

# Site Characterization Report and Remediation Workplan

August 1, 2024

RR Bell Battery API No. 30-025-04401 Incident No. nAPP2405454076 Lea County, New Mexico

#### **Prepared For:**

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

#### Prepared By:

Crain Environmental 2925 East 17<sup>th</sup> Street Odessa, Texas 79761

Cynthia K. Crain, P.G.



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#### 1.0 Introduction

Crain Environmental (CE), on behalf of Forty Acres Energy, LLC (FAE), has prepared this *Site Characterization Report and Remediation Workplan* for the crude oil release at RR Bell 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 point are 32.531414, -103.348655. 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 September 28, 2023, a release was discovered at a flow line located within the RR Bell Battery. As a result of corrosion of the flow line, approximately 5 barrels (bbls) of crude oil were released. Immediately following the release, the area was secured, and the flow line was repaired. The released fluid flowed on the ground within the Battery, and surface impacts covered approximately 3,000 square feet. No free-standing fluid was 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 February 23, 2024, and Incident #nAPP2405454076 was assigned. An Initial Form C-141 (Release Notification Report) was approved on March 7, 2024. Appendix A provides a copy of the NOR with release calculations and a C-141.

This Site Characterization Report and Remediation Workplan has been prepared prior to the due date of August 2, 2024, in accordance with 19.15.29.11 New Mexico Administrative Code (NMAC). Appendix B provides a copy of the NMOCD correspondence.

#### 3.0 NMOCD Closure Criteria

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

- Within 300 feet of any continuously flowing watercourse or any other significant watercourse.
- Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary highwater mark).
- Within 300 feet from an occupied permanent residence, school, hospital, institution or church.
- Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes.
- Within 1,000 feet of any fresh water well or spring.



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

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

#### 3.1 Groundwater Evaluation

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

#### 3.2 Surface Features and Other Development

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

- Within 300 feet of any continuously flowing watercourse or any other significant watercourse.
  - No continuously flowing watercourses (rivers, streams, arroyos, etc.) are apparent within 300 feet of the Site in the topographic map (Figure 1).
- Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary highwater mark).
  - The topographic map (Figure 1) indicates there is not a lakebed, sinkhole or playa lake located within 200 feet of the Site.
- Within 300 feet from an occupied permanent residence, school, hospital, institution or church.
  - The Site Location Map (Figure 1) and information available from the Lea County, New Mexico Central Appraisal District do not show or list any permanent residence, school, hospital, institution or church located within 300 feet of the Site.
- Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes.
  - No wells or springs located within 500 feet of the Site appear in any of the NMOSE records reviewed by CE.
- Within 1,000 feet of any fresh water well or spring.
  - No freshwater wells or springs located within 1,000 feet of the Site appear in any of the records reviewed by CE.
- Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to Section 3-27-3 NMSA 1978 as amended.



- Based on the property and other records review by CE, the Site is not located in incorporated municipal boundaries or within a defined municipal fresh water well field.
- Within the area overlying a subsurface mine.
  - Based on the property and other records reviewed by CE, the Site is not located within an area overlying a subsurface mine.

#### 3.3 Wetlands, Floodplain, and Karst Geology

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

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

The Closure Criteria applicable to the Site will be based on the estimated depth to groundwater, which dictates the most stringent regulatory guidelines typically associated with groundwater depths of less than fifty (50) feet below ground surface (bgs). A summary of the Closure Criteria is provided in the table below and in Table 1.

#### **NMOCD Closure Criteria**

		Closure Criteria Based on Depth to Groundwater (mg/l			
Consti	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 BTE	(EPA 8021 or 8260)	50	50	50	
Benzene	(EPA 8021 or 8260)	10	10	10	

Notes: NA = not applicable

bgs = below ground surface mg/kg = milligrams per kilogram GRO = gasoline range organics DRO = diesel range organics MRO = motor oil range organics TPH = total petroleum hydrocarbons

BTEX = benzene, toluene, ethylbenzene, and total xylenes Green highlighted cells denote applicable Closure Criteria.



#### 4.0 Site Assessment/Characterization Results

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

#### 4.1 Site Map

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

#### 4.2 Depth to Groundwater

As discussed in Section 3.1, the exact depth to groundwater beneath the Site is unknown. During investigation activities, a maximum depth of 7 feet bgs was reached, at which groundwater was not encountered.

#### 4.3 Wellhead Protection Area

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

#### 4.4 Distance to Nearest Significant Watercourse

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

#### 4.5 Summary of Soil Investigation

All visibly impacted soil was removed from the Site and hauled to disposal at J&L Landfarm, Inc. (J&L). On May 2, 2024, soil samples (S-1 through S-5) were collected throughout the release area. Soil samples were placed in clean glass sample jars, properly labeled, immediately placed on ice and hand delivered to Eurofins Environmental Testing (Eurofins) in Midland, Texas under proper chain-of-custody control. All samples were analyzed for total petroleum hydrocarbons (TPH) by Environmental Protection Agency (EPA) SW-846 Method 8015 Modified, for benzene, toluene, ethylbenzene and xylenes (collectively referred to as BTEX) by EPA SW-846 Method 8021B, and for chlorides by EPA Method 300.

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

Referring to Table 1, concentrations of BTEX were reported below the test method detection limits or Closure Criteria in all samples. Concentrations of TPH exceeded the Closure Criteria in each sample (S-1 through S-5) at concentrations of 594 mg/kg, 2,710 mg/kg, 1,330 mg/kg, 395 mg/kg, and 110 mg/kg (respectively). Concentrations of chlorides exceeded the Closure Criteria in sample S-2 (3,700 mg/kg).



On July 25, 2024, soil samples were collected at S-1, S-2, and S-7 to determine the vertical limits of impact. The soil samples were delivered to Eurofins for analysis of TPH and chlorides. Table 1 provides a summary of the laboratory results, and sample locations are provided on Figure 2. The laboratory report and chain-of-custody documentation is provided in Appendix C. Photographic documentation is provided in Appendix D.

Referring to Table 1, vertical delineation was achieved at sample point S-1 and S-2, and chloride concentrations were only reported above the Closure Criteria in sample S-2 at depths of 2' bgs (3,700 mg/kg) and 5' bgs (695 mg/kg).

Soils with TPH and chloride exceedances will be addressed in accordance with the Proposed Remediation Workplan discussed in Section 5.0.

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

Data reported in Job Numbers 880-43052-1 and 880-46538-1 generated by Eurofins in Midland, Texas, was reviewed to ensure that reported analytical results met data quality objectives. It was determined by quality control data associated with analytical results that reported concentrations of target analytes are defensible and that measurement data reliability is within the expected limits of sampling and analytical error. All analytical results are usable for characterization of soil at the Site. The laboratory analytical results are provided as Appendix C.

#### 5.0 Proposed Remediation Workplan

Benzene and BTEX concentrations were reported below the test method detection or Closure Criteria limits in all samples. Concentrations of TPH were reported above the Closure Criteria in six samples (S-1 through S-5 and S-7). Concentrations of chlorides were reported above the Closure Criteria in one sample (S-2 [2' and 5']).

FAE proposes to continue excavation until confirmation samples collected from the bottom and sidewalls of the excavation report TPH and chloride concentrations below the NMOCD Closure Criteria. As initial BTEX concentrations were below the test method detection limits, each confirmation sample will be analyzed only for TPH and chlorides. Pursuant to 19.15.29.12(D) NMAC, confirmation samples will consist of five-point composite samples, and discrete grab samples will be collected from any wet or discolored areas. The excavated material will be transported under manifest to a NMOCD approved disposal facility.

FAE requests a deferral of remediation below the storage tanks, heater treater, and additional ancillary equipment until time of abandonment of the Battery. FAE will make every effort to remove as much impacted soil as is practical without diminishing the integrity of soil beneath existing equipment.

Upon receipt of laboratory results that all TPH and chloride concentrations are below the Closure Criteria, the excavation will be backfilled to grade with non-impacted similar material obtained from a landowner pit. Pursuant to 19.15.29.13 NMAC, the 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.

RR Bell Battery Crude Oil Release Site Characterization Report and Remediation Workplan



FAE respectfully requests a remediation schedule of 90 days from the date of NMOCD approval of this Remediation Workplan to complete the proposed remediation activities and submit a *Remediation Summary and Closure Report* for NMOCD approval. The closure report will summarize remedial activities and confirmation sampling results and will include the final Form C-141.

#### 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 RR Bell Tank Battery (30-025-04401) NMOCD INCIDENT # nAPP2405454076

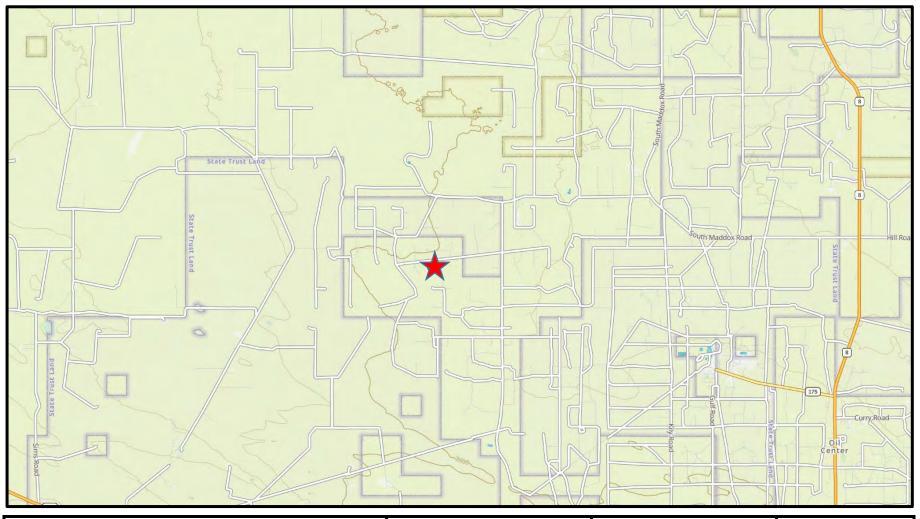
Sample ID	Sample Date	Sample Depth	Soil Status	TPH (GRO)	TPH (DRO)	TPH (MRO)	Total TPH	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	Chloride
	Date	Deptil			milligrams per kilogram (mg/kg)								
NMO	CD Closure C	Criteria					100	10	-	-	-	50	600
State Land 76 #001 - 30-0	25-00376 - W	Vell Pad											
S-1 (1')	05/02/24	1'	In Situ	<49.8	594	<49.8	594	< 0.00199	< 0.00199	< 0.00199	0.00648	0.00648	299
S-1 (2')	07/25/24	2'	In Situ	<49.9	<49.9	<49.9	<49.9				-		
S-1 (3')	07/25/24	3'	In Situ	<50.0	<50.0	<50.0	<50.0		-		-		
S-2 (2')	05/02/24	2'	In Situ	<50.5	2,710	<50.5	2,710	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	3,700
S-2 (3')	07/25/24	3'	In Situ	1,100	5,730	<49.8	6,830						342
S-2 (5')	07/25/24	5'	In Situ	<49.8	<49.8	<49.8	<49.8						695
S-2 (7')	07/25/24	7'	In Situ	<49.7	<49.7	<49.7	<49.7						377
S-3 (1-2')	05/02/24	1-2'	In Situ	<49.7	1,330	<49.7	1,330	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	197
S-4 (1')	05/02/24	1'	In Situ	<49.9	395	<49.9	395	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	11.6
S-5 (1-2')	05/02/24	1-2'	In Situ	<50.0	110	<50.0	110	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	9.44
S-7 (1')	07/25/24	1'	In Situ	<49.8	1,520	<49.8	1,520						12.3 F1
S-7 (3')	07/25/24	3'	In Situ	139	943	<49.6	1,080						50.8
S-7 (4')	07/25/24	4'	In Situ	<50.0	406	<50.0	406						57.7

#### Notes

- 1. GRO: Gasoline Range Organics
- 2. DRO: Diesel Range Organics
- 3. MRO: Motor Oil Range Organics
- 4. -: No NMOCD Closure Criteria established.
- 5. bgs: Below Ground Surface
- 6. Bold indicates the COC was above the appropriate laboratory method/sample detection limit.
- 7. < indicates the COC was below the appropriate laboratory method/sample detection limit.
- 8. Bold and yellow highlighting indicates the COC was above the appropriate NMOCD Closure Criteria.
- 9. F1: MS and/or MSD recovery exceeds control limits.
- 10. --: Sample not analyzed for the specific constituent.



