mg/Kg		98	90 - 110	10	20

## QC Association Summary

Client: Crain Environmental  
Project/Site: WEU 115

Job ID: 880-51907-1  
SDG: Lea Co, NM

## HPLC/IC

## Leach Batch: 97374

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51907-1	DS-3 (0-3')	Soluble	Solid	DI Leach	
880-51907-2	DS-5 (0-3')	Soluble	Solid	DI Leach	
880-51907-3	DS-4 (3')	Soluble	Solid	DI Leach	
880-51907-4	DS-2 (0-3')	Soluble	Solid	DI Leach	
880-51907-5	DS-1 (0-6')	Soluble	Solid	DI Leach	
880-51907-6	DS-11 (0-6')	Soluble	Solid	DI Leach	
880-51907-7	DS-8 (0-4')	Soluble	Solid	DI Leach	
880-51907-8	DS-7 (6')	Soluble	Solid	DI Leach	
880-51907-9	DS-9 (0-6')	Soluble	Solid	DI Leach	
880-51907-10	DS-12 (0-3')	Soluble	Solid	DI Leach	
880-51907-11	DS-13 (0-3')	Soluble	Solid	DI Leach	
880-51907-12	DS-14 (0-3')	Soluble	Solid	DI Leach	
880-51907-13	DS-15 (0-3')	Soluble	Solid	DI Leach	
880-51907-14	DS-16 (0-3')	Soluble	Solid	DI Leach	
880-51907-15	DS-17 (0-4')	Soluble	Solid	DI Leach	
880-51907-16	DS-18 (0-4')	Soluble	Solid	DI Leach	
880-51907-17	DS-19 (0-4')	Soluble	Solid	DI Leach	
880-51907-18	DS-20 (0-4')	Soluble	Solid	DI Leach	
880-51907-19	DS-21 (0-4')	Soluble	Solid	DI Leach	
880-51907-20	DS-22 (0-6')	Soluble	Solid	DI Leach	
MB 880-97374/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-97374/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-97374/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-51907-1 MS	DS-3 (0-3')	Soluble	Solid	DI Leach	
880-51907-1 MSD	DS-3 (0-3')	Soluble	Solid	DI Leach	
880-51907-11 MS	DS-13 (0-3')	Soluble	Solid	DI Leach	
880-51907-11 MSD	DS-13 (0-3')	Soluble	Solid	DI Leach	

## Leach Batch: 97376

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51907-21	DS-23 (0-6')	Soluble	Solid	DI Leach	
880-51907-22	DS-24 (0-6')	Soluble	Solid	DI Leach	
880-51907-23	DS-25 (0-3')	Soluble	Solid	DI Leach	
880-51907-24	DS-26 (0-3')	Soluble	Solid	DI Leach	
880-51907-25	DS-27 (0-3')	Soluble	Solid	DI Leach	
880-51907-26	DS-28 (0-3')	Soluble	Solid	DI Leach	
880-51907-27	DS-29 (3')	Soluble	Solid	DI Leach	
880-51907-28	DS-30 (3')	Soluble	Solid	DI Leach	
880-51907-29	DS-31 (3')	Soluble	Solid	DI Leach	
880-51907-30	DS-32 (3')	Soluble	Solid	DI Leach	
880-51907-31	DS-33 (3')	Soluble	Solid	DI Leach	
880-51907-32	DS-34 (6')	Soluble	Solid	DI Leach	
880-51907-33	DS-35 (6')	Soluble	Solid	DI Leach	
880-51907-34	DS-36 (4.1')	Soluble	Solid	DI Leach	
880-51907-35	DS-37 (4.1')	Soluble	Solid	DI Leach	
880-51907-36	DS-38 (4.1')	Soluble	Solid	DI Leach	
880-51907-37	DS-39 (6')	Soluble	Solid	DI Leach	
880-51907-38	DS-40 (6')	Soluble	Solid	DI Leach	
880-51907-39	DS-41 (6')	Soluble	Solid	DI Leach	
MB 880-97376/1-A	Method Blank Lab	Soluble	Solid	DI Leach	
LCS 880-97376/2-A	Control Sample	Soluble	Solid	DI Leach	

Eurofins Midland

## QC Association Summary

Client: Crain Environmental  
Project/Site: WEU 115

Job ID: 880-51907-1  
SDG: Lea Co, NM

## HPLC/IC (Continued)

## Leach Batch: 97376 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-97376/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-51907-21 MS	DS-23 (0-4')	Soluble	Solid	DI Leach	
880-51907-21 MSD	DS-23 (0-4')	Soluble	Solid	DI Leach	
880-51907-31 MS	DS-33 (3')	Soluble	Solid	DI Leach	
880-51907-31 MSD	DS-33 (3')	Soluble	Solid	DI Leach	

## Analysis Batch: 97394

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51907-1	DS-3 (0-3')	Soluble	Solid	300.0	97374
880-51907-2	DS-5 (0-3')	Soluble	Solid	300.0	97374
880-51907-3	DS-4 (3')	Soluble	Solid	300.0	97374
880-51907-4	DS-2 (0-3')	Soluble	Solid	300.0	97374
880-51907-5	DS-1 (0-4')	Soluble	Solid	300.0	97374
880-51907-6	DS-11 (4.1')	Soluble	Solid	300.0	97374
880-51907-7	DS-8 (0-4')	Soluble	Solid	300.0	97374
880-51907-8	DS-7 (6')	Soluble	Solid	300.0	97374
880-51907-9	DS-9 (0-6')	Soluble	Solid	300.0	97374
880-51907-10	DS-12 (0-3')	Soluble	Solid	300.0	97374
880-51907-11	DS-13 (0-3')	Soluble	Solid	300.0	97374
880-51907-12	DS-14 (0-3')	Soluble	Solid	300.0	97374
880-51907-13	DS-15 (0-3')	Soluble	Solid	300.0	97374
880-51907-14	DS-16 (0-3')	Soluble	Solid	300.0	97374
880-51907-15	DS-17 (0-4')	Soluble	Solid	300.0	97374
880-51907-16	DS-18 (0-4')	Soluble	Solid	300.0	97374
880-51907-17	DS-19 (0-4')	Soluble	Solid	300.0	97374
880-51907-18	DS-20 (0-4')	Soluble	Solid	300.0	97374
880-51907-19	DS-21 (0-4')	Soluble	Solid	300.0	97374
880-51907-20	DS-22 (0-6')	Soluble	Solid	300.0	97374
MB 880-97374/1-A	Method Blank	Soluble	Solid	300.0	97374
LCS 880-97374/2-A	Lab Control Sample	Soluble	Solid	300.0	97374
LCSD 880-97374/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	97374
880-51907-1 MS	DS-3 (0-3')	Soluble	Solid	300.0	97374
880-51907-1 MSD	DS-3 (0-3')	Soluble	Solid	300.0	97374
880-51907-11 MS	DS-13 (0-3')	Soluble	Solid	300.0	97374
880-51907-11 MSD	DS-13 (0-3')	Soluble	Solid	300.0	97374

