

Remediation Summary and Closure Report

November 18, 2024

West Eumont Unit #407 Battery Produced Water Release Incident No. nAPP2316652967 Lea County, New Mexico

Prepared For:

Forty Acres Energy, LLC 11757 Katy Freeway, Suite 725 Houston, Texas 77079

Prepared By:

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1.0 Introduction

Crain Environmental (CE), on behalf of Forty Acres Energy, LLC (FAE), has prepared this *Site Remediation Summary and Closure Report* for the produced water release at West Eumont Unit 407 Battery (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 32.516528, -103.340494. 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 June 14, 2023, a release from a storage tank located at the West Eumont Unit 407 Battery was discovered. As a result of corrosion of the valve, approximately 25 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 tank was repaired. The released fluid covered a surface area of approximately 2,100 square feet. Approximately 25 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 #nAPP2316652967 was assigned. An Initial Form C-141 (Release Notification Report) was submitted on October 23, 2023. Appendix A provides a copy of the C-141.

A Site Characterization Report and Remediation Workplan was submitted to the NMOCD on July 16, 2024, and was approved on July 23, 2024, with a Closure Report due by October 22, 2024. On October 14, 2024, FAE requested a 30-day extension on the Closure Report date. On October 15, 2024, the NMOCD approved an extension until November 21, 2024. This Remediation Summary and Closure Report is being submitted in accordance with 19.15.29 New Mexico Administrative Code (NMAC). Appendix B provides a copy of 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 were no water wells located within 0.5 mile of the Site drilled within the last 25 years; however, FAE provided documentation that well (CP 1975 POD 1) was installed on August 24, 2023, to a depth of 160' below ground surface (bgs) and is located within 0.5 mile of the Site. Groundwater was not encountered in the well, and the well is listed in the table below. Figure 3 provides a 0.5-mile radius circle around the Site and shows the location of well CP-1975 POD 1. The well log is provided in Appendix C. Based on the available water well data, it is estimated that depth to groundwater at the Site is greater than 100 feet bgs.

Nearby Water Wells

Well ID	Location from Release Site	Year Installed	Use	Total Depth / Depth to Water (feet bgs)
CP 1975 POD 1	Approx. 929 feet to North	2023	N/A	160 / DRY

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 <u>not</u> 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

At depths greater than 4' bgs, the Closure Criteria applicable to the Site will be based on the estimated depth to groundwater, which dictates the least stringent Closure Criteria typically associated with groundwater depths of greater than 100 feet bgs. From the surface to a depth of 4' bgs, the most stringent Closure Criteria will apply. A summary of the Closure Criteria is provided in the table below and in Table 1.

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

NMOCD Closure Criteria

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.

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; however, a water well was drilled to the north (CP-1075) of the Site in 2023 to a depth of 160' bgs, and groundwater was not encountered. Depth to groundwater is estimated be greater than 100' bgs at the Site.

4.3 Wellhead Protection Area

The 0.5-mile wellhead protection area is shown on Figure 3. One water well was drilled within 0.5 mile of the Site in 2023, but the well was dry. 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 23, 2024, excavation was continued until confirmation samples collected from the bottom and sidewalls of the excavation on August 27 and October 15, 2024, reported total petroleum hydrocarbons (TPH) and chloride concentrations below the NMOCD Closure Criteria.

All confirmation samples were collected pursuant to 19.15.29(D) NMAC, and were placed in clean glass sample jars, properly labeled, immediately placed on ice and hand delivered under proper chain-ofcustody control to Eurofins Environment Testing (Eurofins) in Midland, Texas. All samples were analyzed for TPH by Environmental Protection Agency (EPA) SW-846 Method 8015 Modified, and for chlorides by EPA Method 300. As approved in the *Site Characterization Report and Remediation Workplan*, analyses were not conducted for Benzene and 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 D. Photographic documentation is provided in Appendix E.

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

All affected soil has been excavated, and 356 cubic yards (cy) of soil were hauled to J&L Landfarm for disposal between July 24 and October 21, 2024. Waste Manifests are provided in Appendix F.

4.6 Laboratory Analytical Data Quality Assurance/Quality Control Results

Data reported in Job Numbers 880-47910-1 and 880-4989901, 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 results are usable for characterization of soil at the Site. The laboratory analytical results are provided as Appendix D.

5.0 Request for Closure

A total of 356 cubic yards of soil was excavated and hauled to disposal at J&L Landfarm between July 24 and October 21, 2024. All confirmation samples collected from the bottom and sidewalls of the excavation reported TPH, Benzene, BTEX, and chloride concentrations below the NMOCD Closure Criteria.

Upon NMOCD approval of this Closure Report, the excavation will be backfilled to grade with nonimpacted similar material obtained from a landowner pit. Pursuant to 19.15.29.13 NMAC, the impacted surface areas 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 # nAPP2316652967.

6.0 Distribution

- Copy 1: Mike Bratcher New Mexico Energy, Minerals, and Natural Resources Department Oil Conservation Division, District 2 811 S. First Street Artesia, New Mexico 88210
- Copy 2: Ryan Swift Forty Acres Energy, LLC 11757 Katy Freeway, Suite 725 Houston, Texas 77079



TABLE

TABLE 1 SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS FORTY ACRES ENERGY, LLC WEST EUMONT UNIT 407 BATTERY NMOCD INCIDENT # nAPP2316652967

Sample ID	Sample Date	Sample Depth	Soil Status	TPH (GRO)	TPH (DRO)	TPH (MRO)	Total TPH	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	Chloride
	Duto							milligram	s per kilogran	n (mg/kg)			
NMOCI	D Closure C	riteria					100	10	-	-	-	50	600
NMOCD Clo	osure Criteri	a (>4' bgs)		GRO + DF	RO = 1,000	-	2,500	10	-	-	-	50	20,000
									I				
DS-01 0.5'	01/24/24	0.5'	Excavated	<10.0	<10.0	<10.0	<10.0	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	48.0
DS-01 5' DS-01 5.5'	01/24/24 08/27/24	5'	Excavated In Situ	<10.0 <49.6	2,930 <49.6	1,100 <49.6	4,030 <49.6	<0.050	< 0.050	<0.050	<0.150	<0.300	144 1,680
DS-02 0.5'													•
DS-02 0.5 DS-02 5'	01/24/24 01/24/24	0.5' 5'	Excavated Excavated	<10.0 <10.0	237 <10.0	208 <10.0	445 <10.0	<0.050 <0.050	<0.050 <0.050	<0.050 <0.050	<0.150 <0.150	<0.300 <0.300	80.0 480
DS-02 (0-4')	08/27/24	0-4'	In Situ	<49.8	87.0	<49.8	87.0						279
DS-03 0.5'	01/24/24	0.5'	Excavated	<10.0	90.4	82.3	172.7	<0.050	< 0.050	<0.050	<0.150	<0.300	32.0
DS-03 5'	01/24/24	5'	Excavated	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	672
DS-03 (0-4')	08/27/24	0-4'	In Situ	<49.6	<49.6	<49.6	<49.6						82.0
DS-04 0.5'	01/24/24	0.5'	Excavated	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
DS-04 2.5'	01/29/24	2.5'	Excavated	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	128
DS-04 (0-4')	08/27/24	0-4'	In Situ	<50.0	<50.0	<50.0	<50.0						12.3
DS-05 0.5'	01/24/24	0.5'	In Situ	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
DS-05 2.5'	01/24/24	2.5'	In Situ	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
DS-06 0.5' DS-06 4'	02/06/24 02/06/24	0.5'	In Situ In Situ	<10.0 <10.0	<10.0 <10.0	<10.0 <10.0	<10.0 <10.0	<0.050 <0.050	<0.050 <0.050	<0.050 <0.050	<0.150 <0.150	<0.300 <0.300	32.0 16.0
		•	i 1						1				
DS- 07 0.5' DS-07 2.5'	01/29/24 01/29/24	0.5' 2.5'	In Situ In Situ	<10.0 <10.0	<10.0 <10.0	<10.0 <10.0	<10.0 <10.0	<0.050 <0.050	<0.050 <0.050	<0.050 <0.050	<0.150 <0.150	<0.300 <0.300	16.0 16.0
DS-07 5'	01/29/24	2.5	In Situ In Situ	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
DS-08 0.5'	02/06/24	0.5'	In Situ	<10.0	<10.0	<10.0	<10.0	< 0.050	<0.050	<0.050	<0.150	< 0.300	32.0
DS-08 4'	02/06/24	4'	In Situ In Situ	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
DS-09 0.5'	01/29/24	0.5'	Excavated	<10.0	48.2	29.1	77.3	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	96.0
DS-09 2.5'	01/29/24	2.5'	Excavated	<10.0	40.2	29.1 964	2,764	<0.050	<0.050	<0.050	<0.150	< 0.300	288
DS-09 4'	01/29/24	4'	Excavated	<10.0	1,210	729	1,939	<0.050	<0.050	<0.050	<0.150	<0.300	400
DS-09 (0- 4')	08/27/24	0-4'	In Situ	<49.7	<49.7	<49.7	<49.7						88.9
DS-10 0.5'	01/29/24	0.5'	Excavated	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
DS-10 2.5'	01/29/24	2.5'	Excavated	<10.0	<10.0	<10.0	<10.0	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	336
DS-10 3.5' DS-10 (0-4')	01/31/24 08/27/24	3.5' 0-4'	Excavated In Situ	<10.0 <49.8	<10.0 <49.8	<10.0 <49.8	<10.0 <49.8	<0.050	<0.050	<0.050	<0.150	<0.300	1,060 546
DS-11 0.5'	01/30/24	0.5'	In Situ	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
DS-11 2'	01/30/24	2'	In Situ In Situ	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
DS-11 4'	01/30/24	4'	In Situ	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
DS-12 3.5'	01/31/24	3.5'	Excavated	<10.0	117	<10.0	117	<0.050	< 0.050	<0.050	<0.150	<0.300	1,710
DS-12 4'	02/01/24	4'	Excavated	<10.0	112	15.6	127.6	<0.050	<0.050	<0.050	<0.150	<0.300	2,720
DS-12 (4.5')	08/27/24	4.5'	In Situ	<49.8	1,250	<49.8	1,250						1,120
DS-12 5'	02/01/24	5'	In Situ	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,810
DS-13 1.5' DS-13 2.5'	02/01/24	1.5' 2.5'	Excavated	11.0	2,710	1,190	3,911	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
DS-13 2.5 DS-13 (3.5')	02/01/24 08/27/24	3.5'	Excavated Excavated	<10.0 <49.6	1,880 3,600	555 <49.6	2,435 3,600	<0.050	<0.050	<0.050	<0.150	<0.300	80.0 1,840 F1
DS-13 (4.3')	10/15/24	4.3'	In Situ	<49.7	59.5	<49.7	59.5						874
DS-13 5'	02/06/24	5'	In Situ	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	192
DS-14 2.5'	02/01/24	2.5'	Excavated	<10.0	2,070	404	2,474	<0.050	< 0.050	<0.050	<0.150	<0.300	32.0
DS-14 (3.5')	08/27/24	3.5'	Excavated	<50.5	1,980	<50.5	1,980						120
DS-14 (4.3') DS-14 5'	10/15/24 02/06/24	4.3' 5'	In Situ In Situ	<49.8 <10.0	110 <10.0	<49.8 <10.0	110 <10.0	<0.050	<0.050	<0.050	 <0.150	<0.300	473 F1 656
DS-14 3													
	02/01/24	0.5'	In Situ	<10.0	53.8	10.7	64.5	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
DS-15 (0-4')	08/27/24	0-4'	In Situ	<50.5	<50.5	<50.5	<50.5						53.9
DS-16 (0-3')	08/27/24	0-3'	In Situ	<50.4	<50.4	<50.4	<50.4						84.8
DS-17 (5.5')	08/27/24	5.5'	In Situ	<50.0	430 F1	<50.0	430						3,300

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.

Bold and yellow highlighting indicates the COC was above the appropriate NMOCD Closure Criteria.
 Green highlighting and italic font indicates soil was excavated and disposed.

10. F1: MS and/or MSD recovery exceeds control limits.

11. --: Sample was not analyzed for the specified constituent.



FIGURES









LEGEND:	Figure 4		
Site Location	National Wetlands Inventory Map	Drafted by: CC Checked by: CC	
		Draft: July 15, 2024	
	Forty Acres Energy, LLC	GPS: 32.516528° -103.340494°	
	West Eumont Unit 407 Battery		
Base Map From US Fish & Wildlife Service	Lea County, New Mexico		







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

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	NAPP2316652967
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) NAPP2316652967
Contact mailing address 11757 Katy FWY Suite 725,	Houston, TX 77079

Location of Release Source

Latitude 32.516528

Longitude -103.340494 (NAD 83 in decimal degrees to 5 decimal places)

Site Name West Eumont Unit Lea	07 Battery Site Type Battery	
Date Release Discovered 6/14/2023	API# (if applicable)	

Unit Letter	Section	Township	Range	County
С	02	21 S	35E	Lea

Surface Owner: 🗌 State 🗌 Federal 🔲 Tribal 🔀 Private (Name: _____

Nature and Volume of Release

Dale Cooper

Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
X Produced Water	Volume Released (bbls) 25 bbls	Volume Recovered (bbls) 25 bbls
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

A hole was found in the bottom of a still oil tank.

Received b	by O	CD:	11/	18/2	024	4:592	27 PM	1
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Form C-141	State of New Mexico	Incident ID	NAPP2316652967
Page 2	Oil Conservation Division	District RP	
		Facility ID	
		Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible party consider this a major release? The release was over 25 bbls of water, which was contained within the battery containment.
🕅 Yes 🗌 No	Forty Acres has removed the water and soil from location.
	ptice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? put a one call into Mike Bratsher on 6/14/2023.

Initial Response

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

X The source of the release has been stopped.

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

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

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

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

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

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

Printed Name:Alex Bojanos	Title:Regulatory & Production Analyst	
Signature: alie Bli	Date: 6/15/2023	
email:alex@faenergyus.com	Telephone: 832-689-3788	
OCD Only		
Received by: <u>Shelly Wells</u>	Date: <u>10/23/2023</u>	

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

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

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

District IV

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

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

CONDITIONS

Operator:	OGRID:
FORTY ACRES ENERGY, LLC	371416
11757 KATY FWY	Action Number:
HOUSTON, TX 77079173	278261
	Action Type:
	[C-141] Release Corrective Action (C-141)
CONDITIONS	

CONDITIONS

Created By Condition None scwells

CONDITIONS

Action 278261

Condition Date 10/23/2023

Incident IDnAPP2316652967District RPFacility IDApplication 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>>100</u> (ft bgs)
Did this release impact groundwater or surface water?	🗌 Yes 🗶 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🗶 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🗶 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🔀 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🗶 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	Yes X No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🔀 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🗶 No
Are the lateral extents of the release overlying a subsurface mine?	Yes X No
Are the lateral extents of the release overlying an unstable area such as karst geology?	Yes X No
Are the lateral extents of the release within a 100-year floodplain?	Yes X No
Did the release impact areas not on an exploration, development, production, or storage site?	🗴 Yes 🗌 No

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

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

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- X Field data
- \mathbf{X} Data table of soil contaminant concentration data
- \underline{X} Depth to water determination
- X Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- X Boring or excavation logs
- $\overline{\mathbf{X}}$ Photographs including date and GIS information
- X Topographic/Aerial maps
- \mathbf{X} 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.

Page 3

Received by OCD: 11/18/2024	24 4:59:27 PM State of New Mexico			Page 22 of 104
			Incident ID	nAPP2316652967
Page 4	Oil Conservation Division	n	District RP	
			Facility ID	
			Application ID	
regulations all operators are req public health or the environmer failed to adequately investigate		otifications and perform co e OCD does not relieve the hreat to groundwater, surfa	prrective actions for rele e operator of liability sho ce water, human health liance with any other feo ty Acres Energy, LLC	ases which may endanger ould their operations have or the environment. In deral, state, or local laws
OCD Only				
Received by:		Date:		

Received by OCD: 11/18/2024 4:59:27 PM Form C-141 State of New Mexico

<u>Remediation Plan Checklist</u>: Each of the following items must be included in the plan.

Incident ID	nAPP2316652967
District RP	
Facility ID	
Application ID	

Remediation Plan

X Detailed description of proposed remediation technique X Scaled sitemap with GPS coordinates showing delineation points \mathbf{X} Estimated volume of material to be remediated X Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC X 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 Crain Title: Agent for Forty Acres Energy, LLC _____ Date: <u>7/16/24</u> Signature: email: cindy.crain@gmail.com Telephone: (575) 441-7244 **OCD Only** Received by: Date: Approved Approved with Attached Conditions of Approval Denied Deferral Approved Signature: Date:

Page 5

Page 6

Oil Conservation Division

Incident ID	nAPP2316652967
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.

<u>Closure Report Attachment Checklist</u>: Each of the following items must be included in the closure report.