# **FIGURES**





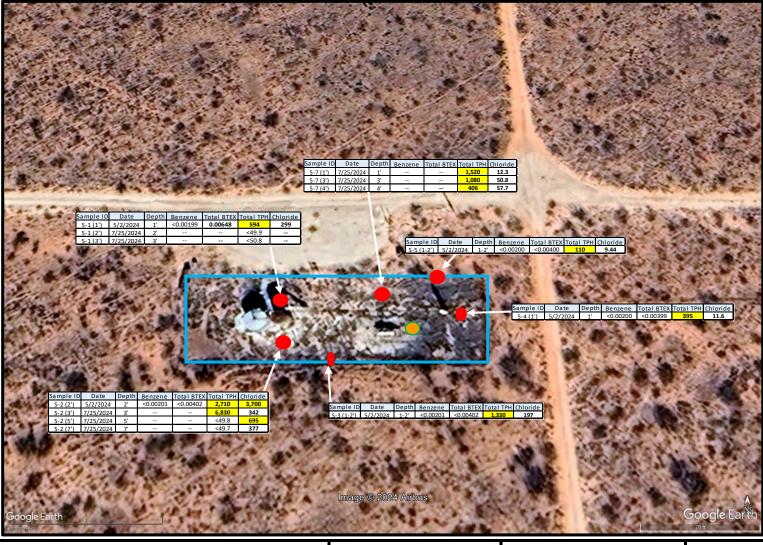
# Figure 1 Site Location Map

Forty Acres Energy, LLC RR Bell Tank Battery Lea County, New Mexico Drafted by: CC | Checked by: CC

Draft: August 1, 2024

GPS: 32.531414° -103.348655°





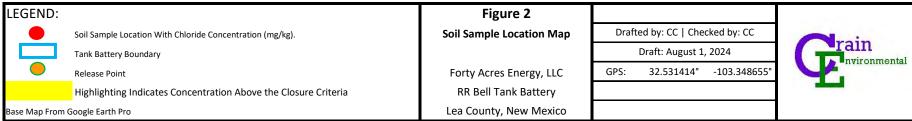






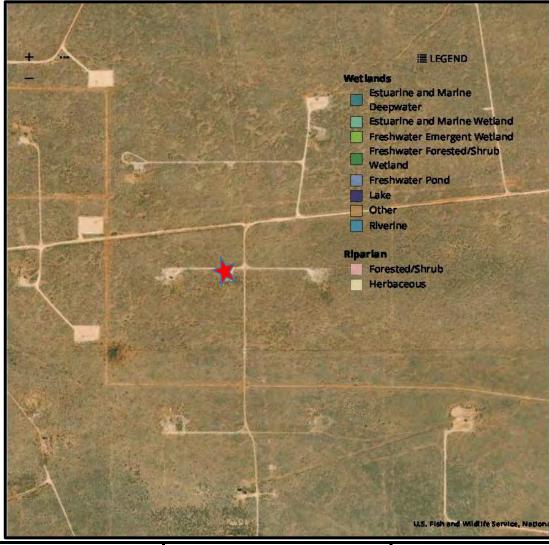
Figure 3
Wellhead Protection Area Map

Forty Acres Energy, LLC RR Bell Tank Battery Lea County, New Mexico Drafted by: CC | Checked by: CC

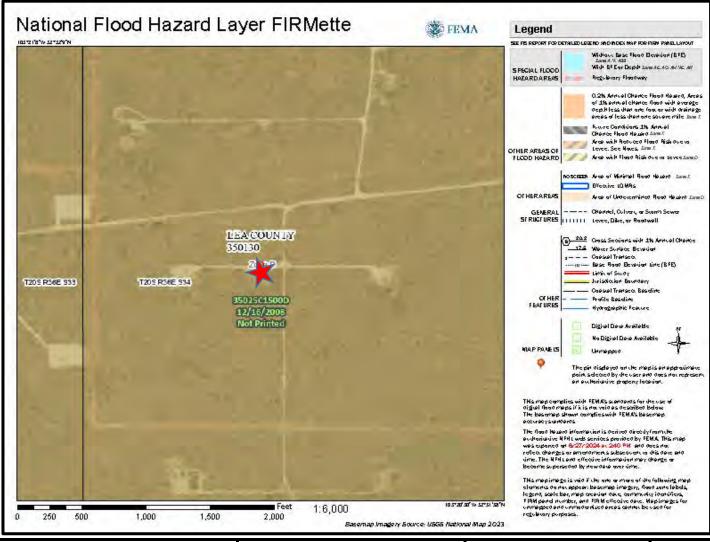
Draft: August 1, 2024

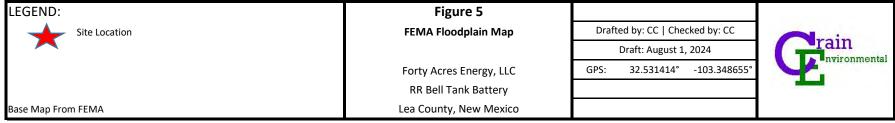
GPS: 32.531414° -103.348655'

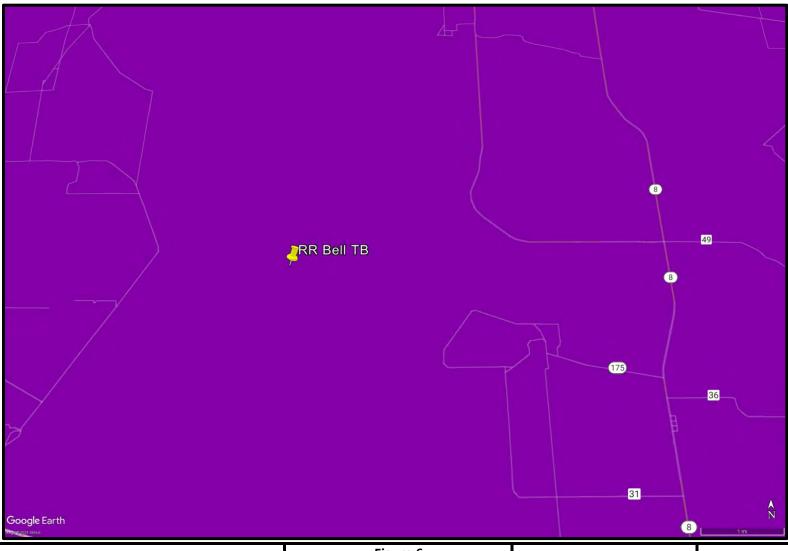


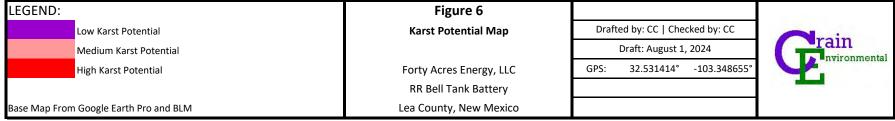














Appendix A: Release Notification and Corrective Action Form (NMOCD Form C-141)

#### **Released Volume Calculation**

Length		10 feet
Width		10 feet
Thickness		2 in
	Gals	Bbls

200 4.761905 Est. Total Bbls Released

Volume = L\*W\*T

Total Released Volume = 200 gallons (US, dry)

4.76 bbls

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

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

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

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

QUESTIONS

Action 321235

#### **QUESTIONS**

ı	Operator:	OGRID:
	FORTY ACRES ENERGY, LLC	371416
ı	11757 KATY FWY	Action Number:
ı	HOUSTON, TX 77079173	321235
ı		Action Type:
ı		[C-141] Initial C-141 (C-141-v-Initial)

#### QUESTIONS

Prerequisites Preservation		
Incident ID (n#)	nAPP2405454076	
Incident Name	NAPP2405454076 R R BELL BATTERY @ 30-025-04401	
Incident Type	Oil Release	
Incident Status	Initial C-141 Received	
Incident Well	[30-025-04401] WEST EUMONT UNIT #405	

Location of Release Source				
Please answer all the questions in this group.				
Site Name	R R Bell Battery			
Date Release Discovered	09/28/2023			
Surface Owner	Private			

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

lature and Volume of Release	
laterial(s) released, please answer all that apply below. Any calculations or specific justifications f	or the volumes provided should be attached to the follow-up C-141 submission.
Crude Oil Released (bbls) Details	Cause: Normal Operations   Flow Line - Production   Crude Oil   Released: 5 BBL   Recovered: 0 BBL   Lost: 5 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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

QUESTIONS, Page 2

Action 321235

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462	11 E, NIVI 07 303
QUESTI	ONS (continued)
Operator: FORTY ACRES ENERGY, LLC 11757 KATY FWY HOUSTON, TX 77079173	OGRID:
QUESTIONS	[6]
Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	More info needed to determine if this will be treated as a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
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	rafety hazard that would result in injury.
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.
	I ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for releathe OCD does not relieve the operator of liability should their operations have failed to a	knowledge and understand that pursuant to OCD rules and regulations all operators are required ases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: Alexis Bolanos Title: Production & Regulatory Analyst Email: alex@faenergyus.com Date: 03/07/2024

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

QUESTIONS, Page 3

Action 321235

**QUESTIONS** (continued)

Operator:	OGRID:
FORTY ACRES ENERGY, LLC	371416
11757 KATY FWY	Action Number:
HOUSTON, TX 77079173	321235
	Action Type:
	[C-141] Initial C-141 (C-141-v-Initial)

# QUESTIONS

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

Remediation Plan		
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
Requesting a remediation plan approval with this submission No		
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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1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 321235

#### CONDITIONS

Operator:	OGRID:	
FORTY ACRES ENERGY, LLC	371416	
11757 KATY FWY	Action Number:	
HOUSTON, TX 77079173	321235	
	Action Type:	
	[C-141] Initial C-141 (C-141-v-Initial)	

#### CONDITIONS

Created By	y Condition	Condition Date
scwells	None	3/7/2024

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

State of New Mexico Energy Minerals and Natural Resources Department

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

Incident ID	nAPP2405454076
District RP	
Facility ID	
Application ID	

# **Release Notification**

# **Responsible Party**

Responsible Party Forty Acres Energy, LLC		OGRID	371416		
Contact Name Alex Bolanos		Contact To	Γelephone (832) 689-3788		
Contact email alex@faenergyus.com			Incident #	# (assigned by OCD) nAPP2405454076	
Contact mailing add	dress 11757 Katy Fy	y, Houston, TX 7	7079173	33.55.5 00.00	
	11757 Katy 1 v	7 y, 110uston, 174 7	7077173		
		Location	of Release So	Source	
Latitude 32.5	531414		Longitude	-103.348655	
Datitude		(NAD 83 in dec	cimal degrees to 5 decin		
Site Name RF	R Bell Battery		Site Type	Battery	
Date Release Discov			API# (if app	oplicable) 30-025-04401	
	_				
Unit Letter Sect	ion Township	Range	Cour	ınty	
E 3	34 20S 36E Lea		Lea		
S C	Y. A. D. E. 1 1. D. T.	1.1 V D	7		
Surface Owner: S	State  Federal  Ti	nbai 🔼 Private (N	vame:	)	
		Nature and	l Volume of l	Release	
	Natamial(a) Palangad (Salanta)	Il that amply and attach	aalaulatiama amamaifia	is justification for the volumes marrided below)	
X Crude Oil	Volume Release		calculations of specific	Volume Recovered (bbls)	
Produced Water	Volume Release			Volume Recovered (bbls)	
	Is the concentrate	tion of dissolved cl	hloride in the	☐ Yes ☐ No	
	produced water				
Condensate	densate Volume Released (bbls)			Volume Recovered (bbls)	
☐ Natural Gas Volume Released (Mcf)			Volume Recovered (Mcf)		
Other (describe) Volume/Weight Released (provide units)		units)	Volume/Weight Recovered (provide units)		
Cause of Release					
	Flow line release				

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Incident ID	nAPP2405454076
District RP	
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Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the respo	nsible party consider this a major release?
Yes X No		
If YES, was immediate no	otice given to the OCD? By whom? To w	nom? When and by what means (phone, email, etc)?
	Yes. James Martinez to Mike Bratch	er on 9/28/23
	Initial R	esponse
The responsible	party must undertake the following actions immediate	ly unless they could create a safety hazard that would result in injury
X The source of the rele	ease has been stopped.	
X The impacted area ha	s been secured to protect human health and	the environment.
X Released materials ha	ave been contained via the use of berms or	dikes, absorbent pads, or other containment devices.
X All free liquids and re	ecoverable materials have been removed an	d managed appropriately.
If all the actions described	d above have <u>not</u> been undertaken, explain	why:
has begun, please attach	a narrative of actions to date. If remedial	emediation immediately after discovery of a release. If remediation efforts have been successfully completed or if the release occurred please attach all information needed for closure evaluation.
		best of my knowledge and understand that pursuant to OCD rules and
		fications and perform corrective actions for releases which may endanger DCD does not relieve the operator of liability should their operations have
failed to adequately investig	ate and remediate contamination that pose a three	eat to groundwater, surface water, human health or the environment. In responsibility for compliance with any other federal, state, or local laws
and/or regulations.	ra C-141 report does not reneve the operator of	responsibility for compliance with any other rederal, state, or local laws
Printed Name: Cindy Crai	<del>/</del>	Title: Agent for Forty Acres Energy, LLC
Signature:	indy crain	Date: 8/1/24
email: cindy.crain@g	0.	Telephone: (575) 441-7244
Cinan. Cinay.ciani(a)s	<u>çınımı.com</u>	Теюрионе. <u>(373) тт1-72-т-</u>
OCD Only		
-		
Received by:		Date:

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Incident ID nAPP2405454076 District RP Facility ID Application ID

## **Site Assessment/Characterization**

This information must be provided to the appropriate district office no tales man 20 days after the release discovery date.		
What is the shallowest depth to groundwater beneath the area affected by the release?	<u>&gt;50</u> (ft bgs)	
Did this release impact groundwater or surface water?	☐ Yes X No	
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes X No	
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	Yes X No	
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	Yes X No	
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	Yes X No	
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	Yes X No	
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	Yes X No	
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes X No	
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes X No	
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes X No	
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes X No	
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	Yes X No	
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.		

