i



Remediation Summary and Closure Report

March 24, 2025

Anderson Ranch Unit #013 Crude Oil Release Incident #nAPP2426256273 API #30-025-00391 Lea County, New Mexico

Prepared For:

Grand Banks Energy Company 10 Desta Drive, Suite 300-E Midland, Texas 79705

Prepared By:

Crain Environmental 2925 East 17th Street Odessa, Texas 79761

Cvnthia K. Crain, P.G



Table of Contents

1.0	INTRODUCTI	ON	.1
		ND	
		SURE CRITERIA	
	3.1	Groundwater Evaluation	
	3.2	Surface Features and Other Development	.3
	3.3	Wetlands, Floodplain, and Karst Geology	
	3.4	Closure Criteria Applicable to the Site	.4
4.0	SITE ASSESS	SMENT/CHARACTERIZATION RESULTS	. 4
	4.1	Site Map	
	4.2	Depth to Groundwater	
	4.3	Wellhead Protection Area	.5
	4.4	Distance to Nearest Significant Watercourse	.5
5.0	SUMMARY O	F REMEDIATION ACTIVITIES	.5
		Y ANALYTICAL DATA QUALITY ASSURANCE/QUALITY CONTROL RESULT	
		QUEST	
8.0	DISTRIBUTIO	N	.7

TABLES

Table 1: Summary of Soil Sample Analytical Results Following MicroBlaze Treatment

Table 2: Summary of Soil Sample Analytical Results from Excavation

FIGURES

Figure 1 – Site Location Map

Figure 2 – Site Map with Sample Locations

Figure 3 – Wellhead Protection Area Map

Figure 4 – National Wetlands Inventory Map

Figure 5 – FEMA Floodplain Map

Figure 6 - Karst Potential Map

APPENDICES

Appendix A – NMOCD Communication

Appendix B – Water Well Files

Appendix C - Laboratory Analytical Reports

Appendix D – Photographic Documentation

Appendix E – Waste Manifests



1.0 Introduction

Crain Environmental (CE), on behalf of Grand Banks Energy Company (Grand Banks), has prepared this Remediation Summary and Closure Report for the crude oil release at the Anderson Ranch Unit #013 (ARU #13). The Site is located in Unit Letter K (NE/SW), Section 11, Township 16 South, Range 32 East, Lea County, New Mexico at global positioning system (GPS) coordinates of 32.934319°, -103.739263°. The property surface rights are owned by the State of New Mexico, and land use in the Site vicinity is primarily oil and gas production and cattle grazing. The location of the release is depicted on Figure 1.

2.0 Background

On November 8, 2023, Grand Banks received a letter from the New Mexico State Land Office (SLO) that requested plugging of several Anderson Ranch Unit (ARU) wells, and remediation of several other ARU wells, including the ARU #13.

In a review of the ARU leases, the Environmental Compliance Office (ECO) of SLO made the following comments regarding the ARU #13:

- The site was located immediately adjacent to a playa.
- Soil staining around well head must be investigated and remediated.
- Pit scar stays visible in all aerials north of well pad.
- The 2017, 2020, and 2023 aerials illustrate potential releases on southern boundary, source may be line to flare.

On November 27, 2023, CE conducted a site inspection at ARU 13, and oil staining was observed around the wellhead. On March 5, 2024, CE conducted initial soil investigations at the area around the wellhead, at the southwestern boundary of the well pad, and in the former pit area.

On May 1, 2024, a Remediation/Reclamation Workplan was submitted to ECO that proposed remediation of TPH impacted soil around the wellhead with MicroBlaze Emergency Liquid Spill Control (MicroBlaze) per manufacturer's specifications. The ECO requested that a revised workplan be submitted that included additional information regarding the MicroBlaze treatment and addressing proper seed bed preparation of the former drilling pit area. A Revised Remediation/Reclamation Workplan was submitted to the ECO on June 9, 2024, and MicroBlaze treatment began on August 20, 2024.