 \overline{X} A scaled site and sampling diagram as described in 19.15.29.11 NMAC

X Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

X Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

 \mathbf{X} Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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: <u>Cindy Crain</u>	Title: Agent for Forty Acres Energy, LLC
Signature: (sain	Date: <u>11/18/24</u>
email: <u>cindy.crain@gmail.com</u>	Telephone: (575) 441-7244
OCD Only	
Received by:	Date:
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible for regulations.
Closure Approved by:	Date:
Printed Name:	Title:

•





Appendix B: NMOCD Correspondence



Cindy Crain <cindy.crain@gmail.com>

The Oil Conservation Division (OCD) has approved the application, Application ID: 364538

1 message

OCDOnline@state.nm.us <OCDOnline@state.nm.us> To: cindy.crain@gmail.com Tue, Jul 23, 2024 at 4:25 PM

To whom it may concern (c/o Cindy Crain for FORTY ACRES ENERGY, LLC),

The OCD has approved the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2316652967, with the following conditions:

• Remediation plan is approved as written. FAE has 90-days (October 22, 2024) to submit to OCD its appropriate or final remediation closure report.

The signed C-141 can be found in the OCD Online: Imaging under the incident ID (n#).

If you have any questions regarding this application, please contact me.

Thank you, Nelson Velez Environmental Specialist - Advanced 505-469-6146 Nelson.Velez@emnrd.nm.gov

New Mexico Energy, Minerals and Natural Resources Department

1220 South St. Francis Drive Santa Fe, NM 87505

Oct 14, 2024, 10:35 AM

Forty Acres Energy_C-141 Extension Requests



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 (832) 689-3788



Velez, Nelson, EMNRD to Alex, Ryan, me

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,

Oct 15, 2024, 4:18 PM

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



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Appendix C: Well Records and Logs



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

N	OSE POD NO. (WELL NO.) POD-1				WELL TAG ID NO. OSE FIL 213A19 CP-197			TLE NO(S). 975			
I. GENERAL AND WELL LOCATION	WELL OWNER NAME(S) Clay Tom Cooper WELL OWNER MAILING ADDRESS Box 6						PHONE (OPTIONAL)				
							CITY STATE Monument NM 88265			ZIP	
	WELL LOCATION (FROM GPS)	-	TITUDE	GREES 32 103	MINUTES 31 20	09.6 N 24.7 W	a service service	REQUIRED: ONE TEN	TH OF A SECOND		
	DESCRIPTION I	_	NGITUDE	<u> </u>	RESS AND COMMON L/				ERE AVAILABLE		
	LICENSE NO. 1839	-	NAME OF LICENSED	DRILLER	Boyd Coffey			NAME OF WELL DR	ILLING COMPANY Coffey Drilling		
	DRILLING STAR 8-24-202		DRILLING ENDED 8-24-2023	DEPTH OF CO	DMPLETED WELL (FT) 160	BORE HO	HOLE DEPTH (FT) DEPTH WATER FIRST ENCOUNTERED 160 NA				
NOIT	COMPLETED W	ELL IS:	ARTESIAN	V DRY HO	LE SHALLOW (UNCONFINED)	STATIC WATER LEVEL IN COMPLETED V			LL (FT)	
	DRILLING FLUI	D:	AIR	MUD	ADDITIVES	- SPECIFY:					
RMA	DRILLING METHOD: 🔽 ROTARY		HAMME	R CABLE TOO	L OTH	ER - SPECIFY:					
& CASING INFORMATION	DEPTH (feet bgl) BORE HOLE FROM TO DIAM (inches)		(include each casing string, and T		ASING NECTION TYPE	CASING INSIDE DIAM.	CASING WALL THICKNESS (inches)	SLOT SIZE (inches			
CAS	0	20	10	note	note sections of screen) (add coupling dia		bell	(inches) 5	sdr 21	(menea)	
G&	20	100	8.75	-	PVC		bell	5	sdr 21		
LIN	100	120	8.75		PVC		bell	5	sdr 21	0.020	
2. DRILLING	120	160	8.75		PVC		bell	5	sdr 21		
-	DEPTH (feet bgl) BORE HOLE LIST ANNULA			IST ANNULAR SEAI	MATERIAL	AND	AMOUNT	METHO	DOF		
RIAL	FROM	то	DIAM. (inches)	GRAVEL PACK SIZE-RANGE BY INTERVAL		ERVAL	1.200		PLACEMENT		
TER	0	20	10	-	3/8 Bentonite hole plug			8	Pou	Pour	
3. ANNULAR MATE	20	160	8.75		3/8 pca g	gravel		38	Pou	r	
FOR	OSE INTERNA	L USE			POD NO.		WR-2		& LOG (Version 04/3	0/19)	
LOC	ATION						WELL TAG I		PAGE	1 OF 2	

	DEPTH (f	eet bgl)		COLOR AND TYPE OF MATERIAL ENCOUNTERED -		ESTIMATED
	FROM	то	THICKNESS (feet)	INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	YIELD FOR WATER- BEARING ZONES (gpm)
	0	6	6	Tan Top soil	Y √N	
	6	48	42	White Caliche	Y √N	
	48	96	48	Tan Soft SandStone	Y √N	
	96	100	4	Red Clay	Y √N	
	100	105	5	Course sand and gravel	Y √N	
F					Y N	
WEI			· · · · · · · · · · · · · · · · · · ·		Y N	
40	í 1.		1		Y N	
4. HYDROGEOLOGIC LOG OF WELL			9		Y N	
					Y N	
LOC					Y N	
GEO					Y N	
RO					Y N	
4. HYD					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
		_			Y N	
	METHOD U		TOTAL ESTIMATED WELL YIELD (gpm):	0.00		
RVISION	WELL TEST	STAI	TRESULTS - ATT. RT TIME, END TIM	L ACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCL IE, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER	UDING DISCHARGE I THE TESTING PERIC	METHOD,)D.
5. TEST; RIG SUPE	PRINT NAM	E(S) OF I	DRILL RIG SUPER	VISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONST	RUCTION OTHER TH	IAN LICENSEE
6. SIGNATURE	RECORD OF	THE AB	OVE DESCRIBED L ALSO BE FILED	AT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FORE WELL I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLE R / PRINT SIGNEE NAME	BEEN INSTALLED AN	ND THAT THIS
	R OSE INTERN E NO.	NAL USE		POD NO. TRN NO.	RECORD & LOG (Ve	rsion 04/30/2019)
	CATION			WELL TAG ID NO		PAGE 2 OF 2



.



Appendix D: Laboratory Reports and Chain-of-Custody Documentation

Received by OCD: 11/18/2024 4:59:27 PM



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Cindy Crain Crain Environmental 2925 E. 17th St. Odessa, Texas 79761 Generated 9/5/2024 12:21:55 PM

JOB DESCRIPTION

Lea 407 Lea Co., NM

JOB NUMBER

880-47910-1

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

AMER

Generated 9/5/2024 12:21:55 PM

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

Eurofins Midland is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

9/5/2024

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	31

Client: Crain Environmental Project/Site: Lea 407 Page 36 of 104

Job ID: 880-47910-1	

SDG: Lea Co., NM

Qualifiers		3
GC Semi VOA	ч.	
Qualifier	Qualifier Description	
*+	LCS and/or LCSD is outside acceptance limits, high biased.	
F1	MS and/or MSD recovery exceeds control limits.	5
S1-	Surrogate recovery exceeds control limits, low biased.	
S1+	Surrogate recovery exceeds control limits, high biased.	
U	Indicates the analyte was analyzed for but not detected.	
HPLC/IC		
Qualifier	Qualifier Description	
F1	MS and/or MSD recovery exceeds control limits.	8
U	Indicates the analyte was analyzed for but not detected.	U
Glossary		9
Abbreviation	These commonly used abbreviations may or may not be present in this report.	10
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	IV
%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)	

Released to Imaging: 3/4/2025 1:55:48 PM

Negative / Absent

Positive / Present Practical Quantitation Limit

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin) Toxicity Equivalent Quotient (Dioxin)

Too Numerous To Count

Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

Presumptive Quality Control

NEG

POS

PQL PRES

QC RER

RL RPD

TEF

TEQ TNTC
Case Narrative

Job ID: 880-47910-1

Job ID: 880-47910-1

exceptions, if applicable.

specified in the method.

unless attributed to a dilution or otherwise noted in the narrative.

Eurofins Midland

Job Narrative 880-47910-1

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 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 Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt The samples were received on 8/29/2024 3:10 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 4.5°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: DS-1 (5.5') (880-47910-1), DS-2 (0-4') (880-47910-2), DS-3 (0-4') (880-47910-3), DS-4 (0-4') (880-47910-4), DS-9 (0-4') (880-47910-5), DS-10 (0-4') (880-47910-6), DS-12 (4.5') (880-47910-7), DS-13 (3.5') (880-47910-8), DS-14 (3.5') (880-47910-9), DS-15 (0-4') (880-47910-10), DS-16 (0-3') (880-47910-11), DS-17 (5.5') (880-47910-12) and DS-18 (5') (880-47910-13).

Diesel Range Organics

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-89728 and analytical batch 880-89778 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-89728/2-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-89728 and analytical batch 880-89778 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-89959 and analytical batch 880-89933 was outside the control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: DS-12 (4.5') (880-47910-7), DS-13 (3.5') (880-47910-8), DS-14 (3.5') (880-47910-9), DS-15 (0-4') (880-47910-10) and (CCV 880-89933/24). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-89729 and analytical batch 880-90076 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.

HPLC/IC

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-89746 and analytical batch 880-89823 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 300_ORGFM_28D - Soluble: The Chloride matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-89745 and analytical batch 880-89797 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)

Case Narrative

Client: Crain Environmental Project: Lea 407

Job ID: 880-47910-1

Eurofins Midland

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recovery is within acceptance limits.

Job ID: 880-47910-1 (Continued)

The associated samples are: DS-1 (5.5') (880-47910-1), DS-2 (0-4') (880-47910-2), DS-3 (0-4') (880-47910-3), DS-4 (0-4') (880-47910-4), DS-9 (0-4') (880-47910-5), DS-10 (0-4') (880-47910-6), DS-12 (4.5') (880-47910-7), (880-47909-A-46-A), (880-47909-A-46-B MS) and (880-47909-A-46-C MSD).

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

Client Sample Results

Job ID: 880-47910-1 SDG: Lea Co., NM

Lab Sample ID: 880-47910-1

08/30/24 15:35

08/30/24 15:35

Lab Sample ID: 880-47910-2

Matrix: Solid

Client Sample ID: DS-1 (5.5')

Client: Crain Environmental

Project/Site: Lea 407

Date Collected: 08/27/24 12:20								Matri	ix: Solid	
Date Received: 08/29/24 15:10										
Sample Depth: 5.5'										
Method: SW846 8015 NM - Die	sel Range Organ	ics (DRO) (G	C)							5
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<49.6	U	49.6		mg/Kg			08/30/24 15:35	1	
Method: SW846 8015B NM - Di	esel Range Orga	anics (DRO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics	<49.6	U	49.6		mg/Kg		08/29/24 17:06	08/30/24 15:35	1	6

08/29/24 17:06

08/29/24 17:06

Analyte	Result	Qualifier	RL	MDL	Unit	
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg	
Diesel Range Organics (Over C10-C28)	<49.6	U *+	49.6		mg/Kg	
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg	
Surrogate	%Recovery	Qualifier	l imits			

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130	08/29/24 17:06	08/30/24 15:35	1
o-Terphenyl	93		70 - 130	08/29/24 17:06	08/30/24 15:35	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1680	24.8	mg/Kg			09/03/24 17:16	5

Client Sample ID: DS-2 (0-4')

Date Collected: 08/27/24 12:25 Date Received: 08/29/24 15:10 Sample Depth: 0-4'

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier MDL RL Unit D Prepared Analyzed Dil Fac 49.8 08/30/24 15:52 **Total TPH** 87.0 mg/Kg 1 Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) Analyte **Result Qualifier** RL MDL Unit D Prepared Analyzed Dil Fac <49.8 U 49.8 08/29/24 17:06 08/30/24 15:52 Gasoline Range Organics mg/Kg (GRO)-C6-C10 **Diesel Range Organics (Over** 87.0 *+ 49.8 mg/Kg 08/29/24 17:06 08/30/24 15:52 C10-C28) Oil Range Organics (Over C28-C36) 08/29/24 17:06 08/30/24 15:52 <49.8 U 49.8 mg/Kg 1 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1-Chlorooctane 106 70 - 130 08/29/24 17:06 08/30/24 15:52 1 08/29/24 17:06 93 70 - 130 08/30/24 15:52 o-Terphenyl 1 Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Result Qualifier Analyte RL MDL Unit D Prepared Analyzed Dil Fac 5.05 09/03/24 17:25 Chloride 279 mg/Kg 1 Client Sample ID: DS-3 (0-4') Lab Sample ID: 880-47910-3 Date Collected: 08/27/24 12:30 Matrix: Solid Date Received: 08/29/24 15:10 Sample Depth: 0-4'

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			08/30/24 16:09	1

Client Sample Results

Job ID: 880-47910-1 SDG: Lea Co., NM

Lab Sample ID: 880-47910-4

Matrix: Solid

Client Sample ID: DS-3 (0-4')

Date Collected: 08/27/24 12:30

Client: Crain Environmental

Project/Site: Lea 407

Date Received: 08/29/24 15:10 Sample Depth: 0-4'

Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		08/29/24 17:06	08/30/24 16:09	1
Diesel Range Organics (Over C10-C28)	<49.6	U *+	49.6		mg/Kg		08/29/24 17:06	08/30/24 16:09	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		08/29/24 17:06	08/30/24 16:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130				08/29/24 17:06	08/30/24 16:09	1
o-Terphenyl	88		70 - 130				08/29/24 17:06	08/30/24 16:09	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	82.0	4.98	mg/Kg			09/03/24 17:33	1

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

Date Collected: 08/27/24 12:35 Date Received: 08/29/24 15:10

Sample Depth: 0-4'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/30/24 16:25	1
- Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/29/24 17:06	08/30/24 16:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U *+	50.0		mg/Kg		08/29/24 17:06	08/30/24 16:25	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/29/24 17:06	08/30/24 16:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130				08/29/24 17:06	08/30/24 16:25	1
o-Terphenyl	84		70 - 130				08/29/24 17:06	08/30/24 16:25	1
_ Method: EPA 300.0 - Anions, Ion	Chromatograg	ohy - Solubl	e						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
_Chloride	12.3		4.72		mg/Kg			09/03/24 17:41	1
-			4.72		mg/Kg		Lab Sam	09/03/24 17:41 ple ID: 880-4	
Client Sample ID: DS-9 (0-4')			4.72		mg/Kg		Lab Sam	ple ID: 880-4	
Client Sample ID: DS-9 (0-4') Date Collected: 08/27/24 12:40			4.72		mg/Kg		Lab Sam	ple ID: 880-4	7910-5
Client Sample ID: DS-9 (0-4') Date Collected: 08/27/24 12:40 Date Received: 08/29/24 15:10			4.72		mg/Kg		Lab Sam	ple ID: 880-4	7910-5
Client Sample ID: DS-9 (0-4') Date Collected: 08/27/24 12:40 Date Received: 08/29/24 15:10		ics (DRO) (mg/Kg		Lab Sam	ple ID: 880-4	7910-5
Client Sample ID: DS-9 (0-4') Date Collected: 08/27/24 12:40 Date Received: 08/29/24 15:10 Sample Depth: 0-4'	I Range Organ	<mark>ics (DRO) (</mark> Qualifier		MDL		D	Lab Sam	ple ID: 880-4	7910-5
Client Sample ID: DS-9 (0-4') Date Collected: 08/27/24 12:40 Date Received: 08/29/24 15:10 Sample Depth: 0-4' Method: SW846 8015 NM - Diese	I Range Organ	Qualifier	GC)	MDL		<u>D</u>		ple ID: 880-4 Matri	7910-5 x: Solid
Client Sample ID: DS-9 (0-4') Date Collected: 08/27/24 12:40 Date Received: 08/29/24 15:10 Sample Depth: 0-4' Method: SW846 8015 NM - Diese Analyte	I Range Organ Result <49.7	Qualifier U	GC) 	MDL	Unit	<u>D</u>		ple ID: 880-4 Matri Analyzed	7910-5 x: Solid Dil Fac

Dil Fac

Dil Fac

Dil Fac

Matrix: Solid

1

1

1

1

Client Sample Results

RL

49.7

49.7

RL

5.02

Limits

70 - 130

70 - 130

MDL Unit

MDL Unit

mg/Kg

mg/Kg

mg/Kg

D

D

Prepared

08/29/24 17:06

08/29/24 17:06

Prepared

08/29/24 17:06

08/29/24 17:06

Prepared

Job ID: 880-47910-1 SDG: Lea Co., NM

Analyzed

08/30/24 16:42

08/30/24 16:42

Analyzed

08/30/24 16:42

08/30/24 16:42

Analyzed

09/03/24 17:49

Lab Sample ID: 880-47910-6

Lab Sample ID: 880-47910-7

Client Sample ID: DS-9 (0-4')

Date Collected: 08/27/24 12:40 Date Received: 08/29/24 15:10

Sample Depth: 0-4'

Diesel Range Organics (Over

Oil Range Organics (Over C28-C36)

Analyte

C10-C28)

Surrogate

o-Terphenyl

Analyte

Chloride

1-Chlorooctane

Client: Crain Environmental Project/Site: Lea 407

Lab Sample ID: 880-47910-5 Matrix: Solid

Client Sample ID: DS-10 (0-4') Date Collected: 08/27/24 12:45

Date Received: 08/29/24 15:10

Sample Depth: 0-4'