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

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

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Incident ID	nAPP2405454076
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I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.			
Printed Name: Cindy Crain	Title: Agent for Forty Acres Energy, LLC		
Signature:	Date: <u>08/01/2024</u>		
email: cindy.crain@gmail.com	Telephone: (575) 441-7244		
OCD Only			
Received by:	Date:		

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Incident ID nAPP2405454076

District RP
Facility ID
Application ID

# **Remediation Plan**

Remediation Plan Checklist: Each of the following items must be included in the plan.				
Detailed description of proposed remediation technique  Scaled sitemap with GPS coordinates showing delineation points  Estimated volume of material to be remediated  Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC  Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)				
Deferral Requests Only: Each of the following items must be confin	rmed 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, t	he environment, or groundwater.			
I hereby certify that the information given above is true and complete rules and regulations all operators are required to report and/or file cer which may endanger public health or the environment. The acceptanc liability should their operations have failed to adequately investigate as surface water, human health or the environment. In addition, OCD acc responsibility for compliance with any other federal, state, or local law	tain release notifications and perform corrective actions for releases e of a C-141 report by the OCD does not relieve the operator of and remediate contamination that pose a threat to groundwater, ceptance of a C-141 report does not relieve the operator of			
Printed Name: Cindy Crain	Title: Agent for Forty Acres Energy, LLC			
Signature:	Date: 8/1/24			
email: <u>cindy.crain@gmail.com</u>	Telephone: (575) 441-7244			
OCD Only				
Received by:	Date:			
☐ Approved ☐ Approved with Attached Conditions of Approved	pproval			
Signature: De	ate:			



**Appendix B: NMOCD Correspondence** 



Cindy Crain <cindy.crain@gmail.com>

# FW: [EXTERNAL] Forty Acres Energy C-141 Extension Request

1 message

**Ryan Swift** <ryan@faenergyus.com>
To: Cindy Crain <cindy.crain@gmail.com>

Wed, Jul 3, 2024 at 9:06 AM

From: Alex Bolanos <alex@faenergyus.com>

**Sent:** Wednesday, July 3, 2024 8:49 AM **To:** Ryan Swift < ryan@faenergyus.com>

Subject: RE: [EXTERNAL] Forty Acres Energy C-141 Extension Request

FYI

From: Velez, Nelson, EMNRD < Nelson. Velez@emnrd.nm.gov>

Sent: Tuesday, July 2, 2024 3:11 PM

To: Alex Bolanos <alex@faenergyus.com>

**Cc:** Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov> **Subject:** Re: [EXTERNAL] Forty Acres Energy C-141 Extension Request

Hi Alex,

Thanks for the correspondence. The following table shows the approved extension dates.

Incident Number	Location	Remed. Due
nAPP2405454076	West Eumont Unit #405-RR BELL	08/02/2024
nAPP2404472013	West Eumont Unit #410	08/30/2024
nAPP2404471333	West Eumont Unit #210	10/07/2024

Please keep a copy of this communication for inclusion within the appropriate report submittal.

Regards,

Nelson Velez • Environmental Specialist - Adv

Environmental Bureau | EMNRD - Oil Conservation Division

1000 Rio Brazos Road | Aztec, NM 87410

(505) 469-6146 | nelson.velez@emnrd.nm.gov

http://www.emnrd.nm.gov/ocd





**Appendix C: Laboratory Reports and Chain-of-Custody Documentation** 

**Environment Testing** 

# **ANALYTICAL REPORT**

# PREPARED FOR

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

Generated 5/7/2024 1:49:35 PM

# **JOB DESCRIPTION**

RR Bell TB Lea Co., NM

# **JOB NUMBER**

880-43052-1

Eurofins Midland 1211 W. Florida Ave Midland TX 79701

# **Eurofins Midland**

### **Job Notes**

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

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

# **Authorization**

Generated 5/7/2024 1:49:35 PM

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

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Client: Crain Environmental
Project/Site: RR Bell TB
Laboratory Job ID: 880-43052-1
SDG: Lea Co., NM

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#### **Definitions/Glossary**

Client: Crain Environmental

Project/Site: RR Bell TB

Job ID: 880-43052-1

SDG: Lea Co., NM

#### Qualifiers

U

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.

Indicates the analyte was analyzed for but not detected.

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#### GC Semi VOA

 Qualifier
 Qualifier Description

 U
 Indicates the analyte was analyzed for but not detected.

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#### HPLC/IC

Qualifier Description

Indicates the analyte was analyzed for but not detected.

#### **Glossary**

Abbreviation These commonly used abbreviations may or may not be present in this report. Listed under the "D" column to designate that the result is reported on a dry weight basis %R Percent Recovery CFL Contains Free Liquid CFU Colony Forming Unit **CNF** Contains No Free Liquid DFR 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

Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present
POI Practical Quantitation

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

Eurofins Midland

#### **Case Narrative**

Client: Crain Environmental

Job ID: 880-43052-1

Project: RR Bell TB

Job ID: 880-43052-1

**Eurofins Midland** 

#### Job Narrative 880-43052-1

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 are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample 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 5/3/2024 2:16 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 5.2°C.

#### **Receipt Exceptions**

The following samples were received and analyzed from an unpreserved bulk soil jar: S-1 (1') (880-43052-1), S-2 (2') (880-43052-2), S-3 (1-2') (880-43052-3), S-4 (1') (880-43052-4) and S-5 (1-2') (880-43052-5).

#### **GC VOA**

Method 8021B: Surrogate recovery for the following sample was outside control limits: (LCS 880-79944/1-A). Evidence of matrix interferences is not obvious.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-79896 recovered above the upper control limit for o-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-79896/2).

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-79944 and analytical batch 880-79896 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.

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

#### GC Semi VOA

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

#### HPLC/IC

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

**Eurofins Midland** 

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Client: Crain Environmental

Matrix: Solid

Job ID: 880-43052-1 SDG: Lea Co., NM

Project/Site: RR Bell TB SDG: Lea Co., NM

Client Sample ID: S-1 (1')

Lab Sample ID: 880-43052-1

Date Collected: 05/02/24 11:30
Date Received: 05/03/24 14:16

Sample Depth: 1'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *1 *+	0.00199		mg/Kg		05/03/24 15:35	05/04/24 00:31	1
Toluene	< 0.00199	U *1 *+	0.00199		mg/Kg		05/03/24 15:35	05/04/24 00:31	1
Ethylbenzene	< 0.00199	U *1 *+	0.00199		mg/Kg		05/03/24 15:35	05/04/24 00:31	1
m-Xylene & p-Xylene	0.00431	*1 *+	0.00398		mg/Kg		05/03/24 15:35	05/04/24 00:31	1
o-Xylene	0.00217	*1 *+	0.00199		mg/Kg		05/03/24 15:35	05/04/24 00:31	1
Xylenes, Total	0.00648	*1 *+	0.00398		mg/Kg		05/03/24 15:35	05/04/24 00:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				05/03/24 15:35	05/04/24 00:31	1
1,4-Difluorobenzene (Surr)	89		70 - 130				05/03/24 15:35	05/04/24 00:31	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
• ***			0.00398		mg/Kg			05/04/24 00:31	
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (						00,0 ,,_ 1 00.0 .	
Method: SW846 8015 NM - Diese Analyte		ics (DRO) (0 Qualifier		MDL		D	Prepared	Analyzed	Dil Fac
			GC)	MDL		<u>D</u>	Prepared		
Analyte	Result 594	Qualifier	GC)  RL 49.8	MDL	Unit	<u>D</u>	Prepared	Analyzed	
Analyte Total TPH	Result 594 sel Range Orga	Qualifier	GC)  RL 49.8	MDL MDL	Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed	1
Analyte Total TPH  Method: SW846 8015B NM - Dies	Result 594 sel Range Orga	Qualifier nics (DRO) Qualifier	RL 49.8 (GC)		Unit mg/Kg	_ =		Analyzed 05/03/24 21:16	1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	Result 594 sel Range Orga	Qualifier nics (DRO) Qualifier	GC)  RL  49.8  (GC)  RL		Unit mg/Kg	_ =	Prepared	Analyzed 05/03/24 21:16 Analyzed	Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result 594 sel Range Orga Result <49.8	Qualifier  nics (DRO)  Qualifier  U	(GC)  RL 49.8  (GC)  RL 49.8		Unit mg/Kg  Unit mg/Kg	_ =	Prepared 05/03/24 15:20	Analyzed 05/03/24 21:16  Analyzed 05/03/24 21:16	Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result 594 sel Range Orga Result <49.8 594	Qualifier  nics (DRO) Qualifier U	GC)  RL 49.8  (GC)  RL 49.8  49.8		Unit mg/Kg  Unit mg/Kg mg/Kg	_ =	Prepared 05/03/24 15:20 05/03/24 15:20	Analyzed 05/03/24 21:16  Analyzed 05/03/24 21:16 05/03/24 21:16	1 Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	Result 594  sel Range Orga	Qualifier  nics (DRO) Qualifier U	GC)  RL 49.8  (GC) RL 49.8  49.8  49.8		Unit mg/Kg  Unit mg/Kg mg/Kg	_ =	Prepared 05/03/24 15:20 05/03/24 15:20 05/03/24 15:20	Analyzed 05/03/24 21:16  Analyzed 05/03/24 21:16 05/03/24 21:16 05/03/24 21:16	Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)  Surrogate	Result 594  sel Range Orga Result <49.8  594  49.8  %Recovery	Qualifier  nics (DRO) Qualifier U	GC)  RL 49.8  (GC)  RL 49.8  49.8  49.8  Limits		Unit mg/Kg  Unit mg/Kg mg/Kg	_ =	Prepared 05/03/24 15:20 05/03/24 15:20 05/03/24 15:20 Prepared	Analyzed  05/03/24 21:16  Analyzed  05/03/24 21:16  05/03/24 21:16  05/03/24 21:16  Analyzed	Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane	Result	Qualifier  nics (DRO) Qualifier  U	GC)  RL 49.8  (GC)  RL 49.8  49.8  49.8  Limits 70 - 130 70 - 130		Unit mg/Kg  Unit mg/Kg mg/Kg	_ =	Prepared 05/03/24 15:20 05/03/24 15:20 05/03/24 15:20  Prepared 05/03/24 15:20	Analyzed  05/03/24 21:16  Analyzed  05/03/24 21:16  05/03/24 21:16  Analyzed  05/03/24 21:16	Dil Fac 1 1
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier  nics (DRO) Qualifier  U	GC)  RL 49.8  (GC)  RL 49.8  49.8  49.8  Limits 70 - 130 70 - 130		Unit mg/Kg  Unit mg/Kg mg/Kg mg/Kg	_ =	Prepared 05/03/24 15:20 05/03/24 15:20 05/03/24 15:20  Prepared 05/03/24 15:20	Analyzed  05/03/24 21:16  Analyzed  05/03/24 21:16  05/03/24 21:16  Analyzed  05/03/24 21:16	1 Dil Fac 1 1 1 Dil Fac 1 1

Client Sample ID: S-2 (2')

Lab Sample ID: 880-43052-2

Date Collected: 05/02/24 11:35 Date Received: 05/03/24 14:16

Sample Depth: 2'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U *1 *+	0.00201		mg/Kg		05/03/24 15:35	05/04/24 00:51	1
Toluene	<0.00201	U *1 *+	0.00201		mg/Kg		05/03/24 15:35	05/04/24 00:51	1
Ethylbenzene	<0.00201	U *1 *+	0.00201		mg/Kg		05/03/24 15:35	05/04/24 00:51	1
m-Xylene & p-Xylene	<0.00402	U *1 *+	0.00402		mg/Kg		05/03/24 15:35	05/04/24 00:51	1
o-Xylene	<0.00201	U *1 *+	0.00201		mg/Kg		05/03/24 15:35	05/04/24 00:51	1
Xylenes, Total	<0.00402	U *1 *+	0.00402		mg/Kg		05/03/24 15:35	05/04/24 00:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				05/03/24 15:35	05/04/24 00:51	1

**Eurofins Midland** 

**Matrix: Solid** 

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Client Sample ID: S-2 (2')

Lab Sample ID: 880-43052-2

Job ID: 880-43052-1

Client: Crain Environmental Project/Site: RR Bell TB SDG: Lea Co., NM

Date Collected: 05/02/24 11:35 Matrix: Solid Date Received: 05/03/24 14:16

Sample Depth: 2'

Method: SW846 8021B - Volatile	Organic Compounds	(GC) (Continued)
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Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	90	70 - 130	05/03/24 15:35	05/04/24 00:51	1

Method: TAL SOP Total BTEX	( - Total BTEX Calculation						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac

Total BTEX	<0.00402 U	0.00402	mg/Kg	05/04/24 00:51	1
– Method: SW846 8015 NM - Diesel Ran	ge Organics (DRO	) (GC)			

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	2710	50.5	mg/Kg			05/03/24 22:17	1

Method: SW846 8015B NM - Diese	Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		05/03/24 15:20	05/03/24 22:17	1
Diesel Range Organics (Over C10-C28)	2710		50.5		mg/Kg		05/03/24 15:20	05/03/24 22:17	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		05/03/24 15:20	05/03/24 22:17	1

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	106	70 _ 130	05/03/24 15:20	05/03/24 22:17	1
o-Terphenyl	110	70 - 130	05/03/24 15:20	05/03/24 22:17	1

Method: EPA 300.0 - Anions, Ion C	hromatograp	hy - Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3700		25.0		mg/Kg			05/06/24 19:56	5

Client Sample ID: S-3 (1-2') Lab Sample ID: 880-43052-3 **Matrix: Solid** 

Date Collected: 05/02/24 11:40 Date Received: 05/03/24 14:16

Sample Depth: 1-2'

Method: SW846 8021B -	<ul> <li>Volatile Organic Compound</li> </ul>	ds (GC)

Mictilod. Offoro 002 ID - Volut	ne organie comp	ounus (CC)	,						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U *1 *+	0.00201		mg/Kg		05/03/24 15:35	05/03/24 23:50	1
Toluene	<0.00201	U *1 *+	0.00201		mg/Kg		05/03/24 15:35	05/03/24 23:50	1
Ethylbenzene	<0.00201	U *1 *+	0.00201		mg/Kg		05/03/24 15:35	05/03/24 23:50	1
m-Xylene & p-Xylene	<0.00402	U *1 *+	0.00402		mg/Kg		05/03/24 15:35	05/03/24 23:50	1
o-Xylene	<0.00201	U *1 *+	0.00201		mg/Kg		05/03/24 15:35	05/03/24 23:50	1
Xylenes, Total	<0.00402	U *1 *+	0.00402		mg/Kg		05/03/24 15:35	05/03/24 23:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130				05/03/24 15:35	05/03/24 23:50	1
1 A-Diffuorobenzene (Surr)	03		70 130				05/03/24 15:35	05/03/24 23:50	1