## Analysis Batch: 97397

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51907-21	DS-23 (0-6')	Soluble	Solid	300.0	97376
880-51907-22	DS-24 (0-6')	Soluble	Solid	300.0	97376
880-51907-23	DS-25 (0-3')	Soluble	Solid	300.0	97376
880-51907-24	DS-26 (0-3')	Soluble	Solid	300.0	97376
880-51907-25	DS-27 (0-3')	Soluble	Solid	300.0	97376
880-51907-26	DS-28 (0-3')	Soluble	Solid	300.0	97376
880-51907-27	DS-29 (3')	Soluble	Solid	300.0	97376
880-51907-28	DS-30 (3')	Soluble	Solid	300.0	97376
880-51907-29	DS-31 (3')	Soluble	Solid	300.0	97376
880-51907-30	DS-32 (3')	Soluble	Solid	300.0	97376
880-51907-31	DS-33 (3')	Soluble	Solid	300.0	97376
880-51907-32	DS-34 (6')	Soluble	Solid	300.0	97376
880-51907-33	DS-35 (6')	Soluble	Solid	300.0	97376

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QC Association Summary

Client: Crain Environmental  
Project/Site: WEU 115

Job ID: 880-51907-1  
SDG: Lea Co, NM

HPLC/IC (Continued)

Analysis Batch: 97397 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51907-34	DS-36 (4.1')	Soluble	Solid	300.0	97376
880-51907-35	DS-37 (4.1')	Soluble	Solid	300.0	97376
880-51907-36	DS-38 (4.1')	Soluble	Solid	300.0	97376
880-51907-37	DS-39 (6')	Soluble	Solid	300.0	97376
880-51907-38	DS-40 (6')	Soluble	Solid	300.0	97376
880-51907-39	DS-41 (6')	Soluble	Solid	300.0	97376
MB 880-97376/1-A	Method Blank Lab	Soluble	Solid	300.0	97376
LCS 880-97376/2-A	Control Sample	Soluble	Solid	300.0	97376
LCSD 880-97376/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	97376
880-51907-21 MS	DS-23 (0-6')	Soluble	Solid	300.0	97376
880-51907-21 MSD	DS-23 (0-6')	Soluble	Solid	300.0	97376
880-51907-31 MS	DS-33 (3')	Soluble	Solid	300.0	97376
880-51907-31 MSD	DS-33 (3')	Soluble	Solid	300.0	97376

## Lab Chronicle

Client: Crain Environmental  
Project/Site: WEU 115

Job ID: 880-51907-1  
SDG: Lea Co, NM

Client Sample ID: DS-3 (0-3')

Lab Sample ID: 880-51907-1

Date Collected: 12/05/24 10:50

Matrix: Solid

Date Received: 12/06/24 14:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	97374	12/09/24 09:54	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97394	12/09/24 13:37	SMC	EET MID

Client Sample ID: DS-5 (0-3')

Lab Sample ID: 880-51907-2

Date Collected: 12/05/24 10:55

Matrix: Solid

Date Received: 12/06/24 14:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.00 g	50 mL	97374	12/09/24 09:54	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97394	12/09/24 13:52	SMC	EET MID

Client Sample ID: DS-4 (3')

Lab Sample ID: 880-51907-3

Date Collected: 12/05/24 11:00

Matrix: Solid

Date Received: 12/06/24 14:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	97374	12/09/24 09:54	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97394	12/09/24 13:58	SMC	EET MID

Client Sample ID: DS-2 (0-3')

Lab Sample ID: 880-51907-4

Date Collected: 12/05/24 11:05

Matrix: Solid

Date Received: 12/06/24 14:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	97374	12/09/24 09:54	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97394	12/09/24 14:03	SMC	EET MID

Client Sample ID: DS-1 (0-6')

Lab Sample ID: 880-51907-5

Date Collected: 12/05/24 11:10

Matrix: Solid

Date Received: 12/06/24 14:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	97374	12/09/24 09:54	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97394	12/09/24 14:08	SMC	EET MID

Client Sample ID: DS-11  
(0-6')

Lab Sample ID: 880-51907-6

Date Collected: 12/05/24 11:15

Matrix: Solid

Date Received: 12/06/24 14:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	97374	12/09/24 09:54	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97394	12/09/24 14:24	SMC	EET MID

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## Lab Chronicle

Client: Crain Environmental  
Project/Site: WEU 115

Job ID: 880-51907-1  
SDG: Lea Co, NM

**Client Sample ID: DS-8 (0-4')****Lab Sample ID: 880-51907-7****Date Collected: 12/05/24 11:20****Matrix: Solid****Date Received: 12/06/24 14:10**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	97374	12/09/24 09:54	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97394	12/09/24 14:29	SMC	EET MID

**Client Sample ID: DS-7 (6')****Lab Sample ID: 880-51907-8****Date Collected: 12/05/24 11:25****Matrix: Solid****Date Received: 12/06/24 14:10**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	97374	12/09/24 09:54	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97394	12/09/24 14:34	SMC	EET MID

**Client Sample ID: DS-9 (0-6')****Lab Sample ID: 880-51907-9****Date Collected: 12/05/24 11:30****Matrix: Solid****Date Received: 12/06/24 14:10**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	97374	12/09/24 09:54	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97394	12/09/24 14:40	SMC	EET MID

**Client Sample ID: DS-12 (0-3')****Lab Sample ID: 880-51907-10****Date Collected: 12/05/24 11:35****Matrix: Solid****Date Received: 12/06/24 14:10**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	97374	12/09/24 09:54	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97394	12/09/24 14:45	SMC	EET MID