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									2	
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<49.8	U	49.8		mg/Kg			08/30/24 16:59	1	

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Result Qualifier

<49.7 U *+

<49.7 U

%Recovery Qualifier

93

82

88.9

Result Qualifier

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8		mg/Kg		08/29/24 17:06	08/30/24 16:59	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.8	U *+	49.8		mg/Kg		08/29/24 17:06	08/30/24 16:59	1
C10-C28)									
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/29/24 17:06	08/30/24 16:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130				08/29/24 17:06	08/30/24 16:59	1
o-Terphenyl	81		70 _ 130				08/29/24 17:06	08/30/24 16:59	1

Method: EPA 300.0 - Anions, Ion C	hromatograp	hy - Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	546		4.99		mg/Kg			09/03/24 17:57	1

Client Sample ID: DS-12 (4.5')

Date Collected: 08/27/24 12:50	
Date Received: 08/29/24 15:10	
Openals Doubles 4 El	

Sample Depth: 4.5'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1250		49.8		mg/Kg			09/03/24 15:27	1
Method: SW846 8015B NM - Dies Analyte		Qualifier	SC) RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
		Qualifier		MDL	Unit mg/Kg	<u>D</u>	Prepared 09/03/24 12:21	Analyzed 09/03/24 15:27	Dil Fac

Eurofins Midland

Job ID: 880-47910-1 SDG: Lea Co., NM

Matrix: Solid

Dil Fac

Dil Fac

1

1

1

5

Client Sample ID: DS-12 (4.5')

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Result Qualifier

<49.8 U

%Recovery Qualifier

74

1120

63 S1-

Result Qualifier

Date Collected: 08/27/24 12:50 Date Received: 08/29/24 15:10

Oil Range Organics (Over C28-C36)

Client Sample ID: DS-13 (3.5') Date Collected: 08/27/24 12:55

Client: Crain Environmental

Project/Site: Lea 407

Sample Depth: 4.5'

Analyte

Surrogate 1-Chlorooctane

o-Terphenyl

Analyte

Chloride

Lab Sample ID: 880-47910-7

Prepared

09/03/24 12:21

Prepared

09/03/24 12:21

09/03/24 12:21

Prepared

5

Lab Sample	ID:	880-47910-8
		Materia Callal

Lab Sample ID: 880-47910-9

Analyzed

09/03/24 15:27

Analyzed

09/03/24 15:27

09/03/24 15:27

Analyzed

09/03/24 18:05

Matrix: Solid

Dil Fac

Date Received: 08/29/24 15:10 Sample Depth: 3.5'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	3600		49.6		mg/Kg			09/03/24 15:41	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		09/03/24 12:21	09/03/24 15:41	1
Diesel Range Organics (Over C10-C28)	3600		49.6		mg/Kg		09/03/24 12:21	09/03/24 15:41	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		09/03/24 12:21	09/03/24 15:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	66	S1-	70 - 130				09/03/24 12:21	09/03/24 15:41	1
o-Terphenyl	74		70 - 130				09/03/24 12:21	09/03/24 15:41	1

Client Sample Results

RL

49.8

RL

24.8

Limits

70 - 130

70 - 130

MDL Unit

MDL Unit

mg/Kg

mg/Kg

D

D

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1840	F1	25.2		mg/Kg			09/03/24 20:30	5

Client Sample ID: DS-14 (3.5')

Date Collected: 08/27/24 13:00 Date Received: 08/29/24 15:10

Sample Depth: 3.5'

Method: SW846 8015 NM - Diesel F	Range Organ	ics (DRO) (GO	C)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1980		50.5		mg/Kg			09/03/24 15:57	1
Method: SW846 8015B NM - Diesel	Range Orga	nics (DRO) (0	GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.5	U	50.5		mg/Kg		09/03/24 12:21	09/03/24 15:57	1
(GRO)-C6-C10									
Diesel Range Organics (Over	1980		50.5		mg/Kg		09/03/24 12:21	09/03/24 15:57	1
C10-C28)									
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		09/03/24 12:21	09/03/24 15:57	1

Eurofins Midland

Client: Crain Environmental

3 4 5

Client Sample	e Results
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Job ID: 880-47910-1 SDG: Lea Co., NM

Client: Crain Environmental Project/Site: Lea 407								Job ID: 880- SDG: Lea	
Client Sample ID: DS-14 (3.5') Date Collected: 08/27/24 13:00							Lab Sam	ple ID: 880-4 Matri	7910-9 ix: Solid
Date Received: 08/29/24 15:10									
Sample Depth: 3.5'									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	64	S1-	70 - 130				09/03/24 12:21	09/03/24 15:57	1
o-Terphenyl	73		70 - 130				09/03/24 12:21	09/03/24 15:57	1
Method: EPA 300.0 - Anions, Ion C	hromatograp	ohy - Solub	le						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	120		5.02		mg/Kg			09/03/24 20:57	1
Client Sample ID: DS-15 (0-4')							Lab Samp	le ID: 880-47	910-10
Date Collected: 08/27/24 13:05								Matri	ix: Solid
Date Received: 08/29/24 15:10									
Sample Depth: 0-4'									
Method: SW846 8015 NM - Diesel F	Range Organ	ics (DRO) ((GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			09/03/24 16:11	1
_ Method: SW846 8015B NM - Diesel	Range Orga	nics (DRO) (GC)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.5	U	50.5		mg/Kg		09/03/24 12:21	09/03/24 16:11	1
(GRO)-C6-C10 Diesel Range Organics (Over	<50.5	U	50.5		mg/Kg		09/03/24 12:21	09/03/24 16:11	1
C10-C28) Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		09/03/24 12:21	09/03/24 16:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane		S1-	70 - 130				09/03/24 12:21	09/03/24 16:11	1
o-Terphenyl	72	•	70 - 130				09/03/24 12:21	09/03/24 16:11	1
- Mathada EDA 200 0 Aniana Jan O		hu Osluk							
Method: EPA 300.0 - Anions, Ion C Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	53.9	quantor	5.05		mg/Kg			09/03/24 21:06	1
- Client Semple ID: DS 16 (0.2')							Lab Sama	le ID: 880-47	010 11
Client Sample ID: DS-16 (0-3') Date Collected: 08/27/24 13:10							Lab Samp		ix: Solid
Date Received: 08/29/24 15:10								Watri	x. 5011u
Sample Depth: 0-3'									
_									
Method: SW846 8015 NM - Diesel F				MDI	Unit	D	Bronorod	Analyzad	
Analyte Total TPH	<pre></pre>	Qualifier	RL	MDL	Unit mg/Kg	D	Prepared	Analyzed 09/03/24 16:26	Dil Fac
_		0	00.1		ing/itg			00/00/21 10:20	
Method: SW846 8015B NM - Diesel						_			
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		09/03/24 12:21	09/03/24 16:26	1
Diesel Range Organics (Over	<50.4	U	50.4		mg/Kg		09/03/24 12:21	09/03/24 16:26	1
C10-C28) Oil Range Organics (Over C28-C36)	<50.4		50.4		mg/Kg		09/03/24 12:21	09/03/24 16:26	1
Cir Manye Organica (Over 020-030)	<⊃U.4	0	50.4		my/Ny		UUUUU24 12:21	03/03/24 10:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	71		70 - 130				09/03/24 12:21	09/03/24 16:26	1
o-Terphenyl	80		70 - 130				09/03/24 12:21	09/03/24 16:26	1

Client: Crain Environmental		Client	Sample R	esuits				Job ID: 880-4	47910- [,]
Project/Site: Lea 407								SDG: Lea	
Client Sample ID: DS-16 (0-3	')						Lab Samp	le ID: 880-47	910-1 ⁻
Date Collected: 08/27/24 13:10								Matri	x: Soli
Date Received: 08/29/24 15:10									
Sample Depth: 0-3'									
-									
Method: EPA 300.0 - Anions, Ion						_			
Analyte		Qualifier		MDL		D	Prepared	Analyzed	Dil Fa
Chloride	84.8		4.98		mg/Kg			09/03/24 21:14	
Client Sample ID: DS-17 (5.5	")						Lab Samp	le ID: 880-47	910-1
Date Collected: 08/27/24 13:15	,								x: Soli
Date Received: 08/29/24 15:10									
Sample Depth: 5.5'									
-									
Method: SW846 8015 NM - Diesel Analyte		Qualifier	~) RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	Kesuit 430				mg/Kg		riepaieu	09/04/24 16:08	
	430		50.0		mg/rtg			09/04/24 10:00	
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO) (O	SC)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		08/29/24 17:09	09/04/24 16:08	
(GRO)-C6-C10									
Diesel Range Organics (Over	430	F1	50.0		mg/Kg		08/29/24 17:09	09/04/24 16:08	
C10-C28)	.50.0		50.0		117		00/00/04 47 00	00/04/04 40 00	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/29/24 17:09	09/04/24 16:08	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane			70 - 130				08/29/24 17:09	09/04/24 16:08	
o-Terphenyl	87		70 - 130				08/29/24 17:09	09/04/24 16:08	
	0								
Method: EPA 300.0 - Anions, Ion			ы	MDI	11		Duomonod	Amalyzad	Dil Fa
Analyta		Qualifier	RL	MDL		D	Prepared	Analyzed	
Analyte			10.6		malka			00/03/24 21.23	1
Analyte Chloride			49.6		mg/Kg			09/03/24 21:23	1
Chloride			49.6		mg/Kg		Lab Samp	09/03/24 21:23	
			49.6		mg/Kg		Lab Samp	le ID: 880-47	910-1
Chloride Client Sample ID: DS-18 (5')			49.6		mg/Kg		Lab Samp	le ID: 880-47	910-1
Chloride Client Sample ID: DS-18 (5') Date Collected: 08/27/24 13:20			49.6		mg/Kg		Lab Samp	le ID: 880-47	910-1
Chloride Client Sample ID: DS-18 (5') Date Collected: 08/27/24 13:20 Date Received: 08/29/24 15:10 Sample Depth: 5'	3300	ics (DRO) (G0			mg/Kg		Lab Samp	le ID: 880-47	910-1
Chloride Client Sample ID: DS-18 (5') Date Collected: 08/27/24 13:20 Date Received: 08/29/24 15:10 Sample Depth: 5' Method: SW846 8015 NM - Diese	3300	ics (DRO) (GC Qualifier	2)	MDL	mg/Kg		Lab Samp	le ID: 880-47 Matri	-
Chloride Client Sample ID: DS-18 (5') Date Collected: 08/27/24 13:20 Date Received: 08/29/24 15:10 Sample Depth: 5'	3300			MDL		<u>D</u>		le ID: 880-47	910-1 x: Soli
Chloride Client Sample ID: DS-18 (5') Date Collected: 08/27/24 13:20 Date Received: 08/29/24 15:10 Sample Depth: 5' Method: SW846 8015 NM - Diesel Analyte	3300 I Range Organ Result		C) <u>RL</u>	MDL	Unit			le ID: 880-47 Matri Analyzed	910-1 x: Soli
Chloride Client Sample ID: DS-18 (5') Date Collected: 08/27/24 13:20 Date Received: 08/29/24 15:10 Sample Depth: 5' Method: SW846 8015 NM - Diesel Analyte	3300 I Range Organ Result 110	Qualifier	C) <u>RL</u> 49.8	MDL	Unit	D		le ID: 880-47 Matri Analyzed	910-1 x: Soli
Chloride Client Sample ID: DS-18 (5') Date Collected: 08/27/24 13:20 Date Received: 08/29/24 15:10 Sample Depth: 5' Method: SW846 8015 NM - Diesel Analyte Total TPH	I Range Organ Result 110 sel Range Orga	Qualifier	C) <u>RL</u> 49.8	MDL	Unit mg/Kg	D		le ID: 880-47 Matri Analyzed	910-1 x: Soli Dil Fa
Chloride Client Sample ID: DS-18 (5') Date Collected: 08/27/24 13:20 Date Received: 08/29/24 15:10 Sample Depth: 5' Method: SW846 8015 NM - Diesel Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics	I Range Organ Result 110 sel Range Orga	Qualifier nics (DRO) (C Qualifier	C) <u>RL</u> 49.8 GC)		Unit mg/Kg		Prepared	le ID: 880-47 Matri Analyzed 09/04/24 16:55	910-1 x: Soli Dil Fa
Chloride Client Sample ID: DS-18 (5') Date Collected: 08/27/24 13:20 Date Received: 08/29/24 15:10 Sample Depth: 5' Method: SW846 8015 NM - Diesel Analyte Total TPH Method: SW846 8015B NM - Diesel Analyte Gasoline Range Organics (GRO)-C6-C10	I Range Organ Result 110 sel Range Orga Result <49.8	Qualifier nics (DRO) (C Qualifier	C) <u>RL</u> <u>49.8</u> <u>6C)</u> <u>RL</u> <u>49.8</u>		Unit mg/Kg Unit mg/Kg		Prepared Prepared 08/29/24 17:09	le ID: 880-47 Matri 09/04/24 16:55 Analyzed 09/04/24 16:55	910-1 x: Soli Dil Fa
Chloride Client Sample ID: DS-18 (5') Date Collected: 08/27/24 13:20 Date Received: 08/29/24 15:10 Sample Depth: 5' Method: SW846 8015 NM - Diesel Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	I Range Organ Result 110 sel Range Orga Result	Qualifier nics (DRO) (C Qualifier	C) RL 49.8 GC) RL		Unit mg/Kg Unit		Prepared	le ID: 880-47 Matri Analyzed 09/04/24 16:55 Analyzed	910-1 x: Soli Dil Fa
Chloride Client Sample ID: DS-18 (5') Date Collected: 08/27/24 13:20 Date Received: 08/29/24 15:10 Sample Depth: 5' Method: SW846 8015 NM - Diesel Analyte Total TPH Method: SW846 8015B NM - Diesel Analyte Gasoline Range Organics (GRO)-C6-C10	I Range Organ Result 110 sel Range Orga Result <49.8	Qualifier	C) <u>RL</u> <u>49.8</u> <u>6C)</u> <u>RL</u> <u>49.8</u>		Unit mg/Kg Unit mg/Kg		Prepared Prepared 08/29/24 17:09	le ID: 880-47 Matri 09/04/24 16:55 Analyzed 09/04/24 16:55	910-1 x: Soli Dil Fa
Chloride Client Sample ID: DS-18 (5') Date Collected: 08/27/24 13:20 Date Received: 08/29/24 15:10 Sample Depth: 5' Method: SW846 8015 NM - Diesel Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	I Range Organ Result 110 sel Range Orga Result <49.8 110 <49.8	Qualifier nics (DRO) (C Qualifier U	C) RL 49.8 GC) RL 49.8 49.8 49.8		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared Prepared 08/29/24 17:09 08/29/24 17:09 08/29/24 17:09	le ID: 880-47 Matri 09/04/24 16:55 <u>Analyzed</u> 09/04/24 16:55 09/04/24 16:55 09/04/24 16:55	910-1 x: Soli Dil Fa
Chloride Client Sample ID: DS-18 (5') Date Collected: 08/27/24 13:20 Date Received: 08/29/24 15:10 Sample Depth: 5' Method: SW846 8015 NM - Diesel Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate	I Range Organ Result 110 sel Range Orga Result <49.8 110 <49.8 %Recovery	Qualifier nics (DRO) (C Qualifier U	C) RL 49.8 GC) RL 49.8 49.8 49.8 49.8 Limits		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared Prepared 08/29/24 17:09 08/29/24 17:09 08/29/24 17:09 Prepared	le ID: 880-47 Matri 09/04/24 16:55 <u>Analyzed</u> 09/04/24 16:55 09/04/24 16:55 09/04/24 16:55 <u>Analyzed</u>	910-1 x: Soli Dil Fa
Chloride Client Sample ID: DS-18 (5') Date Collected: 08/27/24 13:20 Date Received: 08/29/24 15:10 Sample Depth: 5' Method: SW846 8015 NM - Diesel Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	3300 I Range Organ Result 110 sel Range Orga Result <49.8	Qualifier nics (DRO) (C Qualifier U	C) RL 49.8 SC) RL 49.8 49.8 49.8 49.8 49.8 50.130		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared Prepared 08/29/24 17:09 08/29/24 17:09 08/29/24 17:09 Prepared 08/29/24 17:09	le ID: 880-47 Matri 09/04/24 16:55 Analyzed 09/04/24 16:55 09/04/24 16:55 09/04/24 16:55 Analyzed 09/04/24 16:55	910-1 x: Soli Dil Fa
Chloride Client Sample ID: DS-18 (5') Date Collected: 08/27/24 13:20 Date Received: 08/29/24 15:10 Sample Depth: 5' Method: SW846 8015 NM - Diesel Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate	I Range Organ Result 110 sel Range Orga Result <49.8 110 <49.8 %Recovery	Qualifier nics (DRO) (C Qualifier U	C) RL 49.8 GC) RL 49.8 49.8 49.8 49.8 Limits		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared Prepared 08/29/24 17:09 08/29/24 17:09 08/29/24 17:09 Prepared	le ID: 880-47 Matri 09/04/24 16:55 <u>Analyzed</u> 09/04/24 16:55 09/04/24 16:55 09/04/24 16:55 <u>Analyzed</u>	910-1 x: Soli Dil Fa
Chloride Client Sample ID: DS-18 (5') Date Collected: 08/27/24 13:20 Date Received: 08/29/24 15:10 Sample Depth: 5' Method: SW846 8015 NM - Diesel Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	3300 I Range Organ Result 110 sel Range Orga Result <49.8	Qualifier	C) RL 49.8 SC) RL 49.8 49.8 49.8 49.8 49.8 50.130		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared Prepared 08/29/24 17:09 08/29/24 17:09 08/29/24 17:09 Prepared 08/29/24 17:09	le ID: 880-47 Matri 09/04/24 16:55 Analyzed 09/04/24 16:55 09/04/24 16:55 09/04/24 16:55 Analyzed 09/04/24 16:55	910-1 x: Soli Dil Fa
Chloride Client Sample ID: DS-18 (5') Date Collected: 08/27/24 13:20 Date Received: 08/29/24 15:10 Sample Depth: 5' Method: SW846 8015 NM - Diesel Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	I Range Organ Result 110 sel Range Orga (49.8 110 <49.8 110 <49.8 %Recovery 104 93 Chromatograp	Qualifier	C) RL 49.8 SC) RL 49.8 49.8 49.8 49.8 49.8 50.130		Unit mg/Kg Unit mg/Kg mg/Kg mg/Kg		Prepared Prepared 08/29/24 17:09 08/29/24 17:09 08/29/24 17:09 Prepared 08/29/24 17:09	le ID: 880-47 Matri 09/04/24 16:55 Analyzed 09/04/24 16:55 09/04/24 16:55 09/04/24 16:55 Analyzed 09/04/24 16:55	910-1 x: Soli Dil Fa Dil Fa