4-Bromofluorobenzene (Surr)	118	70 - 130	05/03/24 15:35	05/03/24 23:50	1
1,4-Difluorobenzene (Surr)	93	70 - 130	05/03/24 15:35	05/03/24 23:50	1
_					

# Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			05/03/24 23:50	1

Method: SW846 8015 NM - Diesel Range	Organics	(DRO) (	GC)
Wethou. 544040 0013 NW - Dieser Kange	Organics	(DIXO) (	<b>UU</b> ,

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1330	49.7	mg/Kg			05/03/24 22:38	1

Job ID: 880-43052-1 SDG: Lea Co., NM

Client: Crain Environmental Project/Site: RR Bell TB

Lab Sample ID: 880-43052-3

Client Sample ID: S-3 (1-2') Date Collected: 05/02/24 11:40

Date Received: 05/03/24 14:16 Sample Depth: 1-2'

Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL MDL Unit Analyzed Dil Fac D Prepared <49.7 U 49.7 05/03/24 15:20 05/03/24 22:38 Gasoline Range Organics mg/Kg (GRO)-C6-C10 05/03/24 15:20 05/03/24 22:38 **Diesel Range Organics (Over** 49.7 mg/Kg 1330 C10-C28) Oil Range Organics (Over C28-C36) <49.7 U 49.7 mg/Kg 05/03/24 15:20 05/03/24 22:38 %Recovery Qualifier Limits Prepared Analyzed Dil Fac Surrogate 1-Chlorooctane 70 - 130 05/03/24 15:20 05/03/24 22:38 97 o-Terphenyl 103 70 - 130 05/03/24 15:20 05/03/24 22:38 Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL MDL Unit D Dil Fac Prepared Analyzed Chloride 197 4.96 mg/Kg 05/06/24 20:01

Lab Sample ID: 880-43052-4

Date Collected: 05/02/24 11:45 Date Received: 05/03/24 14:16

Client Sample ID: S-4 (1')

**Matrix: Solid** 

Sample Depth: 1'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *1 *+	0.00200		mg/Kg		05/03/24 15:35	05/04/24 01:12	1
Toluene	<0.00200	U *1 *+	0.00200		mg/Kg		05/03/24 15:35	05/04/24 01:12	1
Ethylbenzene	<0.00200	U *1 *+	0.00200		mg/Kg		05/03/24 15:35	05/04/24 01:12	1
m-Xylene & p-Xylene	<0.00399	U *1 *+	0.00399		mg/Kg		05/03/24 15:35	05/04/24 01:12	1
o-Xylene	<0.00200	U *1 *+	0.00200		mg/Kg		05/03/24 15:35	05/04/24 01:12	1
Xylenes, Total	< 0.00399	U *1 *+	0.00399		mg/Kg		05/03/24 15:35	05/04/24 01:12	1

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108	70 - 130	05/03/24 15:35	05/04/24 01:12	1
1,4-Difluorobenzene (Surr)	89	70 - 130	05/03/24 15:35	05/04/24 01:12	1

Method: TAL SOP Total BTEX - Tot	al BTEX Calculation						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399 U	0.00399	mg/Kg			05/04/24 01:12	1

Method: SW846 8015 NM - Diesel Ra	inge Organics (DRO) (G0	C)					
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	395	49.9	mg/Kg			05/03/24 22:58	1

Method: SW846 8015B NM - Diesel	Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL Un	nit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg	g/Kg	_	05/03/24 15:20	05/03/24 22:58	1
Diesel Range Organics (Over C10-C28)	395		49.9	mg	g/Kg		05/03/24 15:20	05/03/24 22:58	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg	g/Kg		05/03/24 15:20	05/03/24 22:58	1

	Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	1-Chlorooctane	96		70 - 130	05/03/24 15:20	05/03/24 22:58	1
Į	o-Terphenyl	105		70 - 130	05/03/24 15:20	05/03/24 22:58	1

Job ID: 880-43052-1

SDG: Lea Co., NM

Client Sample ID: S-4 (1')

Client: Crain Environmental

Project/Site: RR Bell TB

Date Date Received: 05/03/24 14:16

Sample Depth: 1'

ient Sample ID: S-4 (1')	Lab Sample ID: 880-43052-4
te Collected: 05/02/24 11:45	Matrix: Solid
to December 05/02/04 44:40	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Result Qualifier Dil Fac Analyte RL MDL Unit D Analyzed Prepared 5.04 05/06/24 20:16 Chloride 11.6 mg/Kg

Client Sample ID: S-5 (1-2') Lab Sample ID: 880-43052-5

Date Collected: 05/02/24 11:55 **Matrix: Solid** 

Date Received: 05/03/24 14:16

Sample Depth: 1-2'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U *1 *+	0.00200		mg/Kg		05/03/24 15:35	05/04/24 00:11	
Toluene	<0.00200	U *1 *+	0.00200		mg/Kg		05/03/24 15:35	05/04/24 00:11	
Ethylbenzene	<0.00200	U *1 *+	0.00200		mg/Kg		05/03/24 15:35	05/04/24 00:11	
m-Xylene & p-Xylene	<0.00400	U *1 *+	0.00400		mg/Kg		05/03/24 15:35	05/04/24 00:11	
o-Xylene	<0.00200	U *1 *+	0.00200		mg/Kg		05/03/24 15:35	05/04/24 00:11	
Xylenes, Total	<0.00400	U *1 *+	0.00400		mg/Kg		05/03/24 15:35	05/04/24 00:11	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)			70 - 130				05/03/24 15:35	05/04/24 00:11	
1,4-Difluorobenzene (Surr)	93		70 - 130				05/03/24 15:35	05/04/24 00:11	
Method: TAL SOP Total BTEX -	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	< 0.00400	U	0.00400		mg/Kg			05/04/24 00:11	
Method: SW846 8015 NM - Dies	el Range Organ	ics (DRO) (	GC)						
Analyte	Result	ics (DRO) (	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	
	•		•	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 05/03/24 23:18	
Analyte	Result 110	Qualifier	RL	MDL		<u>D</u>	Prepared		
Analyte Total TPH	Result 110 seel Range Orga	Qualifier	RL	MDL	mg/Kg	<u>D</u>	Prepared Prepared		
Analyte Total TPH  Method: SW846 8015B NM - Die	Result 110 seel Range Orga	Qualifier  nics (DRO) Qualifier	RL 50.0		mg/Kg	_ =		05/03/24 23:18	Dil Fa
Analyte Total TPH  Method: SW846 8015B NM - Die Analyte Gasoline Range Organics	Result 110 sel Range Orga Result	Qualifier  nics (DRO) Qualifier	RL 50.0		mg/Kg	_ =	Prepared	05/03/24 23:18  Analyzed	Dil Fa
Analyte Total TPH  Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result 110 seel Range Orga Result < 50.0	Qualifier  unics (DRO) Qualifier  U	(GC) RL 50.0		mg/Kg  Unit mg/Kg	_ =	Prepared 05/03/24 15:20	05/03/24 23:18  Analyzed  05/03/24 23:18	Dil Fa
Analyte Total TPH  Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result 110 seel Range Orga Result < 50.0 110	Qualifier  unics (DRO) Qualifier U	RL 50.0 (GC) RL 50.0 50.0		mg/Kg  Unit mg/Kg  mg/Kg	_ =	Prepared 05/03/24 15:20 05/03/24 15:20	05/03/24 23:18  Analyzed  05/03/24 23:18  05/03/24 23:18	Dil Fa
Analyte Total TPH  Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	Result   110	Qualifier  unics (DRO) Qualifier U	RL 50.0  (GC)  RL 50.0  50.0  50.0		mg/Kg  Unit mg/Kg  mg/Kg	_ =	Prepared 05/03/24 15:20 05/03/24 15:20 05/03/24 15:20	05/03/24 23:18  Analyzed 05/03/24 23:18  05/03/24 23:18  05/03/24 23:18	Dil Fa
Analyte Total TPH  Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)  Surrogate	Result   110	Qualifier  unics (DRO) Qualifier U	RL     50.0		mg/Kg  Unit mg/Kg  mg/Kg	_ =	Prepared 05/03/24 15:20 05/03/24 15:20 05/03/24 15:20 Prepared	05/03/24 23:18  Analyzed 05/03/24 23:18  05/03/24 23:18  05/03/24 23:18  Analyzed	Dil Fa
Analyte Total TPH  Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane	Result   110	Qualifier  Conics (DRO) Qualifier  U  Qualifier	RL 50.0  (GC)  RL 50.0  50.0  50.0  Limits  70 - 130  70 - 130		mg/Kg  Unit mg/Kg  mg/Kg	_ =	Prepared 05/03/24 15:20 05/03/24 15:20 05/03/24 15:20  Prepared 05/03/24 15:20	05/03/24 23:18  Analyzed 05/03/24 23:18  05/03/24 23:18  05/03/24 23:18  Analyzed 05/03/24 23:18	Dil Fa
Analyte Total TPH  Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane o-Terphenyl	Result   110	Qualifier  Conics (DRO) Qualifier  U  Qualifier	RL 50.0  (GC)  RL 50.0  50.0  50.0  Limits  70 - 130  70 - 130	MDL	mg/Kg  Unit mg/Kg  mg/Kg	_ =	Prepared 05/03/24 15:20 05/03/24 15:20 05/03/24 15:20  Prepared 05/03/24 15:20	05/03/24 23:18  Analyzed 05/03/24 23:18  05/03/24 23:18  05/03/24 23:18  Analyzed 05/03/24 23:18	Dil Fa

# **Surrogate Summary**

Client: Crain Environmental

Job ID: 880-43052-1

Project/Site: RR Bell TB

SDG: Lea Co., NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-43052-1	S-1 (1')	108	89
880-43052-2	S-2 (2')	109	90
880-43052-3	S-3 (1-2')	118	93
880-43052-4	S-4 (1')	108	89
880-43052-5	S-5 (1-2')	117	93
LCS 880-79944/1-A	Lab Control Sample	174 S1+	155 S1+
LCSD 880-79944/2-A	Lab Control Sample Dup	115	104
MB 880-79944/5-A	Method Blank	116	91

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-43052-1	S-1 (1')	103	113	
880-43052-1 MS	S-1 (1')	94	93	
880-43052-1 MSD	S-1 (1')	97	94	
880-43052-2	S-2 (2')	106	110	
880-43052-3	S-3 (1-2')	97	103	
880-43052-4	S-4 (1')	96	105	
880-43052-5	S-5 (1-2')	99	104	
LCS 880-79943/2-A	Lab Control Sample	76	89	
LCSD 880-79943/3-A	Lab Control Sample Dup	88	108	
MB 880-79943/1-A	Method Blank	103	115	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Crain Environmental Project/Site: RR Bell TB

MD MD

Job ID: 880-43052-1 SDG: Lea Co., NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-79944/5-A

**Matrix: Solid** 

Analysis Batch: 79896

Client Sample ID: Method Blank

Prep Type: Total/NA
Prep Batch: 79944

	IVID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/03/24 15:35	05/03/24 17:09	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/03/24 15:35	05/03/24 17:09	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/03/24 15:35	05/03/24 17:09	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/03/24 15:35	05/03/24 17:09	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/03/24 15:35	05/03/24 17:09	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/03/24 15:35	05/03/24 17:09	1

	MB	MB				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	05/03/24 15:35	05/03/24 17:09	1
1,4-Difluorobenzene (Surr)	91		70 - 130	05/03/24 15:35	05/03/24 17:09	1

Lab Sample ID: LCS 880-79944/1-A

**Matrix: Solid** 

Analysis Batch: 79896

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA

Prep Batch: 79944

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1882	*+	mg/Kg		188	70 - 130	
Toluene	0.100	0.1847	*+	mg/Kg		185	70 - 130	
Ethylbenzene	0.100	0.1833	*+	mg/Kg		183	70 - 130	
m-Xylene & p-Xylene	0.200	0.3757	*+	mg/Kg		188	70 - 130	
o-Xylene	0.100	0.1848	*+	mg/Kg		185	70 - 130	

	LCS	LCS			
Surrogate	%Recovery	Qualifier	Limits		
4-Bromofluorobenzene (Surr)	174	S1+	70 - 130		
1,4-Difluorobenzene (Surr)	155	S1+	70 - 130		

Lab Sample ID: LCSD 880-79944/2-A

**Matrix: Solid** 

Analysis Batch: 79896

**Client Sample ID: Lab Control Sample Dup** 

Prep Type: Total/NA Prep Batch: 79944

Spike LCSD LCSD RPD %Rec Analyte Added Result Qualifier Unit %Rec Limits Limit 0.1213 \*1 Benzene 0.100 mg/Kg 121 70 - 130 43 35 Toluene 0.100 0.1172 \*1 mg/Kg 117 70 - 130 45 35 Ethylbenzene 0.100 0.1162 \*1 mg/Kg 116 70 - 130 45 35 0.200 m-Xylene & p-Xylene 0.2386 \*1 mg/Kg 119 70 - 130 45 35 0.100 0.1180 \*1 118 70 - 130 35 o-Xylene mg/Kg 44

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Client: Crain Environmental Job ID: 880-43052-1
Project/Site: RR Bell TB SDG: Lea Co., NM

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

MR MR

103

115

Lab Sample ID: MB 880-79943/1-A

Matrix: Solid

Analysis Batch: 79887

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 79943

	IVID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		05/03/24 15:20	05/03/24 20:15	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		05/03/24 15:20	05/03/24 20:15	1
C10-C28)									
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/03/24 15:20	05/03/24 20:15	1
	440	440							
	IVIB	МВ							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