**Client Sample ID: DS-13 (0-3')****Lab Sample ID: 880-51907-11****Date Collected: 12/05/24 11:40****Matrix: Solid****Date Received: 12/06/24 14:10**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	97374	12/09/24 09:54	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97394	12/09/24 14:50	SMC	EET MID

**Client Sample ID: DS-14 (0-3')****Lab Sample ID: 880-51907-12****Date Collected: 12/05/24 11:45****Matrix: Solid****Date Received: 12/06/24 14:10**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	97374	12/09/24 09:54	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97394	12/09/24 15:06	SMC	EET MID

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## Lab Chronicle

Client: Crain Environmental  
Project/Site: WEU 115

Job ID: 880-51907-1  
SDG: Lea Co, NM

## Client Sample ID: DS-15 (0-3')

Date Collected: 12/05/24 11:50

Date Received: 12/06/24 14:10

## Lab Sample ID: 880-51907-13

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	97374	12/09/24 09:54	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97394	12/09/24 15:11	SMC	EET MID

## Client Sample ID: DS-16 (0-3')

Date Collected: 12/05/24 11:55

Date Received: 12/06/24 14:10

## Lab Sample ID: 880-51907-14

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	97374	12/09/24 09:54	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97394	12/09/24 15:27	SMC	EET MID

## Client Sample ID: DS-17 (0-4')

Date Collected: 12/05/24 12:00

Date Received: 12/06/24 14:10

## Lab Sample ID: 880-51907-15

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.97 g	50 mL	97374	12/09/24 09:54	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97394	12/09/24 15:33	SMC	EET MID

## Client Sample ID: DS-18 (0-4')

Date Collected: 12/05/24 12:05

Date Received: 12/06/24 14:10

## Lab Sample ID: 880-51907-16

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	97374	12/09/24 09:54	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97394	12/09/24 15:38	SMC	EET MID

## Client Sample ID: DS-19 (0-4')

Date Collected: 12/05/24 12:10

Date Received: 12/06/24 14:10

## Lab Sample ID: 880-51907-17

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	97374	12/09/24 09:54	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97394	12/09/24 15:43	SMC	EET MID

## Client Sample ID: DS-20 (0-4')

Date Collected: 12/05/24 12:15

Date Received: 12/06/24 14:10

## Lab Sample ID: 880-51907-18

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	97374	12/09/24 09:54	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97394	12/09/24 15:48	SMC	EET MID

Eurofins Midland

Lab Chronicle

Client: Crain Environmental  
Project/Site: WEU 115

Job ID: 880-51907-1  
SDG: Lea Co, NM

Client Sample ID: DS-21 (0-4')  
Date Collected: 12/05/24 12:20  
Date Received: 12/06/24 14:10

Lab Sample ID: 880-51907-19  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.97 g	50 mL	97374	12/09/24 09:54	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97394	12/09/24 15:54	SMC	EET MID

Client Sample ID: DS-22 (0-6')  
Date Collected: 12/05/24 12:25  
Date Received: 12/06/24 14:10

Lab Sample ID: 880-51907-20  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	97374	12/09/24 09:54	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97394	12/09/24 15:59	SMC	EET MID

Client Sample ID: DS-23 (0-6')  
Date Collected: 12/05/24 12:30  
Date Received: 12/06/24 14:10

Lab Sample ID: 880-51907-21  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.97 g	50 mL	97376	12/09/24 10:13	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97397	12/09/24 18:34	CH	EET MID

Client Sample ID: DS-24 (0-6')  
Date Collected: 12/05/24 12:35  
Date Received: 12/06/24 14:10

Lab Sample ID: 880-51907-22  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	97376	12/09/24 10:13	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97397	12/09/24 18:55	CH	EET MID

Client Sample ID: DS-25 (0-3')  
Date Collected: 12/05/24 12:40  
Date Received: 12/06/24 14:10

Lab Sample ID: 880-51907-23  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	97376	12/09/24 10:13	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97397	12/09/24 19:02	CH	EET MID

Client Sample ID: DS-26 (0-3')  
Date Collected: 12/05/24 12:45  
Date Received: 12/06/24 14:10

Lab Sample ID: 880-51907-24  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.97 g	50 mL	97376	12/09/24 10:13	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97397	12/09/24 19:09	CH	EET MID

## Lab Chronicle

Client: Crain Environmental  
Project/Site: WEU 115

Job ID: 880-51907-1  
SDG: Lea Co, NM

**Client Sample ID: DS-27 (0-3')****Date Collected: 12/05/24 12:50****Date Received: 12/06/24 14:10****Lab Sample ID: 880-51907-25****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	97376	12/09/24 10:13	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97397	12/09/24 19:16	CH	EET MID

**Client Sample ID: DS-28 (0-3')****Date Collected: 12/05/24 12:55****Date Received: 12/06/24 14:10****Lab Sample ID: 880-51907-26****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	97376	12/09/24 10:13	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97397	12/09/24 19:36	CH	EET MID

**Client Sample ID: DS-29 (3')****Date Collected: 12/05/24 13:00****Date Received: 12/06/24 14:10****Lab Sample ID: 880-51907-27****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	97376	12/09/24 10:13	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97397	12/09/24 19:43	CH	EET MID

**Client Sample ID: DS-30 (3')****Date Collected: 12/05/24 13:05****Date Received: 12/06/24 14:10****Lab Sample ID: 880-51907-28****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	97376	12/09/24 10:13	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97397	12/09/24 19:50	CH	EET MID

**Client Sample ID: DS-31 (3')****Date Collected: 12/05/24 13:10****Date Received: 12/06/24 14:10****Lab Sample ID: 880-51907-29****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	97376	12/09/24 10:13	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97397	12/09/24 19:57	CH	EET MID

**Client Sample ID: DS-32 (3')****Date Collected: 12/05/24 13:15****Date Received: 12/06/24 14:10****Lab Sample ID: 880-51907-30****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.94 g	50 mL	97376	12/09/24 10:13	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97397	12/09/24 20:04	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Crain Environmental  
Project/Site: WEU 115

Job ID: 880-51907-1  
SDG: Lea Co, NM

Client Sample ID: DS-33 (3')  
Date Collected: 12/05/24 13:20  
Date Received: 12/06/24 14:10

Lab Sample ID: 880-51907-31  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.00 g	50 mL	97376	12/09/24 10:13	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97397	12/09/24 20:11	CH	EET MID