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Released to Imaging: *3/4/2025***1:55:48P***M*

Client: Crain Environmental Project/Site: Lea 407

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

				Perce
		1CO1	OTPH1	I.
Lab Sample ID	Client Sample ID	(70-130)	(70-130))
880-47910-1	DS-1 (5.5')	102	93	
880-47910-2	DS-2 (0-4')	106	93	
880-47910-3	DS-3 (0-4')	100	88	
880-47910-4	DS-4 (0-4')	98	84	
880-47910-5	DS-9 (0-4')	93	82	
880-47910-6	DS-10 (0-4')	93	81	
880-47910-7	DS-12 (4.5')	63 S1-	74	
880-47910-8	DS-13 (3.5')	66 S1-	74	
880-47910-9	DS-14 (3.5')	64 S1-	73	
880-47910-10	DS-15 (0-4')	68 S1-	72	
880-47910-11	DS-16 (0-3')	71	80	
880-47910-12	DS-17 (5.5')	95	87	
880-47910-12 MS	DS-17 (5.5')	98	97	
880-47910-12 MSD	DS-17 (5.5')	101	97	
880-47910-13	DS-18 (5')	104	93	
LCS 880-89728/2-A	Lab Control Sample	132 S1+	127	
LCS 880-89729/2-A	Lab Control Sample	107	110	
LCS 880-89959/2-A	Lab Control Sample	93	105	
LCSD 880-89728/3-A	Lab Control Sample Dup	100	124	
LCSD 880-89729/3-A	Lab Control Sample Dup	106	110	
LCSD 880-89959/3-A	Lab Control Sample Dup	95	102	
MB 880-89728/1-A	Method Blank	145 S1+	134 S1+	+
MB 880-89729/1-A	Method Blank	84	80	
MB 880-89959/1-A	Method Blank	66 S1-	74	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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Job ID: 880-47910-1	
SDG: Lea Co., NM	

Prep Type: Total/NA

5 6 7

QC Sample Results

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-89728/1-4	4										Client Sa	mple ID:	Method	Blank
Matrix: Solid												Prep 1	Type: To	tal/NA
Analysis Batch: 89778													Batch:	
-		ΜВ	МВ											
Analyte	Re	sult	Qualifier	RL		MDL	Unit		D	Pi	repared	Analyz	ed	Dil Fac
Gasoline Range Organics	<	50.0	U	50.0			mg/Kg			08/29	9/24 17:06	08/30/24	10:23	1
(GRO)-C6-C10														
Diesel Range Organics (Over	<	50.0	U	50.0			mg/Kg			08/29	9/24 17:06	08/30/24	10:23	1
C10-C28) Oil Range Organics (Over C28-C36)	_	50.0		50.0			malka			00/20	9/24 17:06	08/30/24	10.00	1
Dir Range Organics (Over C26-C36)		50.0	0	50.0			mg/Kg			00/23	9/24 17.00	00/30/24	10.25	I
		MВ	MB											
Surrogate	%Reco	very	Qualifier	Limits						PI	repared	Analyz	zed	Dil Fac
-Chlorooctane		145	S1+	70 - 130					_	08/2	9/24 17:06	08/30/24	10:23	1
p-Terphenyl		134	S1+	70 - 130						08/2	9/24 17:06	08/30/24	10:23	1
									~		0			
Lab Sample ID: LCS 880-89728/2-	A								CI	ient	Sample	D: Lab C		
Matrix: Solid													Type: To	
Analysis Batch: 89778				0									Batch:	89728
A washeda				Spike		LCS		11		_	0/ D	%Rec		
Analyte				Added	Result	Qua	lifier	Unit		D	%Rec	Limits		
Gasoline Range Organics GRO)-C6-C10				1000	1143			mg/Kg			114	70 - 130		
Diesel Range Organics (Over				1000	1278			mg/Kg			128	70 - 130		
C10-C28)														
	LCS	LCS												
Surrogate	%Recovery	Qual	lifier	Limits										
I-Chlorooctane	132	S1+		70 - 130										
p-Terphenyl	127			70 - 130										
Lab Sample ID: LCSD 880-89728/	2 ^							CI	ont (Sam		ah Contro	Sampl	
Matrix: Solid	J-A								ent	Sam		ab Contro	Гуре: То	-
													Batch:	
Analysis Batch: 89778				Spike	LCSD	1.09	п					%Rec	Datch.	RPD
Analyte				Added	Result			Unit		D	%Rec	Limits	RPD	Limit
				1000	1122	Qua				_	112	70 - 130	2	20
Gasoline Range Organics GRO)-C6-C10				1000	1122			mg/Kg			112	10 - 130	2	20
Diesel Range Organics (Over				1000	1312	*+		mg/Kg			131	70 - 130	3	20
C10-C28)								0 0					-	
	1000	1.00	~											
N	LCSD			Limite										
Gurrogate	%Recovery 100	Qual	mer	Limits 70 - 130										
o-Terphenyl	124			70 - 130										
Lab Sample ID: MB 880-89729/1-/	\										Client Sa	mple ID:	Method	Blank
Matrix: Solid	-												Гуре: То	
														CONTRACT
Analysis Batch: 90076												Dron	Batch:	90720

	MB	МВ							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		08/29/24 17:08	09/04/24 13:59	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		08/29/24 17:08	09/04/24 13:59	1
C10-C28)									
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/29/24 17:08	09/04/24 13:59	1

Eurofins Midland

Job ID: 880-47910-1

SDG: Lea Co., NM

QC Sample Results

Client: Crain Environmental Project/Site: Lea 407

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-897	7 29/1-A							Client Sa	ample ID:	Method	Blan
Matrix: Solid									Prep T	Type: To	otal/N
Analysis Batch: 90076									Prep	Batch:	8972
		MB MB									
Surroacto	% Paga		Limits					roporod	Analyz	ad	Dil Fa
Surrogate 1-Chlorooctane	%Reco	84 Quaimer						repared 9/24 17:08	09/04/24		DIIFa
p-Terphenyl		80	70 - 130 70 - 130					29/24 17:08	09/04/24		
J- Telphenyi		80	70 - 750				00/2	.9/24 17.00	03/04/24	13.39	
Lab Sample ID: LCS 880-89	729/2-A						Client	Sample	ID: Lab Co	ontrol S	amp
Matrix: Solid									Prep T	Type: To	otal/N
Analysis Batch: 90076									Prep	Batch:	8972
			Spike	LCS	LCS				%Rec		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics			1000	1160		mg/Kg		116	70 - 130		
(GRO)-C6-C10											
Diesel Range Organics (Over			1000	1051		mg/Kg		105	70 - 130		
C10-C28)											
	LCS	LCS									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane			70 - 130								
o-Terphenyl	110		70 - 130								
			SDIKE	LCSD	LCSD				%Rec		RF
Analyte			Spike Added		LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	
			•			Unit mg/Kg	<u>D</u>	%Rec		RPD	Lin
Gasoline Range Organics GRO)-C6-C10			Added	Result 1146			<u>D</u>	115	Limits 70 - 130	1	Lin
Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over			Added	Result			<u>D</u>		Limits		Lin
Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over			Added	Result 1146		mg/Kg	<u> </u>	115	Limits 70 - 130	1	Lin
Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	LCSD		Added	Result 1146		mg/Kg	<u>D</u>	115	Limits 70 - 130	1	Lin
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate	%Recovery		Added 1000 1000 <i>Limits</i>	Result 1146		mg/Kg	<u> </u>	115	Limits 70 - 130	1	Lin
Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate I-Chlorooctane	%Recovery 106		Added 1000 1000 Limits 70 - 130	Result 1146		mg/Kg	<u> </u>	115	Limits 70 - 130	1	Lin
Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate -Chlorooctane	%Recovery		Added 1000 1000 <i>Limits</i>	Result 1146		mg/Kg	<u>D</u>	115	Limits 70 - 130	1	Lin
Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate I-Chlorooctane D-Terphenyl	%Recovery 106 110		Added 1000 1000 Limits 70 - 130	Result 1146		mg/Kg	<u> </u>	115	Limits 70 - 130 70 - 130	1 0	Lin
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane p-Terphenyl Lab Sample ID: 880-47910-1	%Recovery 106 110		Added 1000 1000 Limits 70 - 130	Result 1146		mg/Kg	<u>D</u>	115	Limits 70 - 130 70 - 130 Sample II	1 0 D: DS-1	
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-47910-1 Matrix: Solid	%Recovery 106 110		Added 1000 1000 Limits 70 - 130	Result 1146		mg/Kg	<u> </u>	115	Limits 70 - 130 70 - 130 Sample II Prep T	1 0 D: DS-1 Type: To	Lin 7 (5.t
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane p-Terphenyl Lab Sample ID: 880-47910-1 Matrix: Solid	%Recovery 106 110	Qualifier	Added 1000 1000 Limits 70 - 130	Result 1146 1055		mg/Kg	<u>D</u>	115	Limits 70 - 130 70 - 130 Sample II Prep T	1 0 D: DS-1	Lin : : : : : : : : : : : : : : : : : : :
Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate I-Chlorooctane D-Terphenyl Lab Sample ID: 880-47910-1 Matrix: Solid Analysis Batch: 90076		Qualifier	Added 1000 1000 <u>Limits</u> 70 - 130 70 - 130	Result 1146 1055 MS	Qualifier	mg/Kg	<u>D</u>	115	Limits 70 - 130 70 - 130 Sample II Prep T Prep	1 0 D: DS-1 Type: To	Lin : : : : : : : : : : : : : : : : : : :
Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane 2-Terphenyl Lab Sample ID: 880-47910-1 Matrix: Solid Analysis Batch: 90076 Analyte Gasoline Range Organics		Qualifier	Added 1000 1000 <u>Limits</u> 70 - 130 70 - 130 Spike	Result 1146 1055 MS	Qualifier	mg/Kg		115 106 Client	Limits 70 - 130 70 - 130 Sample II Prep T Prep %Rec	1 0 D: DS-1 Type: To	Lin : : : : : : : : : : : : : : : : : : :
Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane 2-Terphenyl Lab Sample ID: 880-47910-1 Matrix: Solid Analysis Batch: 90076 Analyte Gasoline Range Organics GRO)-C6-C10	%Recovery 106 110 12 MS Sample Result <50.0	Qualifier	Added 1000 1000 <u>Limits</u> 70 - 130 70 - 130 70 - 130 Spike Added 994	Result 1146 1055 MS Result 952.5	Qualifier MS Qualifier	mg/Kg mg/Kg <u>Unit</u> mg/Kg		115 106 Client %Rec 96	Limits 70 - 130 70 - 130 Sample II Prep T Prep 7 %Rec Limits 70 - 130	1 0 D: DS-1 Type: To	Lin : : : : : : : : : : : : : : : : : : :
Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane 2-Terphenyl Lab Sample ID: 880-47910-1 Matrix: Solid Analysis Batch: 90076 Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over	// <i>%Recovery</i> 106 110 12 MS Sample Result	Qualifier	Added 1000 1000 <u>Limits</u> 70 - 130 70 - 130 Spike Added	Result 1146 1055 MS Result	Qualifier MS Qualifier	mg/Kg mg/Kg		115 106 Client	Limits 70 - 130 70 - 130 Sample II Prep T Prep %Rec Limits	1 0 D: DS-1 Type: To	Lin : : : : : : : : : : : : : : : : : : :
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-47910-1 Matrix: Solid Analysis Batch: 90076 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	%Recovery 106 110 12 MS Sample Result <50.0	Qualifier	Added 1000 1000 <u>Limits</u> 70 - 130 70 - 130 70 - 130 Spike Added 994	Result 1146 1055 MS Result 952.5	Qualifier MS Qualifier	mg/Kg mg/Kg <u>Unit</u> mg/Kg		115 106 Client %Rec 96	Limits 70 - 130 70 - 130 Sample II Prep T Prep 7 %Rec Limits 70 - 130	1 0 D: DS-1 Type: To	Lin 2 7 (5.5 0tal/N
Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane p-Terphenyl Lab Sample ID: 880-47910-1 Matrix: Solid Analysis Batch: 90076 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<u>%Recovery</u> 106 110 12 MS Sample <u>Result</u> <50.0 430	Qualifier	Added 1000 1000 <u>Limits</u> 70 - 130 70 - 130 70 - 130 Spike Added 994	Result 1146 1055 MS Result 952.5	Qualifier MS Qualifier	mg/Kg mg/Kg <u>Unit</u> mg/Kg		115 106 Client %Rec 96	Limits 70 - 130 70 - 130 Sample II Prep T Prep 7 %Rec Limits 70 - 130	1 0 D: DS-1 Type: To	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 880-47910-1 Matrix: Solid Analysis Batch: 90076 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane	<u>%Recovery</u> 106 110 12 MS <u>Sample</u> <u>Result</u> <50.0 430 <i>MS</i>	Qualifier	Added 1000 1000 1000 1000 Limits 70 - 130 70 - 130 Spike Added 994 994	Result 1146 1055 MS Result 952.5	Qualifier MS Qualifier	mg/Kg mg/Kg <u>Unit</u> mg/Kg		115 106 Client %Rec 96	Limits 70 - 130 70 - 130 Sample II Prep T Prep 7 %Rec Limits 70 - 130	1 0 D: DS-1 Type: To	otal/N

Lab Sample ID: 880-47910-12 MSD

Lab Sample ID: MB 880-89959/1-A

QC Sample Results

Analysis Batch: 90076

Gasoline Range Organics

Diesel Range Organics (Over

Analysis Batch: 89933

Gasoline Range Organics

Diesel Range Organics (Over

Oil Range Organics (Over C28-C36)

Lab Sample ID: LCS 880-89959/2-A

Lab Sample ID: LCSD 880-89959/3-A

Matrix: Solid

(GRO)-C6-C10

C10-C28)

Surrogate

o-Terphenyl

Analyte

C10-C28)

Surrogate

o-Terphenyl

Analyte

C10-C28)

Surrogate

o-Terphenyl

Analyte

C10-C28)

1-Chlorooctane

Matrix: Solid

(GRO)-C6-C10

Analysis Batch: 89933

Gasoline Range Organics

Diesel Range Organics (Over

1-Chlorooctane

Matrix: Solid

(GRO)-C6-C10

Analysis Batch: 89933

Gasoline Range Organics

Diesel Range Organics (Over

1-Chlorooctane

Matrix: Solid

(GRO)-C6-C10

Analyte

%Recovery

LCS LCS

93 105 Qualifier

%Recovery

Client Sample ID: DS-17 (5.5')

Limits

70 - 130

70 - 130

Client Sample ID: Lab Control Sample Dup

%Rec

Limits

70 - 130

70 - 130

	-		• "								Prep	ype: To Batch:	89729	4 5
Sample		•	Spike		MSD				_		%Rec		RPD	J
Result		lifier	Added	Result	Qua	lifier	Unit			%Rec	Limits	RPD	Limit	
<50.0	U		994	999.9			mg/Kg			101	70 - 130	5	20	
430	F1		994	894.9	F1		mg/Kg			47	70 - 130	2	20	7
MSD	MSD)												8
Recovery	Qua	lifier	Limits											
101		_	70 - 130											Q
97			70 - 130											
										Client Sa	mple ID: I	Method	Blank	
												ype: To		
												Batch:		
	мв	МВ												
R	esult	Qualifier		RL	MDL	Unit		D	Р	repared	Analyz	ed	Dil Fac	
	<50.0	U		50.0		mg/Kg	9	_	09/0	3/24 08:00	09/03/24	09:37	1	
														13
•	<50.0	U		50.0		mg/Kg	9		09/0	3/24 08:00	09/03/24	09:37	1	
	<50.0	U		50.0		mg/Kg)		09/0	3/24 08:00	09/03/24	09:37	1	
	ΜВ	MB												
%Reco	overy	Qualifier	Limit	s					Р	repared	Analyz	ed	Dil Fac	
	66	S1-	70 - 1	30					09/0	3/24 08:00	09/03/24	09:37	1	
	74		70 - 1	30					09/0	3/24 08:00	09/03/24	09:37	1	
								С	lient	Sample	ID: Lab Co	ontrol S	ample	
										-		ype: To		
												Batch:		
			Spike	LCS	LCS						%Rec			