70 - 130

70 - 130

Lab Sample ID: LCS 880-79943/2-A

Matrix: Solid

1-Chlorooctane

o-Terphenyl

Analysis Batch: 79887

**Client Sample ID: Lab Control Sample** 

05/03/24 20:15

05/03/24 20:15

05/03/24 15:20

05/03/24 15:20

Prep Type: Total/NA Prep Batch: 79943

LCS LCS Spike Added Analyte Result Qualifier Unit D %Rec Limits Gasoline Range Organics 1000 851.2 mg/Kg 85 70 - 130 (GRO)-C6-C10 1000 788.2 Diesel Range Organics (Over mg/Kg 79 70 - 130

C10-C28)

 Surrogate
 %Recovery
 Qualifier
 Limits

 1-Chlorooctane
 76
 70 - 130

 o-Terphenyl
 89
 70 - 130

Lab Sample ID: LCSD 880-79943/3-A

Matrix: Solid

Analysis Batch: 79887

Client Sample ID: Lab Co	ntrol Sample Dup
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Prep Type: Total/NA

Prep Batch: 79943

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	827.4		mg/Kg		83	70 - 130	3	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	768.0		mg/Kg		77	70 - 130	3	20
C10-C28)									

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	88		70 - 130
o-Terphenyl	108		70 - 130

Lab Sample ID: 880-43052-1 MS

**Matrix: Solid** 

Analysis Batch: 79887

Client Sample ID: S	-1 (	1')
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Prep Type: Total/NA

Prep Batch: 79943

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<49.8	U	1000	1174		mg/Kg		114	70 - 130	 
(GRO)-C6-C10										
Diesel Range Organics (Over	594		1000	1396		mg/Kg		80	70 - 130	
C10-C28)										

Client: Crain Environmental Job ID: 880-43052-1 Project/Site: RR Bell TB SDG: Lea Co., NM

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

Lab Sample ID: 880-43052-1 MS Client Sample ID: S-1 (1')

**Matrix: Solid** 

Analysis Batch: 79887

Prep Type: Total/NA Prep Batch: 79943

MS MS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 94 70 - 130 o-Terphenyl 93 70 - 130

Lab Sample ID: 880-43052-1 MSD Client Sample ID: S-1 (1')

**Matrix: Solid** 

Analysis Batch: 79887

Prep Type: Total/NA Prep Batch: 79943

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit <49.8 Ū 1000 1203 117 70 - 1302 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 594 1454 mg/Kg 86 70 - 13020 C10-C28) MSD MSD

%Recovery Surrogate Qualifier Limits 97 70 - 130 1-Chlorooctane 94 70 - 130 o-Terphenyl

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-79991/1-A Client Sample ID: Method Blank **Prep Type: Soluble** 

**Matrix: Solid** 

**Analysis Batch: 80069** 

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Analyte Result Qualifier RL MDL Unit D Dil Fac Prepared Analyzed Chloride 5.00 <5.00 U mg/Kg 05/06/24 18:39

Lab Sample ID: LCS 880-79991/2-A Client Sample ID: Lab Control Sample **Prep Type: Soluble** 

**Matrix: Solid** 

**Matrix: Solid** 

**Analysis Batch: 80069** 

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 255.0 mg/Kg 102 90 - 110

Lab Sample ID: LCSD 880-79991/3-A

Client Sample ID: Lab Control Sample Dup

**Prep Type: Soluble** 

**Prep Type: Soluble** 

**Analysis Batch: 80069** 

Spike LCSD LCSD %Rec RPD Result Qualifier Added Analyte Unit D %Rec Limits RPD Limit Chloride 250 269.2 mg/Kg 108 90 - 110 20

Lab Sample ID: 880-43052-3 MS Client Sample ID: S-3 (1-2')

**Matrix: Solid** 

**Analysis Batch: 80069** 

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	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	197		248	451.9		mg/Kg		103	90 - 110	

# **QC Sample Results**

Client: Crain Environmental

Project/Site: RR Bell TB

Job ID: 880-43052-1

SDG: Lea Co., NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-43052-3 MSD Client Sample ID: S-3 (1-2')

Matrix: Solid
Analysis Batch: 80069

Prep Type: Soluble

RPD Sample Sample Spike MSD MSD %Rec Result Qualifier Added Result Qualifier Limits RPD Limit Analyte Unit %Rec Chloride 197 248 449.6 mg/Kg 102 90 - 110 20

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# **QC Association Summary**

Client: Crain Environmental

Project/Site: RR Bell TB

Job ID: 880-43052-1

SDG: Lea Co., NM

**GC VOA** 

Analysis Batch: 79896

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-43052-1	S-1 (1')	Total/NA	Solid	8021B	79944
880-43052-2	S-2 (2')	Total/NA	Solid	8021B	79944
880-43052-3	S-3 (1-2')	Total/NA	Solid	8021B	79944
880-43052-4	S-4 (1')	Total/NA	Solid	8021B	79944
880-43052-5	S-5 (1-2')	Total/NA	Solid	8021B	79944
MB 880-79944/5-A	Method Blank	Total/NA	Solid	8021B	79944
LCS 880-79944/1-A	Lab Control Sample	Total/NA	Solid	8021B	79944
LCSD 880-79944/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	79944

Prep Batch: 79944

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-43052-1	S-1 (1')	Total/NA	Solid	5035	<del></del>
880-43052-2	S-2 (2')	Total/NA	Solid	5035	
880-43052-3	S-3 (1-2')	Total/NA	Solid	5035	
880-43052-4	S-4 (1')	Total/NA	Solid	5035	
880-43052-5	S-5 (1-2')	Total/NA	Solid	5035	
MB 880-79944/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-79944/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-79944/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

**Analysis Batch: 80161** 

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-43052-1	S-1 (1')	Total/NA	Solid	Total BTEX	
880-43052-2	S-2 (2')	Total/NA	Solid	Total BTEX	
880-43052-3	S-3 (1-2')	Total/NA	Solid	Total BTEX	
880-43052-4	S-4 (1')	Total/NA	Solid	Total BTEX	
880-43052-5	S-5 (1-2')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 79887

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-43052-1	S-1 (1')	Total/NA	Solid	8015B NM	79943
880-43052-2	S-2 (2')	Total/NA	Solid	8015B NM	79943
880-43052-3	S-3 (1-2')	Total/NA	Solid	8015B NM	79943
880-43052-4	S-4 (1')	Total/NA	Solid	8015B NM	79943
880-43052-5	S-5 (1-2')	Total/NA	Solid	8015B NM	79943
MB 880-79943/1-A	Method Blank	Total/NA	Solid	8015B NM	79943
LCS 880-79943/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	79943
LCSD 880-79943/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	79943
880-43052-1 MS	S-1 (1')	Total/NA	Solid	8015B NM	79943
880-43052-1 MSD	S-1 (1')	Total/NA	Solid	8015B NM	79943

Prep Batch: 79943

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-43052-1	S-1 (1')	Total/NA	Solid	8015NM Prep	
880-43052-2	S-2 (2')	Total/NA	Solid	8015NM Prep	
880-43052-3	S-3 (1-2')	Total/NA	Solid	8015NM Prep	
880-43052-4	S-4 (1')	Total/NA	Solid	8015NM Prep	
880-43052-5	S-5 (1-2')	Total/NA	Solid	8015NM Prep	
MB 880-79943/1-A	Method Blank	Total/NA	Solid	8015NM Prep	

**Eurofins Midland** 

Page 15 of 23

# **QC Association Summary**

Client: Crain EnvironmentalJob ID: 880-43052-1Project/Site: RR Bell TBSDG: Lea Co., NM

# GC Semi VOA (Continued)

#### Prep Batch: 79943 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-79943/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-79943/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-43052-1 MS	S-1 (1')	Total/NA	Solid	8015NM Prep	
880-43052-1 MSD	S-1 (1')	Total/NA	Solid	8015NM Prep	

#### **Analysis Batch: 80047**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-43052-1	S-1 (1')	Total/NA	Solid	8015 NM	
880-43052-2	S-2 (2')	Total/NA	Solid	8015 NM	
880-43052-3	S-3 (1-2')	Total/NA	Solid	8015 NM	
880-43052-4	S-4 (1')	Total/NA	Solid	8015 NM	
880-43052-5	S-5 (1-2')	Total/NA	Solid	8015 NM	

#### **HPLC/IC**

#### Leach Batch: 79991

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-43052-1	S-1 (1')	Soluble	Solid	DI Leach	_
880-43052-2	S-2 (2')	Soluble	Solid	DI Leach	
880-43052-3	S-3 (1-2')	Soluble	Solid	DI Leach	
880-43052-4	S-4 (1')	Soluble	Solid	DI Leach	
880-43052-5	S-5 (1-2')	Soluble	Solid	DI Leach	
MB 880-79991/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-79991/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-79991/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-43052-3 MS	S-3 (1-2')	Soluble	Solid	DI Leach	
880-43052-3 MSD	S-3 (1-2')	Soluble	Solid	DI Leach	

#### Analysis Batch: 80069

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-43052-1	S-1 (1')	Soluble	Solid	300.0	79991
880-43052-2	S-2 (2')	Soluble	Solid	300.0	79991
880-43052-3	S-3 (1-2')	Soluble	Solid	300.0	79991
880-43052-4	S-4 (1')	Soluble	Solid	300.0	79991
880-43052-5	S-5 (1-2')	Soluble	Solid	300.0	79991
MB 880-79991/1-A	Method Blank	Soluble	Solid	300.0	79991
LCS 880-79991/2-A	Lab Control Sample	Soluble	Solid	300.0	79991
LCSD 880-79991/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	79991
880-43052-3 MS	S-3 (1-2')	Soluble	Solid	300.0	79991
880-43052-3 MSD	S-3 (1-2')	Soluble	Solid	300.0	79991

Client Sample ID: S-1 (1')

Client: Crain Environmental

Project/Site: RR Bell TB

Date Collected: 05/02/24 11:30 Date Received: 05/03/24 14:16

Lab Sample ID: 880-43052-1

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	79944	05/03/24 15:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	79896	05/04/24 00:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			80161	05/04/24 00:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			80047	05/03/24 21:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	79943	05/03/24 15:20	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	79887	05/03/24 21:16	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	79991	05/06/24 08:26	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	80069	05/06/24 19:52	SMC	EET MID

Lab Sample ID: 880-43052-2

**Matrix: Solid** 

Date Collected: 05/02/24 11:35 Date Received: 05/03/24 14:16

Client Sample ID: S-2 (2')

Dil Initial Final Batch Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Prep 5035 79944 Total/NA 4.98 g 5 mL 05/03/24 15:35 MNR EET MID Total/NA 8021B 5 mL 79896 **EET MID** Analysis 1 5 mL 05/04/24 00:51 MNR Total/NA Total BTEX 80161 05/04/24 00:51 Analysis SM **EET MID** 1 Total/NA Analysis 8015 NM 80047 05/03/24 22:17 SM **EET MID** Total/NA 79943 Prep 8015NM Prep 9.90 g 10 mL 05/03/24 15:20 TKC EET MID Total/NA Analysis 8015B NM 1 uL 1 uL 79887 05/03/24 22:17 SM **EET MID** Soluble SA Leach DI Leach 5.00 g 50 mL 79991 05/06/24 08:26 **EET MID** Soluble Analysis 300.0 5 50 mL 50 mL 80069 05/06/24 19:56 SMC **EET MID** 

Client Sample ID: S-3 (1-2')

Date Collected: 05/02/24 11:40 Date Received: 05/03/24 14:16

Lab Sample ID: 880-43052-3

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	79944	05/03/24 15:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	79896	05/03/24 23:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			80161	05/03/24 23:50	SM	EET MID
Total/NA	Analysis	8015 NM		1			80047	05/03/24 22:38	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	79943	05/03/24 15:20	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	79887	05/03/24 22:38	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	79991	05/06/24 08:26	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	80069	05/06/24 20:01	SMC	EET MID

Client Sample ID: S-4 (1')

Date Collected: 05/02/24 11:45 Date Received: 05/03/24 14:16

Lab Sample ID: 880-43052-4 **Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	79944	05/03/24 15:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	79896	05/04/24 01:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			80161	05/04/24 01:12	SM	EET MID

Client: Crain Environmental Project/Site: RR Bell TB

Job ID: 880-43052-1 SDG: Lea Co., NM

Client Sample ID: S-4 (1') Lab Sample ID: 880-43052-4 Date Collected: 05/02/24 11:45

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	ep Type Type Method Run		Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab	
Total/NA	Analysis	8015 NM		1			80047	05/03/24 22:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	79943	05/03/24 15:20	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	79887	05/03/24 22:58	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	79991	05/06/24 08:26	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	80069	05/06/24 20:16	SMC	EET MID

Client Sample ID: S-5 (1-2') Lab Sample ID: 880-43052-5

Date Collected: 05/02/24 11:55 Matrix: Solid

Date Received: 05/03/24 14:16

Date Received: 05/03/24 14:16

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	79944	05/03/24 15:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	79896	05/04/24 00:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			80161	05/04/24 00:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			80047	05/03/24 23:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	79943	05/03/24 15:20	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	79887	05/03/24 23:18	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	79991	05/06/24 08:26	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	80069	05/06/24 20:21	SMC	EET MID

Laboratory References:

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

**Eurofins Midland** 

Released to Imaging: 8/6/2024 10:54:09 AM

# **Accreditation/Certification Summary**

Client: Crain Environmental Job ID: 880-43052-1
Project/Site: RR Bell TB SDG: Lea Co., NM

#### **Laboratory: Eurofins Midland**

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

Authority	Progra	am	Identification Number	Expiration Date
Texas	NELA	Р	T104704400-23-26	06-30-24
	are included in this report, bu	it the laboratory is not certif	fied by the governing authority. This lis	t may include analytes
Analysis Method	Prep Method	Matrix	Analyte	
8015 NM		Solid	Total TPH	
Total BTEX		Solid	Total BTEX	