Client Sample ID: DS-34 (6')  
Date Collected: 12/05/24 13:25  
Date Received: 12/06/24 14:10

Lab Sample ID: 880-51907-32  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	97376	12/09/24 10:13	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97397	12/09/24 20:31	CH	EET MID

Client Sample ID: DS-35 (6')  
Date Collected: 12/05/24 13:30  
Date Received: 12/06/24 14:10

Lab Sample ID: 880-51907-33  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	97376	12/09/24 10:13	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97397	12/09/24 20:38	CH	EET MID

Client Sample ID: DS-36 (4.1')  
Date Collected: 12/05/24 13:35  
Date Received: 12/06/24 14:10

Lab Sample ID: 880-51907-34  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	97376	12/09/24 10:13	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97397	12/09/24 20:59	CH	EET MID

Client Sample ID: DS-37 (4.1')  
Date Collected: 12/05/24 13:40  
Date Received: 12/06/24 14:10

Lab Sample ID: 880-51907-35  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	97376	12/09/24 10:13	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97397	12/09/24 21:05	CH	EET MID

Client Sample ID: DS-38 (4.1')  
Date Collected: 12/05/24 13:45  
Date Received: 12/06/24 14:10

Lab Sample ID: 880-51907-36  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	97376	12/09/24 10:13	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97397	12/09/24 21:12	CH	EET MID

Lab Chronicle

Client: Crain Environmental  
Project/Site: WEU 115

Job ID: 880-51907-1  
SDG: Lea Co, NM

Client Sample ID: DS-39 (6')  
Date Collected: 12/05/24 13:50  
Date Received: 12/06/24 14:10

Lab Sample ID: 880-51907-37  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	97376	12/09/24 10:13	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97397	12/09/24 21:19	CH	EET MID

Client Sample ID: DS-40 (6')  
Date Collected: 12/05/24 13:55  
Date Received: 12/06/24 14:10

Lab Sample ID: 880-51907-38  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	97376	12/09/24 10:13	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97397	12/09/24 21:26	CH	EET MID

Client Sample ID: DS-41 (6')  
Date Collected: 12/05/24 14:00  
Date Received: 12/06/24 14:10

Lab Sample ID: 880-51907-39  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	97376	12/09/24 10:13	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	97397	12/09/24 21:33	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Crain Environmental  
Project/Site: WEU 115

Job ID: 880-51907-1  
SDG: Lea Co, NM

Laboratory: Eurofins Midland

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

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Method Summary

Client: Crain Environmental  
Project/Site: WEU 115

Job ID: 880-51907-1  
SDG: Lea Co, NM

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	EPA	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

- ASTM = ASTM International
- EPA = US Environmental Protection Agency

Laboratory References:

- EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

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## Sample Summary

Client: Crain Environmental  
Project/Site: WEU 115

Job ID: 880-51907-1  
SDG: Lea Co, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-51907-1	DS-3 (0-3')	Solid	12/05/24 10:50	12/06/24 14:10	0-3'
880-51907-2	DS-5 (0-3')	Solid	12/05/24 10:55	12/06/24 14:10	0-3'
880-51907-3	DS-4 (3')	Solid	12/05/24 11:00	12/06/24 14:10	3'
880-51907-4	DS-2 (0-3')	Solid	12/05/24 11:05	12/06/24 14:10	0-3'
880-51907-5	DS-1 (0-6')	Solid	12/05/24 11:10	12/06/24 14:10	0-4'
880-51907-6	DS-11 (0-6')	Solid	12/05/24 11:15	12/06/24 14:10	0-4'
880-51907-7	DS-8 (0-4')	Solid	12/05/24 11:20	12/06/24 14:10	0-4'
880-51907-8	DS-7 (6')	Solid	12/05/24 11:25	12/06/24 14:10	4.1'
880-51907-9	DS-9 (0-6')	Solid	12/05/24 11:30	12/06/24 14:10	0-4'
880-51907-10	DS-12 (0-3')	Solid	12/05/24 11:35	12/06/24 14:10	0-3'
880-51907-11	DS-13 (0-3')	Solid	12/05/24 11:40	12/06/24 14:10	0-3'
880-51907-12	DS-14 (0-3')	Solid	12/05/24 11:45	12/06/24 14:10	0-3'
880-51907-13	DS-15 (0-3')	Solid	12/05/24 11:50	12/06/24 14:10	0-3'
880-51907-14	DS-16 (0-3')	Solid	12/05/24 11:55	12/06/24 14:10	0-3'
880-51907-15	DS-17 (0-4')	Solid	12/05/24 12:00	12/06/24 14:10	0-4'
880-51907-16	DS-18 (0-4')	Solid	12/05/24 12:05	12/06/24 14:10	0-4'
880-51907-17	DS-19 (0-4')	Solid	12/05/24 12:10	12/06/24 14:10	0-4'
880-51907-18	DS-20 (0-4')	Solid	12/05/24 12:15	12/06/24 14:10	0-4'
880-51907-19	DS-21 (0-4')	Solid	12/05/24 12:20	12/06/24 14:10	0-4'
880-51907-20	DS-22 (0-4')	Solid	12/05/24 12:25	12/06/24 14:10	0-4'
880-51907-21	DS-23 (0-4')	Solid	12/05/24 12:30	12/06/24 14:10	0-4'
880-51907-22	DS-24 (0-4')	Solid	12/05/24 12:35	12/06/24 14:10	0-4'
880-51907-23	DS-25 (0-3')	Solid	12/05/24 12:40	12/06/24 14:10	0-3'
880-51907-24	DS-26 (0-3')	Solid	12/05/24 12:45	12/06/24 14:10	0-3'
880-51907-25	DS-27 (0-3')	Solid	12/05/24 12:50	12/06/24 14:10	0-3'
880-51907-26	DS-28 (0-3')	Solid	12/05/24 12:55	12/06/24 14:10	0-3'
880-51907-27	DS-29 (3')	Solid	12/05/24 13:00	12/06/24 14:10	3'
880-51907-28	DS-30 (3')	Solid	12/05/24 13:05	12/06/24 14:10	3'
880-51907-29	DS-31 (3')	Solid	12/05/24 13:10	12/06/24 14:10	3'
880-51907-30	DS-32 (3')	Solid	12/05/24 13:15	12/06/24 14:10	3'
880-51907-31	DS-33 (3')	Solid	12/05/24 13:20	12/06/24 14:10	3'
880-51907-32	DS-34 (6')	Solid	12/05/24 13:25	12/06/24 14:10	4.1'
880-51907-33	DS-35 (6')	Solid	12/05/24 13:30	12/06/24 14:10	4.1'
880-51907-34	DS-36 (4.1')	Solid	12/05/24 13:35	12/06/24 14:10	4.1'
880-51907-35	DS-37 (4.1')	Solid	12/05/24 13:40	12/06/24 14:10	4.1'
880-51907-36	DS-38 (4.1')	Solid	12/05/24 13:45	12/06/24 14:10	4.1'
880-51907-37	DS-39 (6')	Solid	12/05/24 13:50	12/06/24 14:10	4.1'
880-51907-38	DS-40 (6')	Solid	12/05/24 13:55	12/06/24 14:10	4.1'
880-51907-39	DS-41 (6')	Solid	12/05/24 14:00	12/06/24 14:10	4.1'