On September 18, 2024, a Notice of Release (NOR) was provided to the New Mexico Oil Conservation Division (NMOCD) for the area around the wellhead, and an Initial C-141 was provided to the NMOCD for Incident #nAPP2426256273 on that same date. The date of discovery of the release was listed on the NOR and C-141 as March 29, 2024. The extent of the release is depicted on Figure 2.

On September 25, 2024, confirmation soil samples were collected from the area of MicroBlaze treatment. Upon receipt of the laboratory results, Grand Banks elected to conduct soil remediation by dig and haul methods in lieu of continuation of MicroBlaze treatment.



On December 23, 2024, the NMOCD approved a 90-day extension for submitting a Closure Report to the NMOCD, with a due date of March 24, 2025. A copy of the NMOCD correspondence is included in Appendix A.

Soil remediation activities have been completed, and this Remediation Summary and Closure Report for Incident Number nAPP2426254839 is being submitted by the due date of March 24, 2025 in accordance with 19.15.29.11 New Mexico Administrative Code (NMAC).

3.0 NMOCD Closure Criteria

Cleanup standards for oil 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.

3.1 Groundwater Evaluation

A review of the New Mexico Office of the State Engineer (NMOSE) records indicated one well (L 02846) within a 0.5-mile radius of the Site. Well L 02846 was installed on April 11, 1955, to a depth of 328 feet, and records a depth to water at 275 feet.

A review of United States Geological Survey (USGS) records indicated one well (USGS 325614103434001) with recorded depth to groundwater information within a 0.5-mile radius of the Site. Well USGS 325614103434001 provides depth to water records up to March 27, 1981 (216.74' bgs).

Each well within a 0.5-mile radius is listed in the table below. Figure 3 provides a 0.5-mile radius circle around the Site and shows the location of each well. Well records for each well are provided in Appendix



B. Based on the available water well data, it is estimated that the depth to groundwater at the Site is greater than 100 feet bgs.

Nearby Water Wells

Well ID	Location from Release Site	Year Installed	Use	Total Depth / Depth to Water (feet bgs)
L 02846	Approx. 820 feet to NW	1955	N/A	328 / 275
USGS 325614103434001	Approx. 1,419 feet to SE	1961	N/A	317 / 216.74 (3/27/81)

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) and National Wetlands Inventory Map (Figure 4) indicates there is a playa lake located 128 feet west of the site. No sinkhole is 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 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 reviewed 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 nearest freshwater pond, and emergent wetland is located 128 feet west of the site. A review of the Federal Emergency Management Act (FEMA) floodplain map shows the wetland located 128 feet west of the site. Finally, the New Mexico Bureau of Land Management (BLM) karst potential map indicates the Site is located within a "low karst potential" area. Figures 4, 5, and 6 depict USFWS wetlands information, FEMA floodplain information, and the karst potential data, respectively.

3.4 Closure Criteria Applicable to the Site

Even though the depth to groundwater at the site is estimated to be greater than 100' below ground surface (bgs), a playa lake/wetland is located 128 feet west of the site, and the most stringent NMOCD Closure Criteria will apply. 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/kg)					
Constit	tuent of Concern	≤ 50 feet bgs	51 feet to 100 feet bgs	> 100 feet bgs			
Chlo	ride (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 depth to groundwater is estimated to be greater than 100' bgs.

4.3 Wellhead Protection Area

The 0.5-mile wellhead protection area is shown on Figure 3. Referring to well NMOSE and USGS well records, the depth to groundwater at the Site is greater than 100' bgs. A review of the USFWS wetlands map indicated a freshwater emergent wetland is located 128 feet west 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.