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# **Method Summary**

Client: Crain Environmental
Project/Site: RR Bell TB

Job ID: 880-43052-1 SDG: Lea Co., NM

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Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
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
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

#### **Protocol References:**

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

#### Laboratory References:

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

# **Sample Summary**

Client: Crain Environmental Project/Site: RR Bell TB

Job ID: 880-43052-1

SDG: Lea Co., NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-43052-1	S-1 (1')	Solid	05/02/24 11:30	05/03/24 14:16	1'
880-43052-2	S-2 (2')	Solid	05/02/24 11:35	05/03/24 14:16	2'
880-43052-3	S-3 (1-2')	Solid	05/02/24 11:40	05/03/24 14:16	1-2'
880-43052-4	S-4 (1')	Solid	05/02/24 11:45	05/03/24 14:16	1'
880-43052-5	S-5 (1-2')	Solid	05/02/24 11:55	05/03/24 14:16	1-2'

# 5/7/2024

# eurofins | Environment Testing

Xenco

# **Chain of Custody**

Houston, TX (281) 240-4200, Dallas TX (214) 902-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso TX (915) 585-3443 Lubbock, TX (806) 794-1296

Work



				Hol	bbs, NM (5	75) 392-	7550, Ca	arlsbad,	NM (575	) 988-3199					14/14/14/	.xenco	com	Page_	/ of /	
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hone <sup>.</sup>	(575) 44	11-724	2 Email	Cindy. C	raine	gm	ail.C	on;	ryano	o faere	rgy45	.com	Delivera	bles E	DD 🗌		ADaPT		Other <sup>.</sup>	
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SAMPLE RECEIPT	Temp Bla	nk. Yes	No Wetice:	(Yes) No	Parameters							l						H <sub>3</sub> PO <sub>4</sub> HP		
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of service. Eurofins Xenco w of Eurofins Xenco. A minim	vill be fiable only for the co um charge of \$85.00 will b	ost of samples and be applied to each	shall not assume any resp project and a charge of \$1	onsibility for any los 5 for each sample su	ses or exper bmitted to E	ses incur Eurofins X	red by th enco, bu	ne client i nt not ana	such loss lyzed. The	es are due to desse terms will b	ircumstance e enforced	es beyon unless pr	d the cont reviously n	rol egotiated.						
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Revised Date: 08/25/2020 Rev. 2020.2











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### **Login Sample Receipt Checklist**

Client: Crain Environmental Job Number: 880-43052-1 SDG Number: Lea Co., NM

Login Number: 43052 List Source: Eurofins Midland

List Number: 1

Creator: Rodriguez, Leticia

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

**Environment Testing** 

# **ANALYTICAL REPORT**

# PREPARED FOR

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

Generated 7/30/2024 11:33:51 AM

# **JOB DESCRIPTION**

RR Bell TB lea Co. NM

# **JOB NUMBER**

880-46538-1

Eurofins Midland 1211 W. Florida Ave Midland TX 79701

# **Eurofins Midland**

### **Job Notes**

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

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

# **Authorization**

Generated 7/30/2024 11:33:51 AM

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7/30/2024

Client: Crain Environmental Laboratory Job ID: 880-46538-1 Project/Site: RR Bell TB SDG: lea Co. NM

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#### **Definitions/Glossary**

Job ID: 880-46538-1 Client: Crain Environmental Project/Site: RR Bell TB SDG: lea Co. NM

**Qualifiers** 

GC Semi VOA

Qualifier **Qualifier Description** 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.

U Indicates the analyte was analyzed for but not detected.

**Glossary** 

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery CFL Contains Free Liquid CFU Colony Forming Unit **CNF** Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor** 

Detection Limit (DoD/DOE) DL

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)

Estimated Detection Limit (Dioxin) **EDL** Limit of Detection (DoD/DOE) LOD 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 Method Quantitation Limit MQL

NC Not Calculated

Not Detected at the reporting limit (or MDL or EDL if shown) ND

NFG Negative / Absent POS Positive / Present

**Practical Quantitation Limit** PQL

PRES Presumptive QC **Quality Control** 

**RER** Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

TEF Toxicity Equivalent Factor (Dioxin) TEQ Toxicity Equivalent Quotient (Dioxin)

**TNTC** Too Numerous To Count

#### **Case Narrative**

Client: Crain Environmental

Project: RR Bell TB

Job ID: 880-46538-1

**Eurofins Midland** Job ID: 880-46538-1

#### Job Narrative 880-46538-1

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 7/26/2024 1:40 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 7.0°C.

#### Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: S-1 (2') (880-46538-1), S-1 (3') (880-46538-2), S-1 (4.1') (880-46538-3), S-2 (3') (880-46538-4), S-2 (4.1') (880-46538-5), S-2 (5') (880-46538-6), S-2 (6') (880-46538-7), S-2 (7) (880-46538-8), S-7 (1) (880-46538-9), S-7 (2) (880-46538-10), S-7 (3) (880-46538-11) and S-7 (4) (880-46538-12).

#### **Diesel Range Organics**

Method 8015MOD\_NM: The surrogate recovery for the blank associated with preparation batch 880-86803 and analytical batch 880-86952 was outside the upper control limits.

Method 8015MOD\_NM: Surrogate recovery for the following sample was outside control limits: S-2 (3') (880-46538-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD\_NM: Surrogate recovery for the following sample was outside control limits: S-7 (1') (880-46538-9). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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 Chloride matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-86821 and analytical batch 880-86824 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

The associated samples are: S-7 (1') (880-46538-9), S-7 (3') (880-46538-11), S-7 (4') (880-46538-12), (880-46538-A-9-C MS) and (880-46538-A-9-D MSD).

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

Job ID: 880-46538-1 SDG: lea Co. NM

Client Sample ID: S-1 (2')

Client: Crain Environmental

Project/Site: RR Bell TB

Date Collected: 07/25/24 11:00 Date Received: 07/26/24 13:40 Lab Sample ID: 880-46538-1

Matrix: Solid

ı	Method: SW846 8015 NM - Diesel R	ange Organ	ics (DRO) (G	C)						
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Total TPH	<49.9	U	49.9		mg/Kg			07/29/24 17:32	1

Total TPH	<49.9	U	49.9	mg/Kg			07/29/24 17:32	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	<49.9	U	49.9	mg/Kg		07/26/24 14:17	07/29/24 17:32	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		07/26/24 14:17	07/29/24 17:32	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		07/26/24 14:17	07/29/24 17:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130			07/26/24 14:17	07/29/24 17:32	1
o-Terphenyl	105		70 - 130			07/26/24 14:17	07/29/24 17:32	1

Client Sample ID: S-1 (3')

Date Collected: 07/25/24 11:04

Lab Sample ID: 880-46538-2

Matrix: Solid

Date Received: 07/26/24 13:40

Method: SW846 8015 NM - Diesel I	Range Organics (DRO) (G	C)					
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0 U	50.0	mg/Kg			07/29/24 18:24	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		07/26/24 14:17	07/29/24 18:24	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		07/26/24 14:17	07/29/24 18:24	1
C10-C28)									
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/26/24 14:17	07/29/24 18:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130				07/26/24 14:17	07/29/24 18:24	1
o-Terphenyl	110		70 - 130				07/26/24 14:17	07/29/24 18:24	1

Client Sample ID: S-2 (3')

Date Collected: 07/25/24 10:12

Lab Sample ID: 880-46538-4

Matrix: Solid

Date Collected: 07/25/24 10:12 Date Received: 07/26/24 13:40

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	6830		49.8		mg/Kg			07/29/24 18:42	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	1100		49.8		mg/Kg		07/26/24 14:17	07/29/24 18:42	1
(GRO)-C6-C10									
Diesel Range Organics (Over	5730		49.8		mg/Kg		07/26/24 14:17	07/29/24 18:42	1
C10-C28)									
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/26/24 14:17	07/29/24 18:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	143	S1+	70 - 130				07/26/24 14:17	07/29/24 18:42	1
o-Terphenyl	150	S1+	70 - 130				07/26/24 14:17	07/29/24 18:42	1

Project/Site: RR Bell TB

Client: Crain Environmental

Lab Sample ID: 880-46538-4

Matrix: Solid

Client Sample ID: S-2 (3')
Date Collected: 07/25/24 10:12

Date Received: 07/26/24 13:40

Method: EPA 300.0 - Anions, Ion C	hromatography - S	Soluble						
Analyte	Result Qualif	fier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	342	4.96		mg/Kg			07/27/24 09:19	1

Client Sample ID: S-2 (5')

Date Collected: 07/25/24 10:21

Lab Sample ID: 880-46538-6

Matrix: Solid

Date Received: 07/26/24 13:40

Method: SW846 8015 NM - Diese	I Range Organ	ics (DRO) (	GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			07/29/24 18:59	1
- Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8		mg/Kg		07/26/24 14:17	07/29/24 18:59	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.8	U	49.8		mg/Kg		07/26/24 14:17	07/29/24 18:59	1
C10-C28)									
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/26/24 14:17	07/29/24 18:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130				07/26/24 14:17	07/29/24 18:59	
o-Terphenvl	112		70 - 130				07/26/24 14:17	07/29/24 18:59	1

Method: EPA 300.0 - Anions, Ion C	Chromatograp	hy - Solubl	e						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	695		5.04		mg/Kg			07/27/24 09:24	1

Client Sample ID: S-2 (7')

Date Collected: 07/25/24 10:30

Lab Sample ID: 880-46538-8

Matrix: Solid

Date Collected: 07/25/24 10:30 Date Received: 07/26/24 13:40

	Method: SW846 8015 NM - Diesel Range	Organ	ics (DRO) (GC)							
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
l	Total TPH	<49.7	U	49.7		mg/Kg			07/29/24 19:17	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.7	U	49.7		mg/Kg		07/26/24 14:17	07/29/24 19:17	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.7	U	49.7		mg/Kg		07/26/24 14:17	07/29/24 19:17	1
C10-C28)									
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		07/26/24 14:17	07/29/24 19:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130				07/26/24 14:17	07/29/24 19:17	1
o-Terphenyl	114		70 - 130				07/26/24 14:17	07/29/24 19:17	1

Method: EPA 300.0 - Anions, Ion C	hromatography - Soluble						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	377	4.97	mg/Kg			07/27/24 09:29	1

Job ID: 880-46538-1

SDG: lea Co. NM

Client Sample ID: S-7 (1')

Client: Crain Environmental

Project/Site: RR Bell TB

Date Collected: 07/25/24 11:35 Date Received: 07/26/24 13:40

Lab Sample ID: 880-46538-9

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1520		49.8		mg/Kg			07/29/24 19:35	1
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8		mg/Kg		07/26/24 14:17	07/29/24 19:35	1
(GRO)-C6-C10									
Diesel Range Organics (Over	1520		49.8		mg/Kg		07/26/24 14:17	07/29/24 19:35	1
C10-C28)									
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/26/24 14:17	07/29/24 19:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130				07/26/24 14:17	07/29/24 19:35	1
o-Terphenyl	135	S1+	70 - 130				07/26/24 14:17	07/29/24 19:35	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.3	F1	4.99		mg/Kg			07/27/24 09:34	1

Client Sample ID: S-7 (3') Lab Sample ID: 880-46538-11

RL

MDL Unit

Date Collected: 07/25/24 11:45

Analyte

Analyzed

Dil Fac

Date Received: 07/26/24 13:40

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

Result Qualifier

**Matrix: Solid** 

Prepared

Total TPH	1080		49.6		mg/Kg			07/29/24 19:53	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	139		49.6		mg/Kg		07/26/24 14:17	07/29/24 19:53	1
Diesel Range Organics (Over C10-C28)	943		49.6		mg/Kg		07/26/24 14:17	07/29/24 19:53	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		07/26/24 14:17	07/29/24 19:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130				07/26/24 14:17	07/29/24 19:53	1
o-Terphenyl	127		70 - 130				07/26/24 14:17	07/29/24 19:53	1

Method: EPA 300.0 - Anions, Ion C								
Analyte	Result Qu	ualifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	50.8	4.96		mg/Kg			07/27/24 09:50	1

Client Sample ID: S-7 (4') Lab Sample ID: 880-46538-12 Date Collected: 07/25/24 11:55 **Matrix: Solid** 

Date Received: 07/26/24 13:40

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)											
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Total TPH	406		50.0		mg/Kg			07/29/24 20:11	1		

Dil Fac

# **Client Sample Results**

Client: Crain Environmental Job ID: 880-46538-1 Project/Site: RR Bell TB SDG: lea Co. NM

Client Sample ID: S-7 (4')

Date Received: 07/26/24 13:40

Chloride

Lab Sample ID: 880-46538-12 Date Collected: 07/25/24 11:55

Matrix: Solid

11

11

07/27/24 09:55

Method: SW846 8015B NM - Diese	l Range Orga	nics (DRO) (	GC)					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/26/24 14:17	07/29/24 20:1
Diesel Range Organics (Over C10-C28)	406		50.0		mg/Kg		07/26/24 14:17	07/29/24 20:1
Oil Dange Organics (Over C29 C26)	4F0 0		E0.0				07/06/04 44:47	07/20/24 20:4

57.7

Oil Range Organics (Over C28-C36) <50.0 U mg/Kg 07/26/24 14:17 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1-Chlorooctane 102 70 - 130 07/26/24 14:17 07/29/24 20:11

o-Terphenyl	108	70 - 130			07/26/24 14:17	07/29/24 20:11		1
Method: EPA 300.0 - Anions, Ion Chron	natography - Soluble							
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac	С