Environment Testing  
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### Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300  
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334  
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296  
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199



880-51907 Chain of Custody

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Project Manager:	Cindy Crain	Bill to: (if different)	Ryan Swift
Company Name:	Crain Environmental	Company Name:	Early Acres
Address:	2925 E. 17th St.	Address:	11757 Katy Frwy, Ste. 725
City, State ZIP:	Dallas, TX 75228	City, State ZIP:	Houston, TX 77079
Phone:	(575) 441-7244	Email:	cindy.crain@gmail.com

Work Order Comments	
Program:	UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>
State of Project:	NM
Reporting:	Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>
Deliverables:	EDD <input type="checkbox"/> ADaPT <input type="checkbox"/> Other: <input type="checkbox"/>

Project Name: WEU 115		Turn Around		ANALYSIS REQUEST																Preservative Codes					
Project Number: -		<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush		Pres. Code																		None: NO DI Water: H <sub>2</sub> O			
Project Location: Lga Co. NM		Due Date:		TAT starts the day received by the lab, if received by 4:30pm																		Cool: Cool MeOH: Me			
Sampler's Name: Cindy Crain																						HCL: HC HNO <sub>3</sub> : HN			
P.O. #:																						H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub> NaOH: Na			
SAMPLE RECEIPT		Temp Blank: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Wet Ice: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>																		H <sub>3</sub> PO <sub>4</sub> : HP			
Samples Received Intact: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Thermometer ID: TRS																				NaHSO <sub>4</sub> : NABIS			
Cooler Custody Seals: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		Correction Factor: -1																				Na <sub>2</sub> S <sub>2</sub> O <sub>5</sub> : NaSO <sub>3</sub>			
Sample Custody Seals: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		Temperature Reading: -2.3																				Zn Acetate+NaOH: Zn			
Total Containers:		Corrected Temperature: -2.4																				NaOH+Ascorbic Acid: SAPC			
Sample Identification		Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont																	Sample Comments	
DS-3 (0-3')		S	12/5/24	1050	0-3'	C	1																		
DS-5 (0-3')				1055	0-3'																				
DS-4 (3')				1100	3'																				
DS-2 (0-3')				1105	0-3'																				
DS-1 (0-4') cc				1110	0-4' cc																				
DS-11 (0-4') cc				1115	0-4' cc																				
DS-8 (0-4')				1120	0-4'																				
DS-7 (4-11) (6) cc				1125	4-11' cc																				
DS-9 (0-4') cc				1130	0-4' cc																				
DS-12 (0-3')				1135	0-3'																				

Total 200.7/6010	200.8/6020:	8RCRA 13PPM Texas 11	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO <sub>2</sub> Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed		TCLP/SPLP 6010 : 8RCRA	Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Cindy Crain		12/6/24 1415			
3					
5					

Revised Date: 08/25/2020 Rev. 2020.2





Environment Testing  
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### Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300  
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334  
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296  
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No:

907

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Page 2 of 4

Project Manager:	Cindy Crain	Bill to: (if different)	Ryan Swift
Company Name:	Crain Environmental	Company Name:	Forty Acres
Address:	2925 E. 17th St.	Address:	11757 Katy Frwy, Ste. 725
City, State ZIP:	Dallas, TX 75241	City, State ZIP:	Houston, TX 77079
Phone:	(575) 441-7244	Email:	Cindy.crain@gmail.com

Work Order Comments	
Program:	UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>
State of Project:	NM
Reporting:	Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>
Deliverables:	EDD <input type="checkbox"/> ADaPT <input type="checkbox"/> Other: <input type="checkbox"/>

Project Name: WELL 115		Turn Around		ANALYSIS REQUEST																Preservative Codes				
Project Number:	-	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush	Due Date:	Pres. Code																None: NO	DI Water: H <sub>2</sub> O			
Project Location:	Lea Co., NM	TAT starts the day received by the lab, if received by 4:30pm		Parameters Chlorides																	Cool: Cool	MeOH: Me		
Sampler's Name:	Cindy Crain																	HCL: HC	HNO <sub>3</sub> : HN					
P.O. #:	-																	H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub>	NaOH: Na					
SAMPLE RECEIPT		Temp Blank:	Yes No		Wet Ice:	Yes No																	H <sub>3</sub> PO <sub>4</sub> : HP	
Samples Received Intact:	Yes No	Thermometer ID:																	NaHSO <sub>4</sub> : NABIS					
Cooler Custody Seals:	Yes No N/A	Correction Factor:																	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>					
Sample Custody Seals:	Yes No N/A	Temperature Reading:																	Zn Acetate+NaOH: Zn					
Total Containers:		Corrected Temperature:																	NaOH+Ascorbic Acid: SAPC					
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont.																	Sample Comments	
DS-13 (0-3')	S	12/5/24	1140	0-3'	C	1	X																	
DS-14 (0-3')			1145	0-3'																				
DS-15 (0-3')			1150	0-3'																				
DS-16 (0-3')			1155	0-3'																				
DS-17 (0-4')			1200	0-4'																				
DS-18 (0-4')			1205	0-4'																				
DS-19 (0-4')			1210	0-4'																				
DS-20 (0-4')			1215	0-4'																				
DS-21 (0-4')			1220	0-4'																				
DS-22 (0-4')			1225	0-4'																				