Released to Imaging: 3/4/2025 1:55:48 PM

Added

1000

1000

Limits

70 - 130

70 - 130

Spike

Added

1000

1000

Result

863.4

1029

LCSD LCSD

920.5

1041

Result Qualifier

Qualifier

Unit

mg/Kg

mg/Kg

Unit

mg/Kg

mg/Kg

D

D

%Rec

92

104

%Rec

86

103

Eurofins Midland

Prep Type: Total/NA

Prep Batch: 89959

RPD

6

1

RPD

Limit

20

20

Job ID: 880-47910-1 SDG: Lea Co., NM

Client: Crain Environmental Project/Site: Lea 407

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-89959	9/3-A							Cli	ent S	Sam	ple ID:	Lab Contro	ol Samp	le Dup
Matrix: Solid												Prep	Type: To	otal/NA
Analysis Batch: 89933													Batch:	
	LCSD LCS	SD												
Surrogate	%Recovery Qua	alifier	Limits											
1-Chlorooctane	95		70 - 130	-										
o-Terphenyl	102		70 - 130											
lethod: 300.0 - Anions, Ion	Chromatog	raphy												
Lab Sample ID: MB 880-89745/1	-^										Client S	Sample ID:	Method	Blank
Matrix: Solid	~										onent e		Type: S	
Analysis Batch: 89797												Tieb	Type. o	olubid
Analysis Datch. 09797	МВ	МВ												
Analyta	Result			RL		MDL	Unit		D	Dr	repared	Analy	bot	Dil Fac
Analyte	Kesun <5.00	·		5.00		WDL			<u> </u>	FI	epareu	Analy 09/03/24		
Chionde	<5.00	0		5.00			mg/Kg					09/03/24	14.01	
Lab Sample ID: LCS 880-89745/	2-4								Cli	ont	Sample	e ID: Lab C	ontrol S	amnle
Matrix: Solid									011	unt	oumpic		Type: S	
Analysis Batch: 89797												Tieb	Type. o	olubic
Analysis Baten. 09797			Spike		109	LCS						%Rec		
Analyte			Added		Result		ifior	Unit		D	%Rec	Limits		
Chloride			250		244.5	Quai		mg/Kg				90 - 110		
Chionde			200		244.5			mg/Kg			90	90 - 110		
Lab Sample ID: LCSD 880-8974	5/3-A							Cli	ent S	Sam	ple ID:	Lab Contro		le Dup
												Prep	Type: S	oluble
			Spike		LCSD	LCSI	D						Type: S	
Matrix: Solid Analysis Batch: 89797			Spike Added		LCSD Result			Unit		D	%Rec	%Rec		RPD
Analysis Batch: 89797 Analyte			Added		Result			Unit ma/Ka		<u>D</u> .	%Rec	%Rec Limits	RPD	RPI Limi
Analysis Batch: 89797 Analyte								Unit mg/Kg		<u>D</u> .	%Rec 98	%Rec		RPI Limi
Analysis Batch: 89797 Analyte Chloride	- A		Added		Result					_ ·	98	%Rec Limits 90 - 110	RPD	RPI Limi 20
Analysis Batch: 89797 Analyte Chloride Lab Sample ID: MB 880-89746/1	- A		Added		Result					_ ·	98	%Rec Limits 90 - 110	RPD 0	RPI Limi 20 Blank
Analysis Batch: 89797 Analyte Chloride Lab Sample ID: MB 880-89746/1 Matrix: Solid	- A		Added		Result					_ ·	98	%Rec Limits 90 - 110	RPD	RPI Limi 20 Blant
			Added		Result					_ ·	98	%Rec Limits 90 - 110	RPD 0	RPE Limi 20 Blank
Analysis Batch: 89797 Analyte Chloride Lab Sample ID: MB 880-89746/1 Matrix: Solid Analysis Batch: 89823	МВ		Added	RL	Result 244.7	Qual	ifier				98 Client S	%Rec Limits 90 - 110 Sample ID: Prep	RPD 0 Method Type: S	RPI Limi 20 Blani Goluble
Analysis Batch: 89797 Analyte Chloride Lab Sample ID: MB 880-89746/1 Matrix: Solid Analysis Batch: 89823 Analyte	MB	Qualifier	Added		Result 244.7		Unit	mg/Kg	<u> </u>		98	%Rec Limits 90 - 110 Sample ID: Prep Analy	RPD 0 Method Type: S	RPE Limi 20 Blank Soluble
Analysis Batch: 89797 Analyte Chloride Lab Sample ID: MB 880-89746/1 Matrix: Solid Analysis Batch: 89823 Analyte	МВ	Qualifier	Added	RL 5.00	Result 244.7	Qual	ifier	mg/Kg	<u>D</u>		98 Client S	%Rec Limits 90 - 110 Sample ID: Prep	RPD 0 Method Type: S	RPI Limi 20 Blani Goluble
Analysis Batch: 89797 Analyte Chloride Lab Sample ID: MB 880-89746/1 Matrix: Solid Analysis Batch: 89823 Analyte Chloride	MB 	Qualifier	Added		Result 244.7	Qual	Unit	mg/Kg		Pr	98 Client S	%Rec Limits 90 - 110 Sample ID: Prep 	RPD 0 Method Type: S 20:04	RPI Limi 20 Blani Soluble Dil Fa
Analysis Batch: 89797 Analyte Chloride Lab Sample ID: MB 880-89746/1 Matrix: Solid Analysis Batch: 89823 Analyte Chloride Lab Sample ID: LCS 880-89746/2	MB 	Qualifier	Added		Result 244.7	Qual	Unit	mg/Kg		Pr	98 Client S	%Rec Limits 90 - 110 Sample ID: Prep 	RPD 0 Method Type: S 20:04	RPC Limi 20 Blank Soluble Dil Fac
Analysis Batch: 89797 Analyte Chloride Lab Sample ID: MB 880-89746/1 Matrix: Solid Analysis Batch: 89823 Analyte Chloride Lab Sample ID: LCS 880-89746/2 Matrix: Solid	MB 	Qualifier	Added		Result 244.7	Qual	Unit	mg/Kg		Pr	98 Client S	%Rec Limits 90 - 110 Sample ID: Prep 	RPD 0 Method Type: S 20:04	RPC Limi 20 Blank Soluble Dil Fac
Analysis Batch: 89797 Analyte Chloride Lab Sample ID: MB 880-89746/1 Matrix: Solid Analysis Batch: 89823 Analyte	MB 	Qualifier	Added 250		Result 244.7	Qual	Unit	mg/Kg		Pr	98 Client S	%Rec Limits 90 - 110 Sample ID: Prep Analy 09/03/24 e ID: Lab C Prep	RPD 0 Method Type: S 20:04	RPE Limi 20 Blank Soluble Dil Fac
Analysis Batch: 89797 Analyte Chloride Lab Sample ID: MB 880-89746/1 Matrix: Solid Analysis Batch: 89823 Analyte Chloride Lab Sample ID: LCS 880-89746/2 Matrix: Solid Analysis Batch: 89823	MB 	Qualifier	Added 250		LCS	Qual MDL LCS	<mark>Unit</mark> mg/Kg	mg/Kg		Pr ent	98 Client S repared Sample	%Rec Limits 90 - 110 Sample ID: Prep Analy 09/03/24 e ID: Lab C Prep %Rec	RPD 0 Method Type: S 20:04	RPC Limi 20 Blank Soluble Dil Fac
Analysis Batch: 89797 Analyte Chloride Lab Sample ID: MB 880-89746/1 Matrix: Solid Analysis Batch: 89823 Analyte Chloride Lab Sample ID: LCS 880-89746/2 Matrix: Solid Analysis Batch: 89823 Analyte	MB 	Qualifier	Added 250 Spike Added		Result 244.7 LCS Result	Qual MDL LCS	<mark>Unit</mark> mg/Kg	Unit		Pr	98 Client S repared Sample	%Rec Limits 90 - 110 Cample ID: Prep 09/03/24 e ID: Lab C Prep %Rec Limits	RPD 0 Method Type: S 20:04	RPC Limi 20 Blank Soluble Dil Fac
Analysis Batch: 89797 Analyte Chloride Lab Sample ID: MB 880-89746/1 Matrix: Solid Analysis Batch: 89823 Analyte Chloride Lab Sample ID: LCS 880-89746/2 Matrix: Solid Analysis Batch: 89823 Analyte	MB 	Qualifier	Added 250		LCS	Qual MDL LCS	<mark>Unit</mark> mg/Kg	mg/Kg		Pr ent	98 Client S repared Sample	%Rec Limits 90 - 110 Sample ID: Prep Analy 09/03/24 e ID: Lab C Prep %Rec	RPD 0 Method Type: S 20:04	RPC Limi 20 Blank Soluble Dil Fac
Analysis Batch: 89797 Analyte Chloride Lab Sample ID: MB 880-89746/1 Matrix: Solid Analysis Batch: 89823 Analyte Chloride Lab Sample ID: LCS 880-89746/2 Matrix: Solid Analysis Batch: 89823 Analyte Chloride	MB 	Qualifier	Added 250 Spike Added		Result 244.7 LCS Result	Qual MDL LCS	<mark>Unit</mark> mg/Kg	Unit mg/Kg	Cli	Pr ent	98 Client S repared Sample	%Rec Limits 90 - 110 Sample ID: Prep	 Method Type: S zed 20:04 Control S Type: S	RPI Limi 20 Blank Goluble Dil Fae Goluble
Analysis Batch: 89797 Analyte Chloride Lab Sample ID: MB 880-89746/1 Matrix: Solid Analysis Batch: 89823 Analyte Chloride Lab Sample ID: LCS 880-89746/2 Matrix: Solid Analysis Batch: 89823 Analyte Chloride Lab Sample ID: LCSD 880-89744	MB 	Qualifier	Added 250 Spike Added		Result 244.7 LCS Result	Qual MDL LCS	<mark>Unit</mark> mg/Kg	Unit mg/Kg	Cli	Pr ent	98 Client S repared Sample	%Rec Limits 90 - 110 Sample ID: Prep Manaly 09/03/24 Prep %Rec Limits 90 - 110 Lab Contro	RPD 0 Method Type: S 20:04 20:04 Control S Type: S	RPI Limi 2(Blank Goluble Dil Fac Gample Goluble
Analysis Batch: 89797 Analyte Chloride Lab Sample ID: MB 880-89746/1 Matrix: Solid Analysis Batch: 89823 Analyte Chloride Lab Sample ID: LCS 880-89746/2 Matrix: Solid Analysis Batch: 89823 Analyte Chloride Lab Sample ID: LCSD 880-89744 Matrix: Solid	MB 	Qualifier	Added 250 Spike Added		Result 244.7 LCS Result	Qual MDL LCS	<mark>Unit</mark> mg/Kg	Unit mg/Kg	Cli	Pr ent	98 Client S repared Sample	%Rec Limits 90 - 110 Sample ID: Prep Manaly 09/03/24 Prep %Rec Limits 90 - 110 Lab Contro	 Method Type: S zed 20:04 Control S Type: S	RPE Limi 2(Blank Goluble Dil Fac Gample Goluble
Analysis Batch: 89797 Analyte Chloride Lab Sample ID: MB 880-89746/1 Matrix: Solid Analysis Batch: 89823 Analyte Chloride Lab Sample ID: LCS 880-89746/2 Matrix: Solid	MB 	Qualifier	Added 250 Spike Added 250		Result 244.7 LCS Result 246.3	Qual MDL LCS Qual	<u>Unit</u> mg/Kg	Unit mg/Kg	Cli	Pr ent	98 Client S repared Sample	%Rec Limits 90 - 110 Sample ID: Prep Analy 09/03/24 e ID: Lab C Prep %Rec Limits 90 - 110 Lab Contro	RPD 0 Method Type: S 20:04 20:04 Control S Type: S	RPD Limit 20 Blank Soluble Dil Fac 1 Sample Soluble
Analysis Batch: 89797 Analyte Chloride Lab Sample ID: MB 880-89746/1 Matrix: Solid Analysis Batch: 89823 Analyte Chloride Lab Sample ID: LCS 880-89746/2 Matrix: Solid Analysis Batch: 89823 Analyte Chloride Lab Sample ID: LCSD 880-89744 Matrix: Solid	MB 	Qualifier	Added 250 Spike Added		Result 244.7 LCS Result	Qual MDL LCS Qual	ifier mg/Kg ifier	Unit mg/Kg	Cli	Pr ent	98 Client S repared Sample	%Rec Limits 90 - 110 Sample ID: Prep Manaly 09/03/24 Prep %Rec Limits 90 - 110 Lab Contro	RPD 0 Method Type: S 20:04 20:04 Control S Type: S	RPD Limit 20 Blank Goluble Dil Fac 1 Gample Goluble

Client: Crain Environmental

Job ID: 880-47910-1 SDG: Lea Co., NM

Project/Site: Lea 407 Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-47910-8 MS Matrix: Solid Analysis Batch: 89823								Clien	t Sample II Prep	D: DS-13 Type: S	· · ·
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	1840	F1	1260	3646	F1	mg/Kg		144	90 - 110		
Lab Sample ID: 880-47910-8 MSD								Clien	t Sample II	D: DS-13	3 (3.5')
Matrix: Solid									Prep	Type: S	oluble
Analysis Batch: 89823											
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	1840	F1	1260	3647	F1	mg/Kg		144	90 - 110	0	20

Client Sample ID

DS-1 (5.5')

DS-2 (0-4')

DS-3 (0-4')

DS-4 (0-4')

DS-9 (0-4')

DS-10 (0-4')

Method Blank

Lab Control Sample

Client Sample ID

DS-17 (5.5')

Method Blank

DS-17 (5.5')

DS-17 (5.5')

Lab Control Sample

Lab Control Sample Dup

DS-18 (5')

Lab Control Sample Dup

QC Association Summary

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Client: Crain Environmental Project/Site: Lea 407

GC Semi VOA

Lab Sample ID

880-47910-1

880-47910-2

880-47910-3

880-47910-4

880-47910-5

880-47910-6

MB 880-89728/1-A

LCS 880-89728/2-A

LCSD 880-89728/3-A

Prep Batch: 89729

880-47910-12

880-47910-13

MB 880-89729/1-A

LCS 880-89729/2-A

LCSD 880-89729/3-A

880-47910-12 MS

880-47910-12 MSD

Prep Batch: 89728

Method

8015NM Prep

Method

Matrix

Solid

Solid

Solid

Solid

Solid

Solid

Solid

Solid

Solid

Matrix

Solid

Solid

Solid

Solid

Solid

Solid

Solid

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Prep Batch

Prep Batch

5
8
8 9
9
9 10
9 10

_		
Analysis	Batch:	89778

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47910-1	DS-1 (5.5')	Total/NA	Solid	8015B NM	89728
880-47910-2	DS-2 (0-4')	Total/NA	Solid	8015B NM	89728
880-47910-3	DS-3 (0-4')	Total/NA	Solid	8015B NM	89728
880-47910-4	DS-4 (0-4')	Total/NA	Solid	8015B NM	89728
880-47910-5	DS-9 (0-4')	Total/NA	Solid	8015B NM	89728
880-47910-6	DS-10 (0-4')	Total/NA	Solid	8015B NM	89728
MB 880-89728/1-A	Method Blank	Total/NA	Solid	8015B NM	89728
LCS 880-89728/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	89728
LCSD 880-89728/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	89728

Analysis Batch: 89933

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47910-7	DS-12 (4.5')	Total/NA	Solid	8015B NM	89959
880-47910-8	DS-13 (3.5')	Total/NA	Solid	8015B NM	89959
880-47910-9	DS-14 (3.5')	Total/NA	Solid	8015B NM	89959
880-47910-10	DS-15 (0-4')	Total/NA	Solid	8015B NM	89959
880-47910-11	DS-16 (0-3')	Total/NA	Solid	8015B NM	89959
MB 880-89959/1-A	Method Blank	Total/NA	Solid	8015B NM	89959
LCS 880-89959/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	89959
LCSD 880-89959/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	89959

Prep Batch: 89959

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
880-47910-7	DS-12 (4.5')	Total/NA	Solid	8015NM Prep	
880-47910-8	DS-13 (3.5')	Total/NA	Solid	8015NM Prep	
880-47910-9	DS-14 (3.5')	Total/NA	Solid	8015NM Prep	
880-47910-10	DS-15 (0-4')	Total/NA	Solid	8015NM Prep	
880-47910-11	DS-16 (0-3')	Total/NA	Solid	8015NM Prep	
MB 880-89959/1-A	Method Blank	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Crain Environmental Project/Site: Lea 407

GC Semi VOA (Continued)

Prep Batch: 89959 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-89959/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-89959/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 90059