5.01

mg/Kg

# **Surrogate Summary**

Client: Crain Environmental

Project/Site: RR Bell TB

Job ID: 880-46538-1

SDG: lea Co. NM

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-46538-1	S-1 (2')	107	105	
880-46538-1 MS	S-1 (2')	101	111	
880-46538-1 MSD	S-1 (2')	104	114	
880-46538-2	S-1 (3')	112	110	
880-46538-4	S-2 (3')	143 S1+	150 S1+	
880-46538-6	S-2 (5')	113	112	
880-46538-8	S-2 (7')	115	114	
880-46538-9	S-7 (1')	108	135 S1+	
880-46538-11	S-7 (3')	116	127	
880-46538-12	S-7 (4')	102	108	
LCS 880-86803/2-A	Lab Control Sample	102	115	
LCSD 880-86803/3-A	Lab Control Sample Dup	105	118	
MB 880-86803/1-A	Method Blank	83	163 S1+	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Crain Environmental Job ID: 880-46538-1 Project/Site: RR Bell TB SDG: lea Co. NM

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

MD MD

163 S1+

Lab Sample ID: MB 880-86803/1-A

**Matrix: Solid** Analysis Batch: 86952 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 86803

	IVID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		07/26/24 14:17	07/29/24 09:28	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		07/26/24 14:17	07/29/24 09:28	1
C10-C28)									
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/26/24 14:17	07/29/24 09:28	1
	МВ	МВ							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130				07/26/24 14:17	07/29/24 09:28	1
	Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	Analyte         Result           Gasoline Range Organics         <50.0	Gasoline Range Organics	Analyte         Result         Qualifier         RL           Gasoline Range Organics         <50.0	Analyte         Result         Qualifier         RL         MDL           Gasoline Range Organics         <50.0	Analyte         Result         Qualifier         RL         MDL         Unit           Gasoline Range Organics         <50.0	Analyte         Result         Qualifier         RL         MDL         Unit         D           Gasoline Range Organics         <50.0	Analyte         Result         Qualifier         RL         MDL         Unit         D         Prepared           Gasoline Range Organics         <50.0	Analyte         Result         Qualifier         RL         MDL         Unit         D         Prepared         Analyzed           Gasoline Range Organics         <50.0

70 - 130

Lab Sample ID: LCS 880-86803/2-A

**Matrix: Solid** 

o-Terphenyl

Analysis Batch: 86952

**Client Sample ID: Lab Control Sample** 

Client Sample ID: Lab Control Sample Dup

07/29/24 09:28

07/26/24 14:17

Prep Type: Total/NA Prep Batch: 86803

Prep Type: Total/NA

LCS LCS Spike Analyte Added Result Qualifier Unit D %Rec Limits Gasoline Range Organics 1000 1114 111 70 - 130 mg/Kg (GRO)-C6-C10 1000 Diesel Range Organics (Over 1177 mg/Kg 118 70 - 130C10-C28)

LCS LCS %Recovery Qualifier Limits Surrogate 1-Chlorooctane 102 70 - 130 o-Terphenyl 115 70 - 130

Analysis Batch: 86952

Lab Sample ID: LCSD 880-86803/3-A **Matrix: Solid** 

Prep Batch: 86803 LCSD LCSD RPD Spike %Rec Limit Analyte Added Result Qualifier RPD Unit D %Rec Limits Gasoline Range Organics 1000 1152 mg/Kg 115 70 - 130 20 (GRO)-C6-C10 Diesel Range Organics (Over 1000 1185 mg/Kg 118 70 - 130 20

C10-C28)

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	105	70 - 130
o-Terphenyl	118	70 - 130

Lab Sample ID: 880-46538-1 MS

**Matrix: Solid** 

Analysis Batch: 86952

Client Sample ID: S-1 (	2')
Prep Type: Total/N	A

Prep Batch: 86803

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<49.9	U	997	1131	-	mg/Kg		113	70 - 130	 
(GRO)-C6-C10										
Diesel Range Organics (Over	<49.9	U	997	1189		mg/Kg		117	70 - 130	
C10-C28)										

Job ID: 880-46538-1 Client: Crain Environmental Project/Site: RR Bell TB SDG: lea Co. NM

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

MS MS

Lab Sample ID: 880-46538-1 MS Client Sample ID: S-1 (2')

**Matrix: Solid** 

Analysis Batch: 86952

Prep Type: Total/NA

Prep Batch: 86803

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 101 70 - 130 o-Terphenyl 111 70 - 130

Lab Sample ID: 880-46538-1 MSD Client Sample ID: S-1 (2')

**Matrix: Solid** 

Analysis Batch: 86952

Prep Type: Total/NA Prep Batch: 86803

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	1159		mg/Kg		116	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.9	U	997	1230		mg/Kg		121	70 - 130	3	20

MSD MSD Surrogate %Recovery Qualifier Limits 70 - 130 1-Chlorooctane 104 114 70 - 130 o-Terphenyl

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-86821/1-A Client Sample ID: Method Blank **Prep Type: Soluble** 

**Matrix: Solid** 

Analysis Batch: 86824

MB MB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			07/27/24 08:06	1

Lab Sample ID: LCS 880-86821/2-A **Client Sample ID: Lab Control Sample Matrix: Solid** 

Analysis Batch: 86824

	Spike	LCS LCS				%Rec
Analyte	Added	Result Qual	ifier Unit	D	%Rec	Limits
Chloride	250	252.8	mg/Kg		101	90 - 110

Lab Sample ID: LCSD 880-86821/3-A Client Sample ID: Lab Control Sample Dup

**Matrix: Solid** 

**Analysis Batch: 86824** 

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	253.4		mg/Kg		101	90 - 110	0	20

Lab Sample ID: 880-46538-9 MS Client Sample ID: S-7 (1') **Matrix: Solid Prep Type: Soluble** 

Analysis Batch: 86824

Released to Imaging: 8/6/2024 10:54:09 AM

Spike MS MS %Rec Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chloride 12.3 F1 250 309.4 F1 90 - 110 mg/Kg 119

**Eurofins Midland** 

**Prep Type: Soluble** 

**Prep Type: Soluble** 

# **QC Sample Results**

Client: Crain Environmental Job ID: 880-46538-1 Project/Site: RR Bell TB SDG: lea Co. NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-46538-9 MSD Client Sample ID: S-7 (1') **Prep Type: Soluble** 

**Matrix: Solid** 

Analysis Batch: 86824

-	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	12.3	F1	250	310.6	F1	mg/Kg		120	90 - 110	0	20

# **QC Association Summary**

Client: Crain Environmental Job ID: 880-46538-1 Project/Site: RR Bell TB SDG: lea Co. NM

GC Semi VOA

Prep Batch: 86803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46538-1	S-1 (2')	Total/NA	Solid	8015NM Prep	
880-46538-2	S-1 (3')	Total/NA	Solid	8015NM Prep	
880-46538-4	S-2 (3')	Total/NA	Solid	8015NM Prep	
880-46538-6	S-2 (5')	Total/NA	Solid	8015NM Prep	
880-46538-8	S-2 (7')	Total/NA	Solid	8015NM Prep	
880-46538-9	S-7 (1')	Total/NA	Solid	8015NM Prep	
880-46538-11	S-7 (3')	Total/NA	Solid	8015NM Prep	
880-46538-12	S-7 (4')	Total/NA	Solid	8015NM Prep	
MB 880-86803/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-86803/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-86803/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-46538-1 MS	S-1 (2')	Total/NA	Solid	8015NM Prep	
880-46538-1 MSD	S-1 (2')	Total/NA	Solid	8015NM Prep	

**Analysis Batch: 86952** 

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46538-1	S-1 (2')	Total/NA	Solid	8015B NM	86803
880-46538-2	S-1 (3')	Total/NA	Solid	8015B NM	86803
880-46538-4	S-2 (3')	Total/NA	Solid	8015B NM	86803
880-46538-6	S-2 (5')	Total/NA	Solid	8015B NM	86803
880-46538-8	S-2 (7')	Total/NA	Solid	8015B NM	86803
880-46538-9	S-7 (1')	Total/NA	Solid	8015B NM	86803
880-46538-11	S-7 (3')	Total/NA	Solid	8015B NM	86803
880-46538-12	S-7 (4')	Total/NA	Solid	8015B NM	86803
MB 880-86803/1-A	Method Blank	Total/NA	Solid	8015B NM	86803
LCS 880-86803/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	86803
LCSD 880-86803/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	86803
880-46538-1 MS	S-1 (2')	Total/NA	Solid	8015B NM	86803
880-46538-1 MSD	S-1 (2')	Total/NA	Solid	8015B NM	86803

**Analysis Batch: 87041** 

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46538-1	S-1 (2')	Total/NA	Solid	8015 NM	_
880-46538-2	S-1 (3')	Total/NA	Solid	8015 NM	
880-46538-4	S-2 (3')	Total/NA	Solid	8015 NM	
880-46538-6	S-2 (5')	Total/NA	Solid	8015 NM	
880-46538-8	S-2 (7')	Total/NA	Solid	8015 NM	
880-46538-9	S-7 (1')	Total/NA	Solid	8015 NM	
880-46538-11	S-7 (3')	Total/NA	Solid	8015 NM	
880-46538-12	S-7 (4')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 86821

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46538-4	S-2 (3')	Soluble	Solid	DI Leach	
880-46538-6	S-2 (5')	Soluble	Solid	DI Leach	
880-46538-8	S-2 (7')	Soluble	Solid	DI Leach	
880-46538-9	S-7 (1')	Soluble	Solid	DI Leach	
880-46538-11	S-7 (3')	Soluble	Solid	DI Leach	
880-46538-12	S-7 (4')	Soluble	Solid	DI Leach	

# **QC Association Summary**

Client: Crain Environmental Job ID: 880-46538-1
Project/Site: RR Bell TB SDG: lea Co. NM

# **HPLC/IC** (Continued)

#### Leach Batch: 86821 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-86821/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-86821/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-86821/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-46538-9 MS	S-7 (1')	Soluble	Solid	DI Leach	
880-46538-9 MSD	S-7 (1')	Soluble	Solid	DI Leach	

#### Analysis Batch: 86824

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-46538-4	S-2 (3')	Soluble	Solid	300.0	86821
880-46538-6	S-2 (5')	Soluble	Solid	300.0	86821
880-46538-8	S-2 (7')	Soluble	Solid	300.0	86821
880-46538-9	S-7 (1')	Soluble	Solid	300.0	86821
880-46538-11	S-7 (3')	Soluble	Solid	300.0	86821
880-46538-12	S-7 (4')	Soluble	Solid	300.0	86821
MB 880-86821/1-A	Method Blank	Soluble	Solid	300.0	86821
LCS 880-86821/2-A	Lab Control Sample	Soluble	Solid	300.0	86821
LCSD 880-86821/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	86821
880-46538-9 MS	S-7 (1')	Soluble	Solid	300.0	86821
880-46538-9 MSD	S-7 (1')	Soluble	Solid	300.0	86821

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Job ID: 880-46538-1

SDG: lea Co. NM

Client Sample ID: S-1 (2')

Date Received: 07/26/24 13:40

Client: Crain Environmental

Project/Site: RR Bell TB

Date Collected: 07/25/24 11:00

Lab Sample ID: 880-46538-1

**Matrix: Solid** 

	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			87041	07/29/24 17:32	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	86803	07/26/24 14:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	86952	07/29/24 17:32	TKC	EET MID

Lab Sample ID: 880-46538-2

**Matrix: Solid** 

Date Collected: 07/25/24 11:04 Date Received: 07/26/24 13:40

Client Sample ID: S-1 (3')

Batch Batch Dil Initial Final Batch Prepared Method Number or Analyzed Prep Type Туре Run Factor Amount Amount Analyst Lab Total/NA 8015 NM 87041 07/29/24 18:24 Analysis SM **EET MID** Total/NA Prep 8015NM Prep 10.01 g 10 mL 86803 07/26/24 14:17 EL EET MID Total/NA Analysis 8015B NM 1 1 uL 1 uL 86952 07/29/24 18:24 TKC **EET MID** 

Lab Sample ID: 880-46538-4 Client Sample ID: S-2 (3') Date Collected: 07/25/24 10:12

**Matrix: Solid** 

Lab Sample ID: 880-46538-6

Date Received: 07/26/24 13:40

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			87041	07/29/24 18:42	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	86803	07/26/24 14:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	86952	07/29/24 18:42	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	86821	07/26/24 16:21	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	86824	07/27/24 09:19	SMC	EET MID

Client Sample ID: S-2 (5')

Date Collected: 07/25/24 10:21

Date Received: 07/26/24 13:40

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			87041	07/29/24 18:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	86803	07/26/24 14:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	86952	07/29/24 18:59	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	86821	07/26/24 16:21	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	86824	07/27/24 09:24	SMC	EET MID

Client Sample ID: S-2 (7')

Date Collected: 07/25/24 10:30

Date Received: 07/26/24 13:40

Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			87041	07/29/24 18:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	86803	07/26/24 14:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	86952	07/29/24 18:59	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	86821	07/26/24 16:21	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	86824	07/27/24 09:24	SMC	EET MID

Lab Sample ID: 880-46538-8

Matrix: Solid

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			87041	07/29/24 19:17	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	86803	07/26/24 14:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	86952	07/29/24 19:17	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	86821	07/26/24 16:21	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	86824	07/27/24 09:29	SMC	EET MID

Job ID: 880-46538-1

SDG: lea Co. NM

Client Sample ID: S-7 (1')

Client: Crain Environmental

Project/Site: RR Bell TB

Lab Sample ID: 880-46538-9

Matrix: Solid

Date Collected: 07/25/24 11:35 Date Received: 07/26/24 13:40

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			87041	07/29/24 19:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	86803	07/26/24 14:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	86952	07/29/24 19:35	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	86821	07/26/24 16:21	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	86824	07/27/24 09:34	SMC	EET MID