5.0 Summary of Remediation Activities

On March 5, 2024, two soil samples were collected from the wellhead area (S-1 and S-6), and two samples (S-4 and S-5) were collected from the suspect areas on the south end of the well pad. Samples were collected from depths of 1' and 2' bgs at each location using a backhoe. The samples were placed in clean glass sample jars, properly labeled, immediately placed on ice, and hand delivered to Eurofins Environment Testing (Eurofins) in Midland, Texas under proper chain-of-custody control for analysis of 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. Additionally, two composite samples (S-2 and S-3) were collected at a depth of 1' bgs from the former pit area located north of the well to determine if the soil is suitable for vegetation re-establishment. Samples S-2 and S-3 were analyzed for pH, electrical conductivity (EC), sodium adsorption ratio (SAR), and exchangeable sodium percentage (ESP).

Table 1 provides a summary of the laboratory results of samples S-1 and S-4 through S-6. Figure 2 shows the sample locations. The laboratory report and chain of custody documentation is provided in Appendix C. Photographic documentation is provided in Appendix D.

Referring to Table 1, samples collected at S-1 reported a chloride concentration above the Closure Criteria at a depth of 1' bgs (741 mg/kg), and a TPH concentration above the Closure Criteria at a depth of 2' bgs (114 mg/kg). Samples collected at S-6 reported TPH concentrations above the Closure Criteria at depths of 1' bgs (339 mg/kg) and 2' bgs (356 mg/kg). Concentrations of TPH, BTEX, and chlorides were reported below the Closure Criteria in each sample from S-4 and S-5.

Upon ECO approval of the revised Remediation Workplan, the soil around the wellhead was tilled, and MicroBlaze (mixed with fresh water) was applied to the surface area (measuring approximately 30' x 30') on August 20, 2024. Fresh water was applied to the area of MicroBlaze application every 3 to 4 days, and the area was re-tilled on September 12, 2024, prior to water application.



The former pit area at the ARU #13 was seeded on September 4, 2024, following a heavy rainfall event on September 2, 2024. Approximately 60 pounds of NMSLO coarse seed was applied by interseeding methods (as approved by ECO), and fresh water was applied to the area on 3 separate dates (September 6, September 10, and September 13, 2024).

On September 25, 2024, confirmation samples were collected from five locations (S-1, and S-6 through S-9) within the MicroBlaze treatment area to determine the effectiveness of remediation. Samples were collected from the surface (0-6" bgs) and at depths of 1' bgs and either 2.5' or 3' bgs at each sample location. All samples were placed in laboratory prepared containers, properly labeled, immediately placed on ice, and hand delivered to Eurofins for analysis of TPH, BTEX, and chlorides.

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

Referring to Table 1, chloride concentrations were reported above the Closure Criteria in samples collected from S-1 (at depths of 0-6", 1', and 3'), S-7 (at depths of 1' and 2.5'), and S-8 (at depths of 0-6", 1', and 2.5'). Concentrations of TPH were reported above the Closure Criteria in samples collected from S-8 (at depths of 0-6" and 2.5') and S-9 (at a depth of 0-6").

On September 28, 2024, a Notice of Release (NOR) and Initial C-141 were submitted to the NMOCD for Incident #nAPP2426256273. On October 26, 2024, Grand Banks notified ECO that MicroBlaze treatment would be discontinued, and affected soil would be excavated and hauled to a NMOCD approved disposal facility.

A 28' x 28' surface area to the north and east of the wellhead was excavated to a depth of 4.1' bgs, and a 10' x 10' area was excavated tp a depth of 1' bgs in the area of sample S-9 (located west of the wellhead) until five-point composite confirmation soil samples were collected from the bottom and sidewalls of each excavation on January 15, 2025. All confirmation samples were collected pursuant to 19.15.29.12(D) NMAC, and were placed in clean glass sample jars, properly labeled, immediately placed on ice and hand delivered to Eurofins under proper chain-of-custody control for analysis of TPH, BTEX, and chlorides.

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

Referring to Table 2, all TPH, BTEX, and chloride concentrations were reported below the test method detection limits or Closure Criteria.

From January 22, 2025, to January 29, 2025, a total of 240 cubic yards (cy) of excavated soil were hauled to disposal at GM Inc. Waste Manifests are provided in Appendix E. The final excavation north and east of the wellhead measured 28' x 28', and the final excavation west of the wellhead measured 10' x 10'.