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47910-1	DS-1 (5.5')	Total/NA	Solid	8015 NM	
880-47910-2	DS-2 (0-4')	Total/NA	Solid	8015 NM	
880-47910-3	DS-3 (0-4')	Total/NA	Solid	8015 NM	
880-47910-4	DS-4 (0-4')	Total/NA	Solid	8015 NM	
880-47910-5	DS-9 (0-4')	Total/NA	Solid	8015 NM	
880-47910-6	DS-10 (0-4')	Total/NA	Solid	8015 NM	
880-47910-7	DS-12 (4.5')	Total/NA	Solid	8015 NM	
880-47910-8	DS-13 (3.5')	Total/NA	Solid	8015 NM	
880-47910-9	DS-14 (3.5')	Total/NA	Solid	8015 NM	
880-47910-10	DS-15 (0-4')	Total/NA	Solid	8015 NM	
880-47910-11	DS-16 (0-3')	Total/NA	Solid	8015 NM	
880-47910-12	DS-17 (5.5')	Total/NA	Solid	8015 NM	
880-47910-13	DS-18 (5')	Total/NA	Solid	8015 NM	

Analysis Batch: 90076

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47910-12	DS-17 (5.5')	Total/NA	Solid	8015B NM	89729
880-47910-13	DS-18 (5')	Total/NA	Solid	8015B NM	89729
MB 880-89729/1-A	Method Blank	Total/NA	Solid	8015B NM	89729
LCS 880-89729/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	89729
LCSD 880-89729/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	89729
880-47910-12 MS	DS-17 (5.5')	Total/NA	Solid	8015B NM	89729
880-47910-12 MSD	DS-17 (5.5')	Total/NA	Solid	8015B NM	89729

HPLC/IC

Leach Batch: 89745

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47910-1	DS-1 (5.5')	Soluble	Solid	DI Leach	
880-47910-2	DS-2 (0-4')	Soluble	Solid	DI Leach	
880-47910-3	DS-3 (0-4')	Soluble	Solid	DI Leach	
880-47910-4	DS-4 (0-4')	Soluble	Solid	DI Leach	
880-47910-5	DS-9 (0-4')	Soluble	Solid	DI Leach	
880-47910-6	DS-10 (0-4')	Soluble	Solid	DI Leach	
880-47910-7	DS-12 (4.5')	Soluble	Solid	DI Leach	
MB 880-89745/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-89745/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-89745/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Leach Batch: 89746

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-47910-8	DS-13 (3.5')	Soluble	Solid	DI Leach	
880-47910-9	DS-14 (3.5')	Soluble	Solid	DI Leach	
880-47910-10	DS-15 (0-4')	Soluble	Solid	DI Leach	
880-47910-11	DS-16 (0-3')	Soluble	Solid	DI Leach	
880-47910-12	DS-17 (5.5')	Soluble	Solid	DI Leach	

5

QC Association Summary

Client: Crain Environmental Project/Site: Lea 407

HPLC/IC (Continued)

Leach Batch: 89746 (Continued)

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
880-47910-13	DS-18 (5')	Soluble	Solid	DI Leach	
MB 880-89746/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-89746/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-89746/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-47910-8 MS	DS-13 (3.5')	Soluble	Solid	DI Leach	
880-47910-8 MSD	DS-13 (3.5')	Soluble	Solid	DI Leach	

Analysis Batch: 89797

Lab Sample ID Client Sample ID Prep Type Matrix Method Prep Bate 880-47910-1 DS-1 (5.5') Soluble Soluble Solid 300.0 8974 880-47910-2 DS-2 (0-4') Soluble Soluble Solid 300.0 8974 880-47910-3 DS-3 (0-4') Soluble Soluble Solid 300.0 8974 880-47910-4 DS-4 (0-4') Soluble Soluble Solid 300.0 8974 880-47910-5 DS-9 (0-4') Soluble Solid 300.0 8974 880-47910-5 DS-9 (0-4') Soluble Solid 300.0 8974 880-47910-5 DS-9 (0-4') Soluble Solid 300.0 8974 880-47910-6 DS-10 (0-4') Soluble Solid 300.0 8974 880-47910-7 DS-12 (4.5') Soluble Solid 300.0 8974	
880-47910-2 DS-2 (0-4') Soluble Solid 300.0 8974 880-47910-3 DS-3 (0-4') Soluble Solid 300.0 8974 880-47910-4 DS-4 (0-4') Soluble Solid 300.0 8974 880-47910-5 DS-9 (0-4') Soluble Solid 300.0 8974 880-47910-5 DS-9 (0-4') Soluble Solid 300.0 8974 880-47910-6 DS-10 (0-4') Soluble Solid 300.0 8974	1
880-47910-3 DS-3 (0-4') Soluble Solid 300.0 8974 880-47910-4 DS-4 (0-4') Soluble Solid 300.0 8974 880-47910-5 DS-9 (0-4') Soluble Solid 300.0 8974 880-47910-5 DS-9 (0-4') Soluble Solid 300.0 8974 880-47910-6 DS-10 (0-4') Soluble Solid 300.0 8974	i g
880-47910-4 DS-4 (0-4') Soluble Solid 300.0 8974 880-47910-5 DS-9 (0-4') Soluble Solid 300.0 8974 880-47910-6 DS-10 (0-4') Soluble Solid 300.0 8974	;
880-47910-5 DS-9 (0-4') Soluble Solid 300.0 8974 880-47910-6 DS-10 (0-4') Soluble Solid 300.0 8974	; 1
880-47910-6 DS-10 (0-4') Soluble Solid 300.0 8974	;
	5 A
880-47910-7 DS-12 (4 5') Soluble Solid 300.0 8974	;
	;
MB 880-89745/1-A Method Blank Soluble Solid 300.0 8974	;
LCS 880-89745/2-A Lab Control Sample Soluble Solid 300.0 8974	;
LCSD 880-89745/3-A Lab Control Sample Dup Soluble Solid 300.0 8974	;

Analysis Batch: 89823

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
880-47910-8	DS-13 (3.5')	Soluble	Solid	300.0	89746
880-47910-9	DS-14 (3.5')	Soluble	Solid	300.0	89746
880-47910-10	DS-15 (0-4')	Soluble	Solid	300.0	89746
880-47910-11	DS-16 (0-3')	Soluble	Solid	300.0	89746
880-47910-12	DS-17 (5.5')	Soluble	Solid	300.0	89746
880-47910-13	DS-18 (5')	Soluble	Solid	300.0	89746
MB 880-89746/1-A	Method Blank	Soluble	Solid	300.0	89746
LCS 880-89746/2-A	Lab Control Sample	Soluble	Solid	300.0	89746
LCSD 880-89746/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	89746
880-47910-8 MS	DS-13 (3.5')	Soluble	Solid	300.0	89746
880-47910-8 MSD	DS-13 (3.5')	Soluble	Solid	300.0	89746

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Job ID: 880-47910-1 SDG: Lea Co., NM

Lab Chronicle

Client: Crain Environmental Project/Site: Lea 407

Client Sample ID: DS-1 (5.5')

Date Collected: 08/27/24 12:20 Date Received: 08/29/24 15:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			90059	08/30/24 15:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	89728	08/29/24 17:06	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	89778	08/30/24 15:35	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	89745	08/30/24 08:01	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	89797	09/03/24 17:16	SMC	EET MID

Client Sample ID: DS-2 (0-4')

Date Collected: 08/27/24 12:25

Date Received: 08/29/24 15:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			90059	08/30/24 15:52	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	89728	08/29/24 17:06	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	89778	08/30/24 15:52	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	89745	08/30/24 08:01	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	89797	09/03/24 17:25	SMC	EET MID

Client Sample ID: DS-3 (0-4') Date Collected: 08/27/24 12:30 Date Received: 08/29/24 15:10

Batch Dil Initial Final Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA Analysis 8015 NM 1 90059 08/30/24 16:09 SM EET MID Total/NA Prep 8015NM Prep 10.08 g 10 mL 89728 08/29/24 17:06 EL EET MID Total/NA Analysis 8015B NM 1 1 uL 1 uL 89778 08/30/24 16:09 ткс EET MID Soluble Leach DI Leach 5.02 g 50 mL 89745 08/30/24 08:01 SA EET MID Soluble Analysis 300.0 50 mL 50 mL 89797 09/03/24 17:33 SMC EET MID 1

Client Sample ID: DS-4 (0-4') Date Collected: 08/27/24 12:35

Date Received: 08/29/24 15:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			90059	08/30/24 16:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	89728	08/29/24 17:06	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	89778	08/30/24 16:25	TKC	EET MID
Soluble	Leach	DI Leach			5.30 g	50 mL	89745	08/30/24 08:01	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	89797	09/03/24 17:41	SMC	EET MID

Client Sample ID: DS-9 (0-4') Date Collected: 08/27/24 12:40

Date Received: 08/29/24 15:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			90059	08/30/24 16:42	SM	EET MID

Eurofins Midland

Matrix: Solid

Job ID: 880-47910-1 SDG: Lea Co., NM

Lab Sample ID: 880-47910-1 Matrix: Solid

Lab Sample ID: 880-47910-2

9

Lab Sample ID: 880-47910-3

Lab Sample ID: 880-47910-4

Lab Sample ID: 880-47910-5

Matrix: Solid

Matrix: Solid

Client Sample ID: DS-9 (0-4')

Date Collected: 08/27/24 12:40 Date Received: 08/29/24 15:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	89728	08/29/24 17:06	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	89778	08/30/24 16:42	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	89745	08/30/24 08:01	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	89797	09/03/24 17:49	SMC	EET MID

Client Sample ID: DS-10 (0-4') Date Collected: 08/27/24 12:45 Date Received: 08/29/24 15:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			90059	08/30/24 16:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	89728	08/29/24 17:06	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	89778	08/30/24 16:59	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	89745	08/30/24 08:01	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	89797	09/03/24 17:57	SMC	EET MID

Client Sample ID: DS-12 (4.5') Date Collected: 08/27/24 12:50 Date Received: 08/29/24 15:10

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			90059	09/03/24 15:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	89959	09/03/24 12:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	89933	09/03/24 15:27	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	89745	08/30/24 08:01	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	89797	09/03/24 18:05	SMC	EET MID

Client Sample ID: DS-13 (3.5') Date Collected: 08/27/24 12:55

Date Received: 08/29/24 15:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			90059	09/03/24 15:41	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	89959	09/03/24 12:21	ткс	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	89933	09/03/24 15:41	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	89746	08/30/24 08:04	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	89823	09/03/24 20:30	SI	EET MID

Client Sample ID: DS-14 (3.5') Date Collected: 08/27/24 13:00

Date Received: 08/29/24 15:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			90059	09/03/24 15:57	SM	EET MID

Matrix: Solid

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Job ID: 880-47910-1 SDG: Lea Co., NM

Lab Sample ID: 880-47910-5 Matrix: Solid

Lab Sample ID: 880-47910-6

Lab Sample ID: 880-47910-7

Lab Sample ID: 880-47910-8

Lab Sample ID: 880-47910-9

Matrix: Solid

Matrix: Solid

Client Sample ID: DS-14 (3.5')

Date Collected: 08/27/24 13:00 Date Received: 08/29/24 15:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	89959	09/03/24 12:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	89933	09/03/24 15:57	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	89746	08/30/24 08:04	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	89823	09/03/24 20:57	SI	EET MID

Client Sample ID: DS-15 (0-4') Date Collected: 08/27/24 13:05 Date Received: 08/29/24 15:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			90059	09/03/24 16:11	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	89959	09/03/24 12:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	89933	09/03/24 16:11	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	89746	08/30/24 08:04	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	89823	09/03/24 21:06	SI	EET MID

Client Sample ID: DS-16 (0-3') Date Collected: 08/27/24 13:10 Date Received: 08/29/24 15:10

Batch Batch Dil Initial Final Batch Prepared Prep Type Method Run Amount Amount Number or Analyzed Туре Factor Analyst Lab Total/NA Analysis 8015 NM 90059 09/03/24 16:26 SM EET MID 1 Total/NA Prep 8015NM Prep 9.92 g 10 mL 89959 09/03/24 12:21 ткс EET MID Total/NA 8015B NM 1 uL 89933 09/03/24 16:26 TKC EET MID Analysis 1 1 uL Soluble Leach DI Leach 5.02 g 50 mL 89746 08/30/24 08:04 SA EET MID 300.0 89823 Analysis 50 mL 50 mL 09/03/24 21:14 SI EET MID Soluble 1

Client Sample ID: DS-17 (5.5') Date Collected: 08/27/24 13:15

Date Received: 08/29/24 15:10

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			90059	09/04/24 16:08	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	89729	08/29/24 17:09	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	90076	09/04/24 16:08	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	89746	08/30/24 08:04	SA	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	89823	09/03/24 21:23	SI	EET MID

Client Sample ID: DS-18 (5') Date Collected: 08/27/24 13:20 Date Received: 08/29/24 15:10

_										
	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			90059	09/04/24 16:55	SM	EET MID

Job ID: 880-47910-1 SDG: Lea Co., NM

Lab Sample ID: 880-47910-9 Matrix: Solid

Lab Sample ID: 880-47910-10

watrix: Solid

Matrix: Solid

Lab Sample ID: 880-47910-11

Lab Sample ID: 880-47910-12

Lab Sample ID: 880-47910-13

Matrix: Solid

Matrix: Solid

Eurofins Midland

Lab Chronicle

Client: Crain Environmental Project/Site: Lea 407 Job ID: 880-47910-1 SDG: Lea Co., NM

Matrix: Solid

Lab Sample ID: 880-47910-13

Client Sample ID: DS-18 (5') Date Collected: 08/27/24 13:20

Date Received: 08/29/24 15:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	89729	08/29/24 17:09	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	90076	09/04/24 16:55	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	89746	08/30/24 08:04	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	89823	09/03/24 21:50	SI	EET MID

Laboratory References:

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

Palaasad	to	Imaging	3/4/2025 1:55:48 F	27
Neieuseu	w	imaging:	3/4/2023 1:33:40 r	111

Accreditation/Certification Summary

Client: Crain Environmenta
Project/Site: Lea 407

Job ID: 880-47910-1 SDG: Lea Co., NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

thority		am	Identification Number	Expiration Date
xas	NELAI	C	T104704400	06-30-25
The following analy	tes are included in this report. bu	t the laboratory is not certif	fied by the governing authority. This lis	t may include analyte
for which the agend	y does not offer certification.	·····, ····		a may morado anaryto.
for which the agend Analysis Method	1 /	Matrix	Analyte	

Method Summary

Client: Crain Environmental Project/Site: Lea 407

Job ID: 880-47910-1 SDG: Lea Co., NM

Method	Method Description	Protocol	Laboratory
3015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
3015NM Prep	Microextraction	SW846	EET MID
01 Leach	Deionized Water Leaching Procedure	ASTM	EET MID
Protocol Refe			
	ASTM International		
	Environmental Protection Agency		
SW846 = 1	"Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Ec	dition, November 1986 And Its Updates.	
Laboratory R	eferences:		
-	e ferences: = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440		
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Laboratory References:

Sample Summary

Job ID: 880-47910-1
SDG: Lea Co., NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth	
880-47910-1	DS-1 (5.5')	Solid	08/27/24 12:20	08/29/24 15:10	5.5'	
880-47910-2	DS-2 (0-4')	Solid	08/27/24 12:25	08/29/24 15:10	0-4'	2
880-47910-3	DS-3 (0-4')	Solid	08/27/24 12:30	08/29/24 15:10	0-4'	
880-47910-4	DS-4 (0-4')	Solid	08/27/24 12:35	08/29/24 15:10	0-4'	
880-47910-5	DS-9 (0-4')	Solid	08/27/24 12:40	08/29/24 15:10	0-4'	
880-47910-6	DS-10 (0-4')	Solid	08/27/24 12:45	08/29/24 15:10	0-4'	
880-47910-7	DS-12 (4.5')	Solid	08/27/24 12:50	08/29/24 15:10	4.5'	
380-47910-8	DS-13 (3.5')	Solid	08/27/24 12:55	08/29/24 15:10	3.5'	
880-47910-9	DS-14 (3.5')	Solid	08/27/24 13:00	08/29/24 15:10	3.5'	
880-47910-10	DS-15 (0-4')	Solid	08/27/24 13:05	08/29/24 15:10	0-4'	
880-47910-11	DS-16 (0-3')	Solid	08/27/24 13:10	08/29/24 15:10	0-3'	
880-47910-12	DS-17 (5.5')	Solid	08/27/24 13:15	08/29/24 15:10	5.5'	
880-47910-13	DS-18 (5')	Solid	08/27/24 13:20	08/29/24 15:10	5'	Ē
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						Ī