Total 200.7 / 6010	200.8 / 6020:	8RCRA 13PPM Texas 11	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO <sub>2</sub> Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed		TCLP/SPLP 6010 : 8RCRA	Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Cindy Crain		12/6 1410	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2





Environment Testing  
Xenco

### Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300  
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334  
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296  
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: 907

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Project Manager:	<u>Cindy Crain</u>	Bill to: (if different)	<u>Ryan Swift</u>
Company Name:	<u>Crain Environmental</u>	Company Name:	<u>Forty Acres</u>
Address:	<u>2925 E. 17th St.</u>	Address:	<u>11757 Katy Frwy. Ste. 725</u>
City, State ZIP:	<u>Odessa, TX 79761</u>	City, State ZIP:	<u>Houston, TX 77079</u>
Phone:	<u>(575) 441-7244</u>	Email:	<u>Cindy.Crain@gmail.com</u>

Work Order Comments	
Program:	UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>
State of Project:	<u>NM</u>
Reporting:	Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>
Deliverables:	EDD <input type="checkbox"/> ADaPT <input type="checkbox"/> Other: <input type="checkbox"/>

Project Name:		Turn Around		ANALYSIS REQUEST																Preservative Codes					
Project Number:		<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush	Due Date:																		None: NO DI Water: H <sub>2</sub> O				
Project Location:		TAT starts the day received by the lab, if received by 4:30pm																		Cool: Cool MeOH: Me					
Sampler's Name:																				HCL: HC HNO: HN					
P.O. #:																				H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub> NaOH: Na					
SAMPLE RECEIPT		Temp Blank:	Yes No	Wet Ice:	Yes No																				
Samples Received Intact:		Yes No		Thermometer ID:																		H <sub>3</sub> PO <sub>4</sub> : HP			
Cooler Custody Seals:		Yes No N/A		Correction Factor:																		NaHSO <sub>4</sub> : NABIS			
Sample Custody Seals:		Yes No N/A		Temperature Reading:																		Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>			
Total Containers:				Corrected Temperature:																		Zn Acetate+NaOH: Zn			
																						NaOH+Ascorbic Acid: SAPC			
Sample Identification		Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont																	Sample Comments	
DS-23 (0-6")		S	12/5/24	1230	0-6"	C	1																		
DS-24 (0-6")				1235	0-6"																				
DS-25 (0-3')				1240	0-3'																				
DS-26 (0-3')				1245	0-3'																				
DS-27 (0-3')				1250	0-3'																				
DS-28 (0-3')				1255	0-3'																				
DS-29 (3')				1300	3'																				
DS-30 (3')				1305	3'																				
DS-31 (3')				1310	3'																				
DS-32 (3')				1315	3'																				

Total 200.7 / 6010	200.8 / 6020:	BRCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO <sub>2</sub> Na Sr Ti Sn U V Zn															
Circle Method(s) and Metal(s) to be analyzed		TCLP / SPLP 6010 : BRCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471															

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 <u>Cindy Crain</u>	<u>[Signature]</u>	12/6/1410	2		
3			4		
5			6		

Revised Date: 08/15/2019 Rev. 2020.2





Environment Testing  
Xenco

### Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300  
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334  
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296  
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 968-3199

Work Order No:

907

www.xenco.com

Page 4 of 4

Project Manager:	Cindy Crain	Bill to: (if different)	Ryan Swift
Company Name:	Crain Environmental	Company Name:	Forty Acres
Address:	2925 E. 17th St.	Address:	11757 Katy Fwy, Ste. 725
City, State ZIP:	Odessa, TX 79761	City, State ZIP:	Houston, TX 77079
Phone:	(575) 441-7244	Email:	Cindy.Crain@gmail.com

Work Order Comments	
Program:	UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>
State of Project:	NM
Reporting:	Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>
Deliverables:	EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other: <input type="checkbox"/>

Project Name:		Turn Around		ANALYSIS REQUEST																Preservative Codes					
Project Number:		<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush		Pres. Code																		None: NO DI Water: H <sub>2</sub> O			
Project Location:		Due Date:		Parameters																		Cool: Cool MeOH: Me			
Sampler's Name:		TAT starts the day received by the lab, if received by 4:30pm																				HCL: HC HNO <sub>3</sub> : HN			
P.O. #:																						H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub> NaOH: Na			
SAMPLE RECEIPT		Temp Blank:	Yes No	Wet Ice:	Yes No																	H <sub>3</sub> PO <sub>4</sub> : HP			
Samples Received Intact:		Yes No	Thermometer ID:																			NaHSO <sub>4</sub> : NABIS			
Cooler Custody Seals:		Yes No N/A	Correction Factor:																			Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>			
Sample Custody Seals:		Yes No N/A	Temperature Reading:																			Zn Acetate+NaOH: Zn			
Total Containers:				Corrected Temperature:																			NaOH+Ascorbic Acid: SAPC		
Sample Identification		Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont																	Sample Comments	
DS-33 (3')		S	12/5/24	1320	3'	C	1																		
DS-34 (4.1') (6)cc				1325	4.1'																				
DS-35 (4.1') (6)cc				1330	4.1'																				
DS-36 (4.1')				1335	4.1'																				
DS-37 (4.1')				1340	4.1'																				
DS-38 (4.1')				1345	4.1'																				
DS-39 (4.1') (6)cc				1350	4.1'																				
DS-40 (4.1') (6)cc				1355	4.1'																				
DS-41 (4.1') (6)cc				1400	4.1'																				

Total 200.7/6010	200.8/6020:	8RCRA 13PPM Texas 11	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO <sub>2</sub> Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed		TCLP/SPLP 6010 : 8RCRA	Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Cindy Crain		12/6/24			
3					
5					

Revised Date: 08/25/2020 Rev: 2020.2

## Login Sample Receipt Checklist

Client: Crain Environmental

Job Number: 880-51907-1

SDG Number: Lea Co, NM

Login Number: 51907

List Number: 1

Creator: Vasquez, Julisa

List Source: Eurofins Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



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## Appendix D: Photographic Documentation



APPENDIX D  
PHOTOGRAPHIC DOCUMENTATION  
WEST EUMONT UNIT #115



View of release point (5/26/23).



View of release point (5/26/23).

APPENDIX D  
PHOTOGRAPHIC DOCUMENTATION  
WEST EUMONT UNIT #115



View to SE of excavation (12/5/24).



View to E of excavation (12/5/24).



View to N of excavation (12/5/24).