Upon NMOCD approval of this Closure Report, the excavation will be backfilled to grade with non-impacted similar material obtained from a nearby 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.

6.0 Laboratory Analytical Data Quality Assurance/Quality Control Results

Data reported in Job Numbers 880-40528-1, 880-49110-1, and 880-53354-1 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 in Appendix C.

7.0 Closure Request

A total of 240 cubic yards of soil was excavated and hauled to disposal at GM Inc. All five-point confirmation samples collected from the bottom and sidewalls of the excavation reported TPH, Benzene, BTEX, and chloride concentrations below the NMOCD Closure Criteria.

Upon NMOCD approval of this Closure Report, the excavation on the well pad of an active well will be backfilled to grade with non-impacted similar material obtained from a nearby 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.

Grand Banks Energy respectfully requests Closure of Incident # nAPP2426256273.

8.0 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: Chris Gaddy

Octane Energy

310 West Wall, Suite 300 Midland, Texas 79701

Copy 3: New Mexico State Land Office

Environmental Compliance Office

eco@slo.state.nm



TABLES

Page 11 of 160

TABLE 1 SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS FOLLOWING MICROBLAZE TREATMENT GRAND BANKS ENERGY, CO. ANDERSON RANCH UNIT #013 INCIDENT # nAPP2426256273

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	Бериі		(GKO)		(WINO)		milligrams	per kilogran	n (mg/kg)	Aylelles		
NMOCD Closure	Criteria (Su	rface to 4' b	gs)				100	10	-	-	-	50	600
S-1 (1')	03/05/24	1'	Treated	<49.6	61.4	<49.6	61.4	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	741
S-1 (2')	03/05/24	2'	Treated	<50.5	114	<50.5	114	<0.00198	0.00206	0.00233	0.0132	0.0175	515
S-1 (1')	09/25/24	1'	Treated	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	1,130
S-1 (0-6")	09/25/24	0-6"	Treated	<49.9	<49.9	<49.9	<49.9	<0.00201	0.00201	<0.00201	<0.00402	<0.00402	1,280
S-1 (3')	09/25/24	3'	Treated	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	796
S-4 (1')	03/05/24	1'	In Situ	<49.7	50.3	<49.7	50.3	<0.00201	0.00301	<0.00201	<0.00402	<0.00402	41.0
S-4 (2')	03/05/24	2'	In Situ	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	94.3
S-5 (1')	03/05/24	1'	In Situ	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	87.3
S-5 (2')	03/05/24	2'	In Situ	<50.2	<50.2	<50.2	<50.2	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	49.9
S-6 (1')	03/05/24	1'	Treated	<50.4	339	<50.4	339	<0.00200	0.00238	<0.00200	<0.00401	<0.00401	178
S-6 (2')	03/05/24	2'	Treated	<50.5	356	<50.5	356	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	270
S-6 (0-6")	09/25/24	0-6"	Treated	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	65.5
S-6 (1')	09/25/24	1'	Treated	<49.7	<49.7	<49.7	<49.7	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	63.2
S-6 (3')	09/25/24	3'	Treated	<49.7	<49.7	<49.7	<49.7	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	138
S-7 (0-6")	09/25/24	0-6"	Treated	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	422
S-7 (1')	09/25/24	1'	Treated	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	648
S-7 (2.5')	09/25/24	2.5'	Treated	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	1,010
S-8 (0-6")	09/25/24	0-6"	Treated	<50.0	420 F1	<50.0	420	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	1,250
S-8 (1')	09/25/24	1'	Treated	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	906
S-8 (2.5')	09/25/24	2.5'	Treated	<49.9	155	<49.9	155	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	877
S-9 (0-6")	09/25/24	0-6"	Treated	<49.8	393	<49.8	393	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	181
S-9 (1')	09/25/24	1'	Treated	<50.0	60.4	<50.0	60.4	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	303
S-9 (3')	09/25/24	3'	Treated	<49.6	<49.6	<49.6	<49.6	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	273

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. Green highlighting indicates samples collected after MicroBlaze treatment.
- 10. F1: MS and/or MSD recovery exceeds control limits.