880-47910 Chain of Custody	nents	ields RRC Superfund		PST/UST TRRP Level IV	Dther:	Preservative Codes	None: NO DI Water: H ₂ O	Cool: Cool MeOH: Me	HCL: HC HNO 3: HN		NaHSO 4: NABIS	Na 25 203: NaSO 3	Zn Acetate+NaOH: Zn	NaOH+Ascorbic Acid: SAPC	Sample Comments										TI Sn U V Zn /7470 /7471		Date/Time			
Wol 880-47910 CI	Work Order Comments	Program: UST/PST PRP Brownfields	roject: NM	vel II 🗌 Level III 🗍	Peliverables: EDD ADaPT		NG	0	<u>H</u>			Na	Zu	Z											K Se Ag SiO ₂ Na Sr Hg: 1631/245.1	tiated.	Received by: (Signature)			
tody TX (214) 902-0300 Io, TX (210) 509-3334 TX (806) 794-1296 NM (575) 988-3199	17 (341) 254- 9541		1 Frwy. Str. 725 State	X 77079 Repo	Cindy. Crain @ Amail. con: ryon Presayus to Deliv	ANALYSIS REQUEST			-																AI Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni CRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag TI U	actors. It assigns standard ter es are due to circumstances b se terms will be enforced unk	Relinquished by: (Signature)	2	4	6
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	Rear Swith		11757/44	Hauston. T	in Camail con:		Pres. Code			(6L2	amet		-igr	010	# of Cont	XX								VV	Sb As Ba Be B Cd A Sb As Ba Be Cd (Eurofins Xenco, its affiliates and spenses incurred by the client if of to Eurofins Xenco, but not anal	Date/Time	051 241 1510	_	
Houston Midland, T EL Paso, J Hobbs, N	Bill to: (if different)	Company Name:	Address:	City, State ZIP:		Around	Rush		TAT starts the day received by the lab, if received by 4:30pm	C C	N X X		9. h	1.5	Depth Grab/	5,5' C	6-0					-	0. v.	-	M Texas 11 PLP 6010 : 8R(rder from client company to ponsibility for any losses or e 5 for each sample submitter	re)	V		
Environment Testing Xenco	chin	oviron mental	I'M SI	TX 7976	- 7244 Email:	Tun	Routine	NM Due Date:		Vac.	Thermometer			Corrected Temperature:	Matrix Date Time Sampled	5 8/27/24 1220		1230	1235	04-61	1245		0021	V V 1305		t of samples constitutes a valid purchase or t of samples and shall not assume any resp applied to each project and a charge of S:	Received by: (Signature)	A		7
🐝 eurofins Enviro	Project Manager:	Prair 6	29.25 (City, State ZIP: ObleSSA,	Phone: (575) 44) - 7244	Project Name: Lea 407	Project Number:	Project Location: Lea Co. N	Sampler's Name: Cain	I E DECEIDT	Samples Received Intert: Veo No	Yes No	Seals: Yes No	Total Containers:	Sample Identification	D5-1 (5.5')	DS-2 (0-4)	Y	4	d,	(.1-0) 01-50		02-14 / 3.5.	.0	S S	Signature of this document and relinquishment ce. Eurofins Xenco will be liable only for the cos fins Xenco. A minimum charge of \$85.00 will be	Relinquished by (Signature)	inter san		

9/5/2024

17910 Page 2 of 2		ds RRC Superfund		ST TRRP Level IV	Other:	Preservative Codes	None: NO DI Water: H ₂ O	Cool: Cool MeOH: Me HCL: HC HNO 3: HN H SO . H NSOLI . NS		NaHSO 4: NABIS	Na 25 203: NaSO 3	Zn Acetate+NaOH: Zn	NaOH+Ascorbic Acid: SAPC	Sample Comments						n U V Zn 0 /7471		Date/Time			Revised Date: 08/25/2020 Rev. 2020.2	
Work Order No: U7910	Ē	Program: UST/PST PRP Brownfields	roject: NM	Reporting: Level II Level III PST/UST	Deliverables: EDD ADaPT		Non	Cool H CC	Dd ^E H	NaH	Na ₂ s	ZnA	NaO							Mo Ni K Se Ag SiO ₂ Na Sr TI Sn U V Zn TI U Hg: 1631/245.1/7470/7471	nditions control usy negotiated.	Received by: (Signature)				
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	Rua Switt		Katy From Ste. 725	on 1× 77079	٤	ANALYSIS REQUEST				Le la	5° 51	10:1. 18	101	14D 44L	X		× ×			A 13PPM Texas 11 AI Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K TCLP/SPLP6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U	if 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 5. Kenco will be lable only for the cost of samples and shall not assume any tespensibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control 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 negotisted.	Date/Time Relinquished by: (Signature)	out 15102	5	9	
	Bill to: (if different)		Address:	City, State ZIP:	Email: Cinhy. Crain@	Tum Around	Routine Rush Code	Due Date: TAT starts the day received by the lab, if received by 4:30pm	t Ice: Yes No	7	ed J	9.5.	ature: V,)	Time Depth Grab/ # of Sampled Comp Cont	1310 0.3' C 1	-	320 5' V V			13PPM Texas 11 AI Sb CLP / SPLP 6010 : 8RCRA Sh	chase order from client company to Eurofi any responsibility for any losses or expens rge of \$5 for each sample submitted to Eu	gnature)	A de			
Curofins Environment Testing Xenco	Project Manager:	Crain C	2925 0	City, State ZIP: (Dele 556, 78 7976)	1)- 7244	Project Name: Lea 407		Project Location: Lea Lo. NM Due Date: Sampler's Name: Lichy Cain TAT starts the lab fire	PLE RECEIPT Temp Blank: Yes No	Samples Received Intact: Ves No Thermometer ID:	Cooler Custody Seals: Yes No ADA Correction Factor:	seals: Yes No N/	Total Containers: Corrected Temperature:	Sample Identification Matrix Date Tin Matrix Sampled Sam	51 halfed 2 (10-31) 2 21 half 12	(2.2.)	DS-18 (5·) V V 13			Total 200.7 / 6010200.8 / 6020:8RCRACircle Method(s) and Metal(s) to be analyzedTC	Notice: Signature of this document and relinquisiment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of services. Eurofins Xenco will be lable only for the cost of samples and shall not assume any texponsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of services. Aminimum 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 nego	Rejinquished by: Signature) Received by: (Signature)	(indy) and	5		

9/5/2024

14

Job Number: 880-47910-1 SDG Number: Lea Co., NM

List Source: Eurofins Midland

Login Sample Receipt Checklist

Client: Crain Environmental

Login Number: 47910 List Number: 1

Creator: Vasquez, Julisa

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	N/A	

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

Received by OCD: 11/18/2024 4:59:27 PM



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Cindy Crain Crain Environmental 2925 E. 17th St. Odessa, Texas 79761 Generated 10/18/2024 7:18:47 PM

JOB DESCRIPTION

Lea 407 Lea Co., NM

JOB NUMBER

880-49899-1

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

AMER

Generated 10/18/2024 7:18:47 PM

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

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Definitions/Glossary

Client: Crain Environmental Project/Site: Lea 407

Job ID: 880-49899-1 SDG: Lea Co., NM

Qualifiers		3
GC Semi VOA		4
Qualifier U	Qualifier Description	4
	Indicates the analyte was analyzed for but not detected.	
HPLC/IC		5
Qualifier	Qualifier Description	
F1	MS and/or MSD recovery exceeds control limits.	
U	Indicates the analyte was analyzed for but not detected.	7
Glossary		
Abbreviation	These commonly used abbreviations may or may not be present in this report.	8
¢	Listed under the "D" column to designate that the result is reported on a dry weight basis	
%R	Percent Recovery	9
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

Job ID: 880-49899-1

Client: Crain Environmental Project: Lea 407

Job ID: 880-49899-1

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Job Narrative 880-49899-1

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 10/16/2024 4:36 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 1.2°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: DS-13 (4.3') (880-49899-1) and DS-14 (4.3') (880-49899-2).

Diesel Range Organics

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

HPLC/IC

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-93553 and analytical batch 880-93566 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

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Client Sample Results

Job ID: 880-49899-1 SDG: Lea Co., NM

Matrix: Solid

Client Sample ID: DS-13 (4.3')

Date Collected: 10/15/24 13:20 Date Received: 10/16/24 16:36

Client: Crain Environmental

Project/Site: Lea 407

_									
Method: SW846 8015 NM - Diese		ics (DRO) (Qualifier	GC) RL	MDI	Unit		Droporod	Analyzad	Dil Fac
Analyte		Quaimer		MDL		D	Prepared	Analyzed	
Total TPH	59.5		49.7		mg/Kg			10/17/24 14:45	1
- Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		10/17/24 09:02	10/17/24 14:45	1
Diesel Range Organics (Over C10-C28)	59.5		49.7		mg/Kg		10/17/24 09:02	10/17/24 14:45	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		10/17/24 09:02	10/17/24 14:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	73		70 - 130				10/17/24 09:02	10/17/24 14:45	1
o-Terphenyl	78		70 - 130				10/17/24 09:02	10/17/24 14:45	1
Chloride	874		10.1		mg/Kg			10/17/24 14:16	1
Client Sample ID: DS-14 (4.3	י <u>י</u>						Lab Sam	ple ID: 880-4	9899-2
Date Collected: 10/15/24 13:30	/								x: Solid
Date Received: 10/16/24 16:36								Math	x. 00110
Sample Depth: 4.3'									
Jumpie Boptini 4.0									
Method: SW846 8015 NM - Diese									
Analyte	Result	ics (DRO) (Qualifier		MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
				MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed	Dil Fac
Analyte	_ Result 110	Qualifier	RL 49.8	MDL		<u> </u>	Prepared		
Analyte Total TPH	Result 110 Sel Range Orga	Qualifier	RL 49.8			D	Prepared		
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	Result 110 Sel Range Orga	Qualifier	RL 49.8		mg/Kg		<u>.</u>	10/17/24 15:00	1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10	Result 110 Sel Range Orga Result <49.8	Qualifier	RL 49.8 (GC) RL 49.8		mg/Kg Unit mg/Kg		Prepared 10/17/24 09:02	Analyzed 10/17/24 15:00	1 Dil Fac 1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result 110 sel Range Orga Result	Qualifier	(GC)		mg/Kg Unit		Prepared	10/17/24 15:00 Analyzed	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10	Result 110 Sel Range Orga Result <49.8	Qualifier	RL 49.8 (GC) RL 49.8		mg/Kg Unit mg/Kg		Prepared 10/17/24 09:02	Analyzed 10/17/24 15:00	1 Dil Fac 1

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed
1-Chlorooctane	73	70 - 130	10/17/24 09:02	10/17/24 15:00
o-Terphenyl	79	70 - 130	10/17/24 09:02	10/17/24 15:00

Method: EPA 300.0 - Anions, Ion C	Method: EPA 300.0 - Anions, Ion Chromatography - Soluble												
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac				
Chloride	473	F1	10.0		mg/Kg			10/17/24 19:46	1				

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5

Dil Fac

1

1

Client: Crain Environmental Project/Site: Lea 407

Method: 8015B NM - Diesel Range Organics (DRO) (GC) Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
b Sample ID	Client Sample ID	(70-130)	(70-130)	
)-49899-1	DS-13 (4.3')	73	78	
0-49899-2	DS-14 (4.3')	73	79	
S 880-93520/2-A	Lab Control Sample	123	118	
D 880-93520/3-A	Lab Control Sample Dup	122	117	
880-93520/1-A	Method Blank	92	101	
Surrogate Legend				
1CO = 1-Chlorooctane				

OTPH = o-Terphenyl

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Job ID: 880-49899-1 SDG: Lea Co., NM

Prep Type: Total/NA

Lab Sample ID: MB 880-93520/1-A

QC Sample Results

RL

50.0

50.0

50.0

Limits

70 - 130

70 - 130

MDL Unit

Analysis Batch: 93537

Gasoline Range Organics

Diesel Range Organics (Over

Oil Range Organics (Over C28-C36)

Lab Sample ID: LCS 880-93520/2-A

Matrix: Solid

(GRO)-C6-C10

Analyte

C10-C28)

Surrogate

o-Terphenyl

1-Chlorooctane

Matrix: Solid

MB MB

<50.0 U

<50.0 U

<50.0 U

MB MB

%Recovery Qualifier

92

101

Result Qualifier

			Job ID: 880-	49899-1	
			SDG: Lea	Co., NM	
		Client Sa	mple ID: Metho	d Blank	
			· Prep Type: 1		
			Prep Batch		
Unit	D	Prepared	Analyzed	Dil Fac	
mg/Kg		10/17/24 09:02	10/17/24 09:14	1	
mg/Kg		10/17/24 09:02	10/17/24 09:14	1	
mg/Kg		10/17/24 09:02	10/17/24 09:14	1	
		Prepared	Analyzed	Dil Fac	
		10/17/24 09:02	10/17/24 09:14	1	
		10/17/24 09:02	10/17/24 09:14	1	
	с	lient Sample I	D: Lab Control	Sample	
	_		Prep Type: 1		
			Prep Batch		

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analysis Batch: 93537							Prep	Batch: 93520
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	1000	989.5		mg/Kg		99	70 - 130	
Diesel Range Organics (Over C10-C28)	1000	1014		mg/Kg		101	70 - 130	

	LCS LCS	
Surrogate	%Recovery Qualifie	er Limits
1-Chlorooctane	123	70 - 130
o-Terphenyl	118	70 - 130

Lab Sample ID:	LCSD	880-93520/3-A
Matrix: Solid		

Analysis Batch: 93537							Prep Batch: 935			
	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	1000	994.5		mg/Kg		99	70 - 130	1	20	
(GRO)-C6-C10										
Diesel Range Organics (Over	1000	1037		mg/Kg		104	70 - 130	2	20	
C10-C28)										

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	122		70 - 130
o-Terphenyl	117		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-93508 Matrix: Solid	3/1 -A						Client S	ample ID: Metho Prep Type:	
Analysis Batch: 93519									
	МВ	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			10/17/24 11:24	1

Client: Crain Environmental

Project/Site: Lea 407

Job ID: 880-49899-1 SDG: Lea Co., NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-93508/2-A								Clie	nt S	Sample	ID: Lab Co		
Matrix: Solid											Prep	Type: S	soluble
Analysis Batch: 93519			• •								~ -		
			Spike	_	LCS			_	_	~ -	%Rec		
Analyte			Added			Qualifier	Unit	[2	%Rec	Limits		
Chloride			250	2	227.5		mg/Kg			91	90 - 110		
Lab Sample ID: LCSD 880-93508/3- Matrix: Solid	A						Cli	ent Sa	mp	le ID: I	Lab Contro Prep	ol Samp Type: S	
Analysis Batch: 93519													
-			Spike	L	CSD	LCSD					%Rec		RPD
Analyte			Added	R	esult	Qualifier	Unit	0	5	%Rec	Limits	RPD	Limit
Chloride			250	2	223.8		mg/Kg			90	90 - 110	2	20
Lab Sample ID: MB 880-93553/1-A Matrix: Solid									C	lient S	ample ID: Prep	Method Type: S	
Analysis Batch: 93566													
		MB MB											
Analyte		esult Qualifier		RL		MDL Unit		D	Pre	pared	Analyz		Dil Fac
Chloride	<	<10.0 U		10.0		mg/Kg	9				10/17/24	19:25	1
_ Lab Sample ID: LCS 880-93553/2-A								Clie	nt S	Sample	D: Lab Co	ontrol S	ample
Matrix: Solid											Prep	Type: S	oluble
Analysis Batch: 93566													
-			Spike		LCS	LCS					%Rec		
Analyte			Added	R	esult	Qualifier	Unit	0	5	%Rec	Limits		
Chloride			250	2	225.1		mg/Kg			90	90 _ 110		
- Lab Sample ID: LCSD 880-93553/3-	Δ						Cli	ent Sa	mr	le ID: I	Lab Contro	l Samp	le Dup
Matrix: Solid												Type: S	
Analysis Batch: 93566												.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
			Spike	L	CSD	LCSD					%Rec		RPD
Analyte			Added			Qualifier	Unit		5	%Rec	Limits	RPD	Limit
Chloride			250		226.1		mg/Kg			90	90 - 110	0	20
Lab Sample ID: 880-49899-2 MS										Clien	t Sample II	D: DS-1	4 (4 3')
Matrix: Solid										•		Type: S	
Analysis Batch: 93566											Trop	Type. o	
Analysis Batch. 50000	Sample	Sample	Spike		MS	MS					%Rec		
Analyte		Qualifier	Added	D		Qualifier	Unit	г	5	%Rec	Limits		
Chloride	473		251		679.4		mg/Kg	-		82	90 - 110		
-	-		-	-			5 5						
Lab Sample ID: 880-49899-2 MSD										Clien	t Sample II	D: DS-1	4 (4.3')
Matrix: Solid											Prep	Type: S	oluble
Analysis Batch: 93566													
	Sample	Sample	Spike		MSD	MSD					%Rec		RPD
Analyte	Result	Qualifier	Added	R	esult	Qualifier	Unit		0	%Rec	Limits	RPD	Limit
Chloride	473	F1	251	6	677.2	F1	mg/Kg		_	81	90 - 110	0	20
QC Association Summary

Client: Crain Environmental Project/Site: Lea 407

GC Semi VOA

Prep Batch: 93520

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
880-49899-1	DS-13 (4.3')	Total/NA	Solid	8015NM Prep	
880-49899-2	DS-14 (4.3')	Total/NA	Solid	8015NM Prep	
MB 880-93520/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-93520/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-93520/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
Analysis Batch: 93537					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49899-1	DS-13 (4.3')	Total/NA	Solid	8015B NM	93520
880-49899-2	DS-14 (4.3')	Total/NA	Solid	8015B NM	93520
MB 880-93520/1-A	Method Blank	Total/NA	Solid	8015B NM	93520
LCS 880-93520/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	93520
LCSD 880-93520/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	93520
Analysis Batch: 93659					
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
880-49899-1	DS-13 (4.3')	Total/NA	Solid	8015 NM	
880-49899-2	DS-14 (4.3')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 93508