Lab Sample ID: 880-46538-11

**Matrix: Solid** 

Date Collected: 07/25/24 11:45 Date Received: 07/26/24 13:40

Client Sample ID: S-7 (3')

	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		-	87041	07/29/24 19:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	86803	07/26/24 14:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	86952	07/29/24 19:53	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	86821	07/26/24 16:21	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	86824	07/27/24 09:50	SMC	EET MID

Client Sample ID: S-7 (4') Lab Sample ID: 880-46538-12

Date Collected: 07/25/24 11:55

Date Received: 07/26/24 13:40

**Matrix: Solid** 

_	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			87041	07/29/24 20:11	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	86803	07/26/24 14:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	86952	07/29/24 20:11	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	86821	07/26/24 16:21	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	86824	07/27/24 09:55	SMC	EET MID

Laboratory References:

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

# **Accreditation/Certification Summary**

Client: Crain Environmental
Project/Site: RR Bell TB
Job ID: 880-46538-1
SDG: lea Co. NM

## **Laboratory: Eurofins Midland**

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

Authority	Progra	am	Identification Number	<b>Expiration Date</b>			
Texas	NELAF	P	T104704400	06-30-25			
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i ne tollowing analytes	are included in this report. bu	it the laboratory is not certif	ied by the governing authority. This lis	t mav include analvte			
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## **Method Summary**

Client: Crain Environmental Project/Site: RR Bell TB

Job ID: 880-46538-1

SDG: lea Co. NM

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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
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

#### Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

## Laboratory References:

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

**Eurofins Midland** 

Released to Imaging: 8/6/2024 10:54:09 AM

## **Sample Summary**

Client: Crain Environmental Project/Site: RR Bell TB

Job ID: 880-46538-1

SDG: lea Co. NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-46538-1	S-1 (2')	Solid	07/25/24 11:00	07/26/24 13:40
880-46538-2	S-1 (3')	Solid	07/25/24 11:04	07/26/24 13:40
880-46538-4	S-2 (3')	Solid	07/25/24 10:12	07/26/24 13:40
880-46538-6	S-2 (5')	Solid	07/25/24 10:21	07/26/24 13:40
880-46538-8	S-2 (7')	Solid	07/25/24 10:30	07/26/24 13:40
880-46538-9	S-7 (1')	Solid	07/25/24 11:35	07/26/24 13:40
880-46538-11	S-7 (3')	Solid	07/25/24 11:45	07/26/24 13:40
880-46538-12	S-7 (4')	Solid	07/25/24 11:55	07/26/24 13:40



# **Chain of Custody**

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

Work



													WV	vw.xenc	o.com F	Page	of_	2
oject Manager:	Cindy Crai	n		Bill to: (if differ	ent)		5wift		54-95	544				Work On	der Commo	ents		
ompany Name:	Crain Envico			Company Nan	ne:	F	orly Ac	ce5			Progr	am:	UST/PST [		Brownfiel	ids 📗 1	RRC S	uperfund [
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none:	(575)441-7	244	Email:	Cindy.Co	in@an						Delive	erables:	: EDD		ADaPT	Ot	ther:	
roject Name:	RR Bell TE	3	Turn	Around					ANAL	YSIS REQUI	EST					Preser	vative Cod	des
roject Number:	-		Routine	Rush	Pres. Code										Non	e: NO	DIV	Vater: H₂O
oject Location:	Lea Co. NN	1	Due Date:	8/31/24											Cool	l: Cool	MeC	DH: Me
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Revised Date: 08/25/2020 Rev. 2020.2

# **Chain of Custody**

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

Work Order No:	46538

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Project Manager:	Cindy (	rain			Bill to: (if	different)		K	yen	5wi	H							Wor	rk Orde	er Com	ments		
Company Name:	Crain En	ורסוני	nental		Company	y Name:		Fi	arty	Acr	25				Program: UST/PST PRP Brownfields RRC							RRC 🗌	Superfund
Address:	2925 €.	17th.	54.		Address:			Farty Acres 11757 Kady Frwy, Ste. 725					5	State of Project: NM									
City, State ZIP:	Odessa,	X	79761		City, Stat		-	HO	<b>US</b> 6	2 2	<u> </u>	770	79		Reporting: Level II Level III PST/UST TRRP							Level IV	
Phone:	(575) 44	1-72	44	Email:	Cindy	1. Crai	CH	mai	Lon	; ry	met	ABY	rgy. 45	.com	Deliv	erables:	EDI			ADaPT	<u> </u>	ther:	
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Project Location:				Due Date:																c	ool: Cool	Me	eOH: Me
Sampler's Name:				TAT starts the																Н	ICL: HC	H	NO 3: HN
PO #:				the lab, if rec	eived by 4:3	30pm	S											i		Н	I <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub>	Na	OH: Na
SAMPLE RECEIPT	Temp B	ank:	Yes No	Wet Ice:	Yes	No	Parameters													Н	I <sub>3</sub> PO <sub>4</sub> : HP		
Samples Received Inta	ct: Yes	No	Thermometer	er ID:			aram	7												N	laHSO 4: N	ABIS	
Cooler Custody Seals:		N/A	Correction F	actor:			9	8015,	3	1										N	la <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : N	aSO <sub>3</sub>	
Sample Custody Seals	Yes No	N/A	Temperatur					86	.0										1		n Acetate-		
Total Containers:			Corrected T	emperature:				E	Chlorides											N	laOH+Asco	orbic Acid:	SAPC
Sample Identi	fication	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	HAT.	0												Samp	le Comm	nents
5-7 (3.)		5	7/25/24	1145	3'	C		X	$\times$														
5-7 (4)			V	1155	4"	C	1	$\times$	$\times$														
Total 200.7 / 601 Circle Method(s) a				RCRA 13PP									u Fe Pb Mn Mo	_				_	_		I Sn U V 7470 / 74		
																	<u>'</u>	ig. 10.	31/24	+3.1 / /	4/0 / /4	71	
lotice: Signature of this doc: f service. Eurofins Xenco wi f Eurofins Xenco. A minimu	Il be liable only for the o	ost of samp	oles and shall not	assume any respo	nsibility for a	ny losses o	expens	es incume	d by the	dient if s	uch losses	are due	to circumstan	ces beyo	nd the co	ontrol	red.						
Relinguished by:				y: (Signature				Date/					ed by: (Sig					ed by:	(Signa	ature)		Date/T	ime
Circles C	sais)	-	1	>			7/24	bel	13	10	2												
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## **Login Sample Receipt Checklist**

Client: Crain Environmental

Job Number: 880-46538-1

SDG Number: lea Co. NM

List Source: Eurofins Midland

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 <6mm (1/4").	N/A	

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**Appendix D: Photographic Documentation** 

# APPENDIX D PHOTOGRAPHIC DOCUMENTATION RR BELL BATTERY



View to E of release area (9/28/23).



View of release area (9/28/23).



View to SE of release area (5/2/24).



View to W of release area (5/2/24).



View of sample point S-1 (7/25/24).



View of sample points S-1 and S-2 (7/25/24).



View of sample point S-7 (7/25/24).



View of sample location S-2 (7/25/24).

Page 1

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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

Action 369634

## **QUESTIONS**

Operator:	OGRID:
FORTY ACRES ENERGY, LLC	371416
11757 KATY FWY	Action Number:
HOUSTON, TX 77079173	369634
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

#### QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2405454076
Incident Name	NAPP2405454076 R R BELL BATTERY @ 30-025-04401
Incident Type	Oil Release
Incident Status	Remediation Plan Received
Incident Well	[30-025-04401] WEST EUMONT UNIT #405

Location of Release Source								
Please answer all the questions in this group.								
Site Name	R R BELL BATTERY							
Date Release Discovered	09/28/2023							
Surface Owner	Private							

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications fo	or the volumes provided should be attached to the follow-up C-141 submission.
Crude Oil Released (bbls) Details	Cause: Normal Operations   Flow Line - Production   Crude Oil   Released: 5 BBL   Recovered: 0 BBL   Lost: 5 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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

QUESTIONS, Page 2

Action 369634

QUESTI	IONS (continued)	
Operator: FORTY ACRES ENERGY, LLC 11757 KATY FWY	OGRID: 371416 Action Number:	
HOUSTON, TX 77079173	369634	
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	
QUESTIONS		
Nature and Volume of Release (continued)		
Is this a gas only submission (i.e. only significant Mcf values reported)	More info needed to determine if this will be treated as a "gas only" report.	
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No	
Reasons why this would be considered a submission for a notification of a major release	Unavailable.	
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	safety hazard that would result in injury.	
The source of the release has been stopped	True	
The impacted area has been secured to protect human health and the environment	True	
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True	
All free liquids and recoverable materials have been removed and managed appropriately	True	
If all the actions described above have not been undertaken, explain why	Not answered.	
	iation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative o ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation in the follow-up C-141 submission.	
to report and/or file certain release notifications and perform corrective actions for releate OCD does not relieve the operator of liability should their operations have failed to	knowledge and understand that pursuant to OCD rules and regulations all operators are required asses which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or	
I hereby agree and sign off to the above statement	Name: Cindy Crain Email: cindy.crain@gmail.com Date: 08/01/2024	

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

QUESTIONS, Page 3

Action 369634

**QUESTIONS** (continued)

Operator:	OGRID:
FORTY ACRES ENERGY, LLC	371416
11757 KATY FWY	Action Number:
HOUSTON, TX 77079173	369634
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

#### 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 51 and 75 (ft.)	
What method was used to determine the depth to ground water	Estimate or Other	
Did this release impact groundwater or surface water	No	
What is the minimum distance, between the closest lateral extents of the release and 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	No	

Remediation Plan		
Please answer all the questions that apply or are indicated. This infort	mation must be provided to the	e appropriate district office no later than 90 days after the release discovery date.
Requesting a remediation plan approval with this submiss	sion	Yes
Attach a comprehensive report demonstrating the lateral and vertical e	extents of soil contamination a	ssociated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.
Have the lateral and vertical extents of contamination been	fully delineated	Yes
Was this release entirely contained within a lined containn	nent area	No
Soil Contamination Sampling: (Provide the highest observable	ole value for each, in milliç	grams per kilograms.)
Chloride (EPA 300.0 or SM4500 C	IB)	3700
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015	5M)	6830
GRO+DRO (EPA SW-846 Method 80	15M)	5730
BTEX (EPA SW-846 Method 80	21B or 8260B)	0
Benzene (EPA SW-846 Method 80	021B or 8260B)	0
Per Subsection B of 19.15.29.11 NMAC unless the site characterizatio which includes the anticipated timelines for beginning and completing		fforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,
On what estimated date will the remediation commence		09/23/2024
On what date will (or did) the final sampling or liner inspec	tion occur	10/14/2024
On what date will (or was) the remediation complete(d)		11/18/2024
What is the estimated surface area (in square feet) that wi	II be reclaimed	3000
What is the estimated volume (in cubic yards) that will be r	reclaimed	390
What is the estimated surface area (in square feet) that wi	II be remediated	3000
What is the estimated volume (in cubic yards) that will be r	remediated	390
These estimated dates and measurements are recognized to be the be-	st guess or calculation at the t	ime 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	o be minimally adjusted in acc	ordance 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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Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS, Page 4

Action 369634

## **QUESTIONS** (continued)

Operator:	OGRID:
FORTY ACRES ENERGY, LLC	371416
11757 KATY FWY	Action Number:
HOUSTON, TX 77079173	369634
	Action Type:
l l	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

### QUESTIONS

Remediation Plan (continued)		
Please answer all the questions that apply or are indicated. This information must be provided to the	appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:		
(Select all answers below that apply.)		
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes	
Which OCD approved facility will be used for off-site disposal	MONUMENT SITE #15 (TNM-94-58) [fAB0000000056]	
OR which OCD approved well (API) will be used for off-site disposal	Not answered.	
OR is the off-site disposal site, to be used, out-of-state	Not answered.	
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	Not answered.	
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.	
(In Situ) Soil Vapor Extraction	Not answered.	
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.	
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.	
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.	
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.	
OTHER (Non-listed remedial process)	Not answered.	

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

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

I hereby agree and sign off to the above statement

Name: Cindy Crain

Email: cindy.crain@gmail.com

Date: 08/01/2024

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

Action 369634

QUESTIONS (continued	QL	JESTIC	ONS (	continu	ıed
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Operator:	OGRID:
FORTY ACRES ENERGY, LLC	371416
11757 KATY FWY	Action Number:
HOUSTON, TX 77079173	369634
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

#### QUESTIONS

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

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Remediation Closure Request

Requesting a remediation closure approval with this submission

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

QUESTIONS, Page 6

Action 369634

Operator:	OGRID:
FORTY ACRES ENERGY, LLC	371416
11757 KATY FWY	Action Number:
HOUSTON, TX 77079173	369634
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)
QUESTIONS	
Sampling Event Information	
Last sampling notification (C-141N) recorded	{Unavailable.}

No

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

**QUESTIONS** (continued)

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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

Action 369634

## **CONDITIONS**

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Operator:	OGRID:
FORTY ACRES ENERGY, LLC	371416
11757 KATY FWY	Action Number:
HOUSTON, TX 77079173	369634
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

#### CONDITIONS

Created By	Condition	Condition Date
nvelez	Remediation plan is approved with the following conditions; 1. FAE requests a deferral of remediation below the storage tanks, heater treater, and additional ancillary equipment until time of abandonment of the Battery is premature and OCD cannot render a decision until the remediation activity has been completed. Know that any deferral request must be accompanied with the impacted material being fully delineated and an estimation of the remaining impacts are determined. 2. FAE has 90 days (November 4, 2024) to submit to OCD its appropriate or final remediation closure report.	8/6/2024