Page 12 of 160

TABLE 2 SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS FROM EXCAVATION GRAND BANKS ENERGY, CO. ANDERSON RANCH UNIT #013 INCIDENT # nAPP2426256273

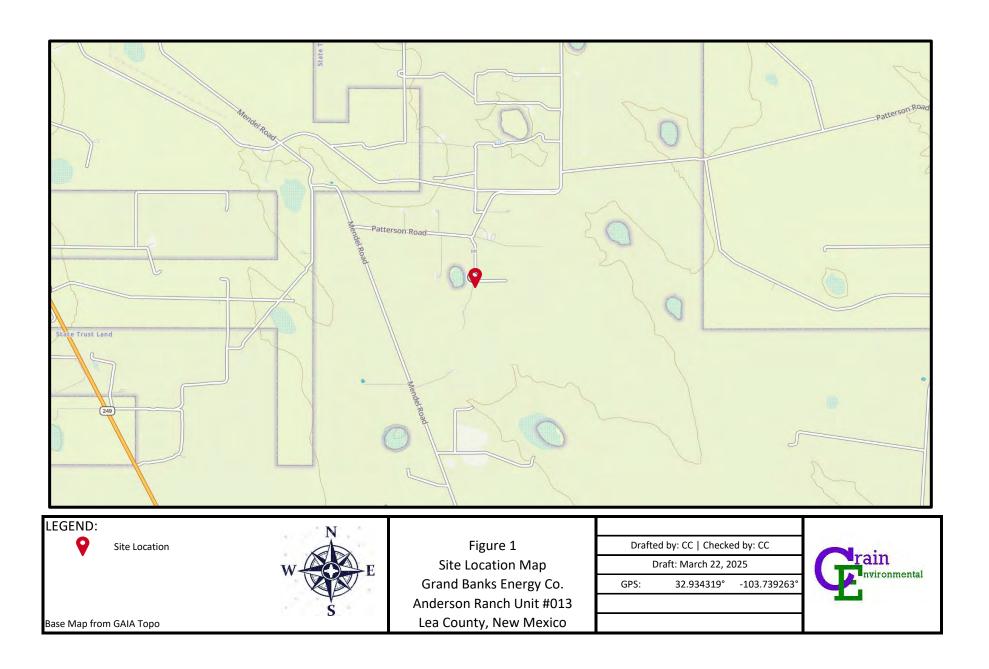
Second Column	Sample ID	Sample Date	Sample Depth	Soil Status	TPH (GRO)	TPH (DRO)	TPH (MRO)	Total TPH	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	Chloride
S-1(17)									milligrams	s per kilogram	ı (mg/kg)	<u> </u>		
S-1(2)	NMC	CD Closure C	riteria					100	10	-	-	-	50	600
S-1 (1)	S-1 (1')	03/05/24	1'	Treated	<49.6	61.4	<49.6	61.4	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	741
Section Control Cont	` ,													
S-16 Control	. ,	_												-
S-14 (0-4)	` '	_												
\$-4(1) 0305/24 1' In Situ	. ,													
S-4 (2)														
\$-6 (17) 030524 11	` '													
S-5 (2)					,		<49.9	<49.9		<0.00202	<0.00202	<0.00403		94.3
\$-6 (1) 0305/24 1' Treated <50.4 339	` '		!											
\$-6 (2) 03/05/24 0-6° Treated c49.8 c49.8 c49.8 c49.8 c49.8 c49.0 03/05/24 0-00199 c40,00399 c40,00399 c40,00399 c5.22 \$-6 (3) 09/25/24 1' Treated c49.7 c49.8 c49	S-5 (2')	03/05/24	2'	In Situ	<50.2	<50.2	<50.2	<50.2	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	49.9
S-6 (0-6")	` '	_	<u> </u>	Treated		_				0.00238	<0.00200	<0.00401		
\$-6 (1)	. ,													
\$6.6(3) 0925/24 3' Treated <49.7	` '			+		_				 		-		
\$7 (0.6°) 09/25/24 0-6° Treated <50.0 <50.0 <50.0 <50.0 <50.0 <0.00201 <0.00201 <0.00201 <0.00201 <0.00402 <0.00402 <422 <57 (1') 09/25/24 1' Treated <49.8 <49.8 <49.8 <49.8 <49.8 <0.00202 <0.00202 <0.00202 <0.00202 <0.00404 <0.00404 <648 <57 (2) 09/25/24 5' Treated <49.8 <49.8 <49.8 <49.8 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199	` '			+						 				
\$-7 (1')		09/23/24		Treateu		<49.7	<49.7	<49.7	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	130