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method Prep Batch
880-49899-1	DS-13 (4.3')	Soluble	Solid	DI Leach
MB 880-93508/1-A	Method Blank	Soluble	Solid	DI Leach
LCS 880-93508/2-A	Lab Control Sample	Soluble	Solid	DI Leach
LCSD 880-93508/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach

Analysis Batch: 93519

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49899-1	DS-13 (4.3')	Soluble	Solid	300.0	93508
MB 880-93508/1-A	Method Blank	Soluble	Solid	300.0	93508
LCS 880-93508/2-A	Lab Control Sample	Soluble	Solid	300.0	93508
LCSD 880-93508/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	93508

Leach Batch: 93553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49899-2	DS-14 (4.3')	Soluble	Solid	DI Leach	
MB 880-93553/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-93553/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-93553/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-49899-2 MS	DS-14 (4.3')	Soluble	Solid	DI Leach	
880-49899-2 MSD	DS-14 (4.3')	Soluble	Solid	DI Leach	

Analysis Batch: 93566

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
880-49899-2	DS-14 (4.3')	Soluble	Solid	300.0	93553
MB 880-93553/1-A	Method Blank	Soluble	Solid	300.0	93553
LCS 880-93553/2-A	Lab Control Sample	Soluble	Solid	300.0	93553
LCSD 880-93553/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	93553
880-49899-2 MS	DS-14 (4.3')	Soluble	Solid	300.0	93553

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Job ID: 880-49899-1

SDG: Lea Co., NM

QC Association Summary

Client: Crain Environmental	Job ID: 880-49899-1
Project/Site: Lea 407	SDG: Lea Co., NM

HPLC/IC (Continued)

Analysis Batch: 93566 (Continued)

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch	
880-49899-2 MSD	DS-14 (4.3')	Soluble	Solid	300.0	93553	

Eurofins Midland

Client: Crain Environmental Project/Site: Lea 407

Client Sample ID: DS-13 (4.3') Date Collected: 10/15/24 13:20

Date Received: 10/16/24 16:36

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			93659	10/17/24 14:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	93520	10/17/24 09:02	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93537	10/17/24 14:45	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	93508	10/17/24 07:50	SA	EET MID
Soluble	Analysis	300.0		1			93519	10/17/24 14:16	СН	EET MID

Client Sample ID: DS-14 (4.3') Date Collected: 10/15/24 13:30 Date Received: 10/16/24 16:36

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			93659	10/17/24 15:00	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	93520	10/17/24 09:02	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93537	10/17/24 15:00	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	93553	10/17/24 13:06	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	93566	10/17/24 19:46	CH	EET MID

Laboratory References:

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

Job ID: 880-49899-1 SDG: Lea Co., NM

Lab Sample ID: 880-49899-1

Lab Sample ID: 880-49899-2

Matrix: Solid

Matrix: Solid

Eurofins Midland

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Client: Crain Environmental Project/Site: Lea 407

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

ority	Program	Identification Number	Expiration Date
IS	NELAP	T104704400	06-30-25
0,	s are included in this report, but the laboratory i does not offer certification.	s not certified by the governing authority. This	list may include analyte
0,		not certified by the governing authority. This Analyte	list may include analyte

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Job ID: 880-49899-1 SDG: Lea Co., NM

Method Summary

Client: Crain Environmental Project/Site: Lea 407

Job ID: 880-49899-1 SDG: Lea Co., NM

Method	Method Description	Protocol	Laboratory	
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID	
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID	
300.0	Anions, Ion Chromatography	EPA	EET MID	
3015NM Prep	Microextraction	SW846	EET MID	
OI Leach	Deionized Water Leaching Procedure	ASTM	EET MID	
Protocol Refe				
	STM International			
	Environmental Protection Agency			
SW846 = '	'Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third E	dition, November 1986 And Its Updates.		
Laboratory R	eferences:			
EET MID :	= Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-544	0		

Protocol References:

Laboratory References:

Eurofins Midland

Sample Summary

Client: Crain Environmental Project/Site: Lea 407 Job ID: 880-49899-1 SDG: Lea Co., NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-49899-1	DS-13 (4.3')	Solid	10/15/24 13:20	10/16/24 16:36	4.3'
880-49899-2	DS-14 (4.3')	Solid	10/15/24 13:30	10/16/24 16:36	4.3'

880-49899 Chain of Custody	•	elds RRC Superfund		PST/UST TRRP Level IV	Other:	Preservative Codes	None: NO DI Water: H ₂ O	HCL:HC HNO;HN H204:H2 NaOH:Na H304:HP NaHS04:NaS03 Zn Acetate-NaOH: Zn NaOH+Ascorbic Acid: SAPC Sample Comments T Sn U V Zn 71 Sn U V Zn 7470 / 7471		Date/Time	Revised Date: 08/25/2020 Rev. 2020.2
Work O 880-4989	Work Order Comments	Program: UST/PST PRP Brownfields	oject: NN	Reporting: Level II 🗌 Level III 🗍 PST/	Deliverables: EDD ADaPT		NG	di K Se Ag SiO ₂ Na Sr Hg: 1631/245.1/	conuco isly negodiated.	Received by: (Signature)	
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	Ruan Swift	Farky Acres	11757 Katy Frwy St. 725 Sta	92027	yard horeagus.com	ANALYSIS REQUEST		Sampler: Name: Tany that Transition Sompler: Name: Tany that Transition Transition Sompler: Name: Tany that Transition Transition Sample: Received intext: Tany to increation factor: Transition Transition Sample identification Matrix Date Time Sample identification Sample identification Matrix Date Time Sample identification DS-13 (4,3:3) S U)15241 13:30 4):3' C 1 DS-14 (4,3:3) S U)15241 13:30 4):3' C 1 DS-14 (4,3:3) S U)15241 13:30 4):3' C 1 DS-13 (4,4:3) S U)15241 13:30 4):3' C 1 DS-14 (4,5:3) S U)15241 13:30 4):3' C 1 DS-14 (4,5:3) S U)15241 13:30 4):3' C	or served, exomination where here only for the cost of samples and share of store any tesponsoning for any toxics or expension in a contract of the cost of samples and the cost of sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotisted	Date/Time Relinquished by: (Signature)	
	Bill to: (if different)	Company Name:	Address:	City, State ZIP:	Email: Cimp. CminPam	Turn Around	Koutine Rush Code	TAT starts the day received by 4.30pm Wet Ice: Vel Wet Ice: Vel Wet Ice: Vel If received by 4.30pm eter ID: T_A If emperature: I If emperature: I If emperature: I If applied Depth If applied J.3' If applied J.3' If applied J.3' If applied I If applied J.3' If applied I If applied J.3' If applied I If applied J.3'	ume any responsionity for each sample submitted to Eur	10 IN	-
Curofins Environment Testing Xenco	Cindy Crain	(rain Chrimmental	225 C. JTH SI.	[blessa, TX 7976]	(575) 441. 7244	Lea 407		Sampler's Name: Control is in the lab. if th	will be induce of \$85.00 will be applied to each project and a	Relippuished by Signature) Received by: (Signature)	

Login Sample Receipt Checklist

Client: Crain Environmental

Login Number: 49899 List Number: 1

<6mm (1/4").

Creator: Rodriguez, Leticia

Question	Answer	Comment
		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	N/A	

Job Number: 880-49899-1 SDG Number: Lea Co., NM

14





Appendix E: Photographic Documentation

APPENDIX E PHOTOGRAPHIC DOCUMENTATION WEST EUMONT UNIT 407 BATTERY



View of release area (6/14/23).



View of release area (6/14/23).



View of release area (6/14/23).



View of release area (6/14/23).



View of release area (6/14/23).



View of release point (6/14/23).

APPENDIX E PHOTOGRAPHIC DOCUMENTATION WEST EUMONT UNIT 407 BATTERY



View to W of excavation (10/15/24).



View to N of excavation (10/15/24).



View to W of excavation (10/15/24).



View to S of excavation (10/15/24).



View to E of excavation (10/15/24).



View of excavation at NE corner (10/15/24).





Appendix F: Waste Manifests

4

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:	7.24-24
Generator:	Forty Acres
Job #:	TTC# 3459
Trucking Co:	M. Mata # 46
Site Location:	WestEamont, Unitit
Total Yards/Day:	(Dea) Il Charde
Landfarm Represer	ntative: Canal Att

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:	7-14-24
Generator:	Forty Acres
Job #:	John # 3479
Trucking Co:	M. Mata H 51
Site Location:	West Eymend Mit 412
Total Yards/Day:_	ZDyderay (
Landfarm Represe	entative: Auis at

nin I

100

.

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:	7.25-24
Generator:	Porty Acres
Job #:	J+ 6 # 3429
Trucking Co:	M. Mata # 151
Site Location:	West Eunort Unit 410
Total Yards/Day:	aleas 11 40yds
Landfarm Represen	tative:
	0

Received by OCD: 11/18/2024 4:59:27 PM ISL Landfarm Inc.

Releas

PO Box 356

Page 88 of 104

5 200

alD

Hobbs, NM 88241

575-369-9730 - David Jett

575-390-7446 - Michelle Kuhn

Permit# NM-01-0023

Date:	17-30-24
Generator:	Forty Acres
Job #:	JSL # 3441
Trucking Co:	m Mata # 1
Site Location:	WEU Lea 407 Batt
Total Yards/Day:	(11ea) III Bloyds
Landfarm Represent	ative: David ptt

One of these 7/30/24 loads was taken to J&L on 7/29/24, but David wasn't there when the load was taken and the 7/29/24 load was added to this 7/30/24 ticket.

PO Box 356 Hobbs, NM 88241 575-369-9730 – David Jett 575-390-7446 – Michelle Kuhn Permit# NM-01-0023

Page 89 of 104

Date:	17.20-2	24		
Generator:	Forty	Acces	5	
Job #:	5L G	# 3.	441	
Trucking Co: M.	MATA	H	15/	
Site Location:	WEU	ila	407	BAtt
Total Yards/Day:	2004.	11		2096
Landfarm Representative:		for	fitt	

K Leni

A

12, 22,

M

J&L Landfarm Inc

PO Box 356

Hobbs, NM 88241

575-369-9730 - David Jett

575-390-7446 - Michelle Kuhn

Permit# NM-01-0023

8ª Date:__ Generator: onty Acic Job #: Trucking Co: Zydra Site Location: 18ydg Total Yards/Day: Landfarm Representative:

Page 91 of 10.

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

S. Date: Generator: Job #:__ 46 Trucking Co: Site Location: Total Yards/Day: Landfarm Representative:

236 Jacob

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: Generator: Job #:_ Trucking Co: Site Location: Total Yards/Day: Landfarm Representative:

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: Generator: _ Job #: Trucking Co:_ Site Location: Total Yards/Day: Landfarm Representative:

1

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:	10-71-24
Generator:	Forty Acres
Job #:	TOLET 3513
Trucking Co:	MATA # 46
Site Location:	West Eyment \$407
Total Yards/Day:	20ydg
Landfarm Representative:	David Jet

120 YARDS

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

Permit# NM-01-0023

Released to Imaging: 3/4/2025 1:55:48 PM

The Oil Conservation Division (OCD) has accepted the application, Application ID: 391990

OCDOnline@state.nm.us

Fri, Oct 11, 12:22 PM (4 days ago)

To whom it may concern (c/o Cindy Crain for FORTY ACRES ENERGY, LLC),

The OCD has received the submitted Notification for (Final) Sampling of a Release (C-141N), for incident ID (n#) nAPP2230057252.

The sampling event is expected to take place:

When: 10/15/2024 @ 15:50 Where: C-02-21S-35E Lot: 6 0 FNL 0 FEL (32.516528,-103.340494)

Additional Information: Samples will be collected by Cindy Crain (Crain Environmental) (575) 441-7244

Additional Instructions: GPS Coordinates to the site are: 32.516528, -103.340494

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sam another notification should be resubmitted through OCD permitting as soon as possible.

• Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediat samples not being accepted.

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department 1220 South St. Francis Drive

Santa Fe, NM 87505



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

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QUESTIONS

Action 404521

QUESTIONS				
Operator:	OGRID:			
FORTY ACRES ENERGY, LLC	371416			
11757 KATY FWY	Action Number:			
HOUSTON, TX 77079173	404521			
	Action Type:			
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)			

QUESTIONS

Prerequisites				
Incident ID (n#)	nAPP2316652967			
Incident Name	NAPP2316652967 WEST EUMONT UNIT 407 BATTERY @ 30-025-03376			
Incident Type	Produced Water Release			
Incident Status	Remediation Closure Report Received			
Incident Well	[30-025-03376] WEST EUMONT UNIT #204			

Location of Release Source

Please answer all the questions in this group.	If the questions in this group.						
Site Name	WEST EUMONT UNIT 407 BATTERY						
Date Release Discovered	06/14/2023						
Surface Owner	Private						

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: Corrosion Other (Specify) Produced Water Released: 25 BBL Recovered: 25 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

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Action 404521

QUESTIONS (continued)	
Operator:	OGRID:
FORTY ACRES ENERGY, LLC	371416
11757 KATY FWY	Action Number:
HOUSTON, TX 77079173	404521
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

...

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e	e. gas only) are to be submitted on the C-129 form.

Initial Response		
The responsible party must undertake the following actions immediately unless they could create a s	afety hazard that would result in injury.	
The source of the release has been stopped	True	
The impacted area has been secured to protect human health and the environment	True	
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True	
All free liquids and recoverable materials have been removed and managed appropriately	True	
If all the actions described above have not been undertaken, explain why Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remedi	Not answered. In a second s	
set and graph (4) of disclosion b of 15.15.25.0 Mindo the responsible party may commende international and a start and the set of th		
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: 07/16/2024	

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 (continued)

Operator:	OGRID:
FORTY ACRES ENERGY, LLC	371416
11757 KATY FWY	Action Number:
HOUSTON, TX 77079173	404521
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	Attached Document
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release an	nd the following surface areas:
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	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	Yes

Remediation Plan

appropriate district office no later than 90 days after the release discovery date.	
Yes	
ssociated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Yes	
No	
irams per kilograms.)	
2720	
4030	
2930	
0	
0	
forts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,	
09/16/2024	
10/14/2024	
11/18/2024	
2100	
160	
2100	
160	
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.	

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

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QUESTIONS, Page 3

Action 404521

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 4

Action 404521

QUESTIONS (continued)		
Operator:	OGRID:	
FORTY ACRES ENERGY, LLC	371416	
11757 KATY FWY	Action Number:	
HOUSTON, TX 77079173	404521	
	Action Type:	
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Remediation Plan (continued)

e appropriate district office no later than 90 days after the release discovery date.	
/ reduce contaminants:	
1	
Yes	
MONUMENT SITE #15 (TNM-94-58) [fAB000000056]	
Not answered.	
No	
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC which includes the anticipated timelines for beginning and completing the remediation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Name: Cindy Crain Email: cindy.crain@gmail.com Date: 07/16/2024	

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

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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 5

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Action 404521

QUESTIONS (continued)	
Operator:	OGRID:
FORTY ACRES ENERGY, LLC	371416
11757 KATY FWY	Action Number:
HOUSTON, TX 77079173	404521
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of	
Requesting a deferral of the remediation closure due date with the approval of this submission	Νο

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

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QUESTIONS, Page 6

Action 404521

 QUESTIONS (continued)

 Operator:
 OGRID:

 FORTY ACRES ENERGY, LLC
 371416

 11757 KATY FWY
 Action Number:

 HOUSTON, TX 77079173
 404521

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

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	376977
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/27/2024
What was the (estimated) number of samples that were to be gathered	12
What was the sampling surface area in square feet	5600

Remediation Closure Request

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	2100
What was the total volume (cubic yards) remediated	356
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	2100
What was the total volume (in cubic yards) reclaimed	356
Summarize any additional remediation activities not included by answers (above)	Sample notification was provided on 10/11/24 for samples collected on 10/15/24. A copy of the notification is provided in the attachments. The excavation will be backfilled upon approval of this Closure Report.
	closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents o
o report and/or file certain release notifications and perform corrective actions for relea ne OCD does not relieve the operator of liability should their operations have failed to a rater, human health or the environment. In addition, OCD acceptance of a C-141 repor	knowledge and understand that pursuant to OCD rules and regulations all operators are required isses which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or ially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed pre-actificate the OCD when sedemeticing and re-vegetate the unrestories are accepted.

	Name: Cindy Crain
I hereby agree and sign off to the above statement	Email: cindy.crain@gmail.com
	Date: 11/18/2024

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 (continued)

Operator:	OGRID:
FORTY ACRES ENERGY, LLC	371416
11757 KATY FWY	Action Number:
HOUSTON, TX 77079173	404521
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

····,

QUESTIONS, Page 7

Action 404521

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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

CONDITIONS

Operator:	OGRID:
FORTY ACRES ENERGY, LLC	371416
11757 KATY FWY	Action Number:
HOUSTON, TX 77079173	404521
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By		Condition Date
nvelez	None	3/4/2025

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Action 404521