View to SW of excavation (12/5/24).



View to S of excavation (12/5/24).



View to S of excavation (12/5/24).





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## Appendix E: Waste Manifests

J&amp;L Landfarm Inc

PO Box 356

Hobbs, NM 88241

575-369-9730 - David Jett

575-390-7446 - Michelle Kuhn

Permit# NM-01-0023

Date: 10-22-24

Generator: Forty Acres

Job #: J&amp;L # 3512

Trucking Co: JAR #105

Site Location: West End 115

Total Yards/Day: (2000) (2000) 60 yds

Landfarm Representative: David Jett

J&amp;L Landfarm Inc

PO Box 356

Hobbs, NM 88241

575-369-9730 - David Jett

575-390-7446 - Michelle Kuhn

Permit# NM-01-0023

Date: 10-23-24  
Generator: Forty Acres  
Job #: J&L# 3512  
Trucking Co: TAR #105  
Site Location: West Elmore #15  
Total Yards/Day: (20 ea) 1111 (2) 20 yds  
Landfarm Representative: David Jett

J&amp;L Landfarm Inc

PO Box 356

Hobbs, NM 88241

575-369-9730 – David Jett

575-390-7446 – Michelle Kuhn

Permit# NM-01-0023

Date: 10-24-24  
Generator: Forty Acres  
Job #: J&L # 3512  
Trucking Co: JAR # 105  
Site Location: West Eumart 115  
Total Yards/Day: (3000) 111 @ 80 yds  
Landfarm Representative: David Jett

J&amp;L Landfarm Inc

PO Box 356

Hobbs, NM 88241

575-369-9730 - David Jett

575-390-7446 - Michelle Kuhn

Permit# NM-01-0023

Date: 10-25-24  
Generator: Forty Acres  
Job #: J&L # 3512  
Trucking Co: JAR # 105  
Site Location: West Elephant 115  
Total Yards/Day: (2000) 11 (2) 40 yds  
Landfarm Representative: David Jett



J&amp;L Landfarm Inc

PO Box 356

Hobbs, NM 88241

575-369-9730 - David Jett

575-390-7446 - Michelle Kuhn

Permit# NM-01-0023

Date: 10-31-24  
Generator: Forty Acres  
Job #: J&L # 3521  
Trucking Co: Alameda H. JAR #105  
Site Location: West Eumoyt 115  
Total Yards/Day: (2000) (4) 20yds  
Landfarm Representative: David Jett

J&amp;L Landfarm Inc

PO Box 356

Hobbs, NM 88241

575-369-9730 - David Jett

575-390-7446 - Michelle Kuhn

Permit# NM-01-0023

Date: 11-1-24  
Generator: Forty Acres  
Job #: J&L # 3520  
Trucking Co: J&L # 105  
Site Location: West Tarrant 115  
Total Yards/Day: 20 yds  
Landfarm Representative: David Jett

J&L Landfarm Inc

PO Box 356

Hobbs, NM 88241

575-369-9730 – David Jett

575-390-7446 – Michelle Kuhn

Permit# NM-01-0023

Date: 11-16-24  
Generator: Forty Acres  
Job #: J&L # 3520  
Trucking Co: MATA # 46  
Site Location: Wright Furrant # 45  
Total Yards/Day: (2) 40 yds  
Landfarm Representative: David Jett

J&amp;L Landfarm Inc

PO Box 356

Hobbs, NM 88241

575-369-9730 – David Jett

575-390-7446 – Michelle Kuhn

Permit# NM-01-0023

Date: 11-16-74  
Generator: Forty Acres  
Job #: 50 LTH 3520  
Trucking Co: MATA 105  
Site Location: West Canyon 115  
Total Yards/Day: (2) 40 yds  
Landfarm Representative: David Jett

J&L Landfarm Inc

PO Box 356

Hobbs, NM 88241

575-369-9730 – David Jett

575-390-7446 – Michelle Kuhn

Permit# NM-01-0023

Date: 11-16-24  
Generator: Forty Acres  
Job #: J&L # 3520  
Trucking Co: Mats # 49  
Site Location: West Eumont #15  
Total Yards/Day: (2) 40 yds  
Landfarm Representative: David Jett

J&L Landfarm Inc

PO Box 356

Hobbs, NM 88241

575-369-9730 – David Jett

575-390-7446 – Michelle Kuhn

Permit# NM-01-0023

Date: 11-22-24  
Generator: Forty Acres  
Job #: J&L # 3521  
Trucking Co: MATA # 105  
Site Location: West Empart 115  
Total Yards/Day: 20 yds  
Landfarm Representative: David Jett

J&L Landfarm Inc

PO Box 356

Hobbs, NM 88241

575-369-9730 – David Jett

575-390-7446 – Michelle Kuhn

Permit# NM-01-0023

Date: 11-22-24  
Generator: Footy Acres  
Job #: J&L # 3521  
Trucking Co: MATA # 46  
Site Location: West Element 115  
Total Yards/Day: 20 ydgs  
Landfarm Representative: David Jett



J&L Landfarm Inc

PO Box 356

Hobbs, NM 88241

575-369-9730 – David Jett

575-390-7446 – Michelle Kuhn

Permit# NM-01-0023

Date: 11-22-24  
Generator: Forty Acres  
Job #: J&L # 3521  
Trucking Co: Nata # 49  
Site Location: West Egan # 115  
Total Yards/Day: 20 yds  
Landfarm Representative: David Jett

J&L Landfarm Inc

PO Box 356

Hobbs, NM 88241

575-369-9730 – David Jett

575-390-7446 – Michelle Kuhn

Permit# NM-01-0023

Date: 12-4-24  
Generator: Forty Acres  
Job #: J&L # 3521  
Trucking Co: M. Mata # 46  
Site Location: West Emmert 115  
Total Yards/Day: (20ea) 1111 (4) 80yds  
Landfarm Representative: David Jett

J&L Landfarm Inc  
PO Box 356  
Hobbs, NM 88241  
575-369-9730 - David Jett  
575-390-7446 - Michelle Kuhn  
Permit# NM-01-0023

Date: 12-4-24  
Generator: Forty Acres  
Job #: J+L 332  
Trucking Co: (JAR) M MATA 105  
Site Location: West Furman 115  
Total Yards/Day: (20 ea) 111 (4) 80 yds  
Landfarm Representative: David Jett



J&amp;L Landfarm Inc

PO Box 356

Hobbs, NM 88241

575-369-9730 – David Jett

575-390-7446 – Michelle Kuhn

Permit# NM-01-0023

Date: 12-24  
Generator: Forty Acres  
Job #: JL 3521  
Trucking Co: Dea M. Nats (JPA 105) #11  
Site Location: West Eummet 115  
Total Yards/Day: (20ea) 111 (4) 80 yds  
Landfarm Representative: David Jett

J&L Landfarm Inc

PO Box 356

Hobbs, NM 88241

575-369-9730 – David Jett

575-390-7446 – Michelle Kuhn

Permit# NM-01-0023

Date: 12-5-24

Generator: Forty Acres

Job #: JL C# 3521

Trucking Co: MATA # 46

Site Location: West Eumont 115

Total Yards/Day: (2000) 17 (1) 20 yds

Landfarm Representative: David Jett



J&amp;L Landfarm Inc

PO Box 356

Hobbs, NM 88241

575-369-9730 – David Jett

575-390-7446 – Michelle Kuhn

Permit# NM-01-0023

Date: 12-16-24

Generator: Forty Acres

Job #: J&amp;L # 3521

Trucking Co: M. MATA (JAR 105)

Site Location: West Eunomut 115

Total Yards/Day: (20 ea) 1 20 yds

Landfarm Representative: David Jett

J&L Landfarm Inc

PO Box 356

Hobbs, NM 88241

575-369-9730 – David Jett

575-390-7446 – Michelle Kuhn

Permit# NM-01-0023

Date: 12-6-24

Generator: Forty Acres

Job #: J&L # 3521

Trucking Co: M. Mata # 46

Site Location: West Summit 115

Total Yards/Day: (20ea) 20yds

Landfarm Representative: David Jett



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

General Information  
Phone: (505) 629-6116

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

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

QUESTIONS

Action 422774

**QUESTIONS**

Operator: FORTY ACRES ENERGY, LLC 11757 KATY FWY HOUSTON, TX 77079173	OGRID: 371416
	Action Number: 422774
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2316654395
Incident Name	NAPP2316654395 WEST EUMONT UNIT #115 @ 30-025-44204
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-025-44204] WEST EUMONT UNIT #115C

**Location of Release Source**

Please answer all the questions in this group.

Site Name	WEST EUMONT UNIT #115
Date Release Discovered	05/26/2023
Surface Owner	State

**Incident Details**

Please answer all the questions in this group.

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

**Nature and Volume of Release**

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.

Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Other   Other (Specify)   Produced Water   Released: 15 BBL   Recovered: 15 BBL   Lost: 0 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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

QUESTIONS, Page 2

Action 422774

**QUESTIONS (continued)**

Operator: FORTY ACRES ENERGY, LLC 11757 KATY FWY HOUSTON, TX 77079173	OGRID: 371416
	Action Number: 422774
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
Is this a gas only submission (i.e. only significant Mcf values reported)	<b>No, according to supplied volumes this does not appear to be a "gas only" report.</b>
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	<b>No</b>
Reasons why this would be considered a submission for a notification of a major release	<i>Unavailable.</i>
<i>With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.</i>	

**Initial Response**

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

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

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

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

I hereby agree and sign off to the above statement	Name: Cindy Crain Email: <a href="mailto:cindy.crain@gmail.com">cindy.crain@gmail.com</a> Date: 07/14/2024
--	--

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

General Information  
Phone: (505) 629-6116

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

QUESTIONS, Page 3

Action 422774

**QUESTIONS (continued)**

Operator: FORTY ACRES ENERGY, LLC 11757 KATY FWY HOUSTON, TX 77079173	OGRID:
	371416
	Action Number:
	422774
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

**QUESTIONS**

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

<b>Remediation Plan</b>	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
<b>Soil Contamination Sampling:</b> (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	12700
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	0
GRO+DRO (EPA SW-846 Method 8015M)	0
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
On what estimated date will the remediation commence	09/16/2024
On what date will (or did) the final sampling or liner inspection occur	10/14/2024
On what date will (or was) the remediation complete(d)	11/18/2024
What is the estimated surface area (in square feet) that will be reclaimed	3000
What is the estimated volume (in cubic yards) that will be reclaimed	556
What is the estimated surface area (in square feet) that will be remediated	3000
What is the estimated volume (in cubic yards) that will be remediated	556
<i>These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.</i>	
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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

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

QUESTIONS, Page 4

Action 422774

**QUESTIONS (continued)**

Operator: FORTY ACRES ENERGY, LLC 11757 KATY FWY HOUSTON, TX 77079173	OGRID: 371416
	Action Number: 422774
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Remediation Plan (continued)</b>	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
<b>This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:</b>	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	MONUMENT SITE #15 (TNM-94-58) [fAB0000000056]
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	No
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	No
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Cindy Crain Email: cindy.crain@gmail.com Date: 07/14/2024
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 422774

QUESTIONS (continued)

Operator: FORTY ACRES ENERGY, LLC 11757 KATY FWY HOUSTON, TX 77079173	OGRID: 371416
	Action Number: 422774
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QUESTIONS

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

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QUESTIONS, Page 6

Action 422774

**QUESTIONS (continued)**

Operator: FORTY ACRES ENERGY, LLC 11757 KATY FWY HOUSTON, TX 77079173	OGRID: 371416
	Action Number: 422774
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

Sampling Event Information	
Last sampling notification (C-141N) recorded	408053
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	12/05/2024
What was the (estimated) number of samples that were to be gathered	15
What was the sampling surface area in square feet	3000

Remediation Closure Request	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	3000
What was the total volume (cubic yards) remediated	780
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	3000
What was the total volume (in cubic yards) reclaimed	780
Summarize any additional remediation activities not included by answers (above)	Upon NMOCD approval of this Closure request, the excavation will be backfilled to grade with non-impacted similar material obtained from a landowner pit. The surface area will be graded to near original conditions and contoured to prevent erosion and ponding, promote stability, and preserve storm water flow patterns.
<i>The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.	
I hereby agree and sign off to the above statement	Name: Cindy Crain Email: cindy.crain@gmail.com Date: 01/21/2025



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Action 422774

QUESTIONS (continued)

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QUESTIONS

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

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CONDITIONS

Action 422774

CONDITIONS

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	Action Number: 422774
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
nvez	None	5/1/2025