\$7.(2.5) 09(25)24 2.5' Treated <49.8 <49.8 <49.8 <49.8 <0.00199 <0.00199 <0.00199 <0.00199 <0.00398 <0.00398 <0.00398 <1.010 <0.00398 <0.00398 <1.010 <0.00398 <0.00398 <1.010 <0.00398 <0.00398 <1.010 <0.00398 <0.00398 <1.010 <0.00398 <0.00398 <1.010 <0.00398 <0.00398 <1.010 <0.00398 <0.00398 <1.010 <0.00398 <0.00398 <1.010 <0.00398 <0.00398 <1.010 <0.00398 <0.00398 <1.010 <0.00398 <0.00398 <1.010 <0.00398 <0.00398 <1.010 <0.00398 <0.00398 <1.010 <0.00398 <0.00398 <1.010 <0.00398 <0.00398 <0.00398 <1.010 <0.00398 <0.00398 <0.00398 <1.010 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398	. ,													
\$\frac{\text{S-16}(0-4')}{\text{S-16}(0-4')}\$ 01/15/25 0-4'	. ,		•					_		1				
\$8 (0-6*) 09/25/24 0-6* Treated <50.0 420 F1 <50.0 50.0 <50.0 <0.00200 0.00200 0.00200 0.00200 0.00400														•
\$-8 (1)														
\$-8 (2.5)	` '													
\$-23 (4.1') 01/15/25	. ,		•							1				
S-9 (0-6') 09/25/24 0-6' Treated <49.8 393 <0.00200 <0.00200 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00401 <0.00401 <0.00401 <0.00401 <0.00401 <0.00401 <0.00401 <0.00401 <0.00401 <0.00401 <0.00401 <0.00401 <0.00401 <0.00401 <0.00401 <0.00401 <0.00401 <0.00401 <0.00401 <0.00401 <0.00401 <0.00401 <0.00401 <0.00401 <0.00401 <0.00401 <0.00401 <0.00401 <0.00401 <0.00401 <0.00401 <0.00401 <0.00401 <0.00398 <0.00398 <0.00398 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00399 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.003														
S-9 (1') 09/25/24 1' Treated <50.0 60.4 <0.00200 <0.00200 <0.00200 <0.00401 <0.00401 303 S-9 (3') 09/25/24 3' Treated <49.6														
S-9 (3) 09/25/24 3' Treated <49.6 <49.6 <49.6 <49.6 <49.6 <49.6 <0.00199 <0.00199 <0.00199 <0.00398 <0.00398 <0.00398 <273 S-10 (0-1') 01/15/25 0-1' In Situ <50.0 <50.0 <50.0 <50.0 <50.0 <0.00200 <0.00200 <0.00200 <0.00200 <0.00399 <0.00399 <10.00 S-11 (0-1') 01/15/25 0-1' In Situ <49.7 <49.7 <49.7 <49.7 <49.7 <0.00199 <0.00199 <0.00199 <0.00398 <0.00398 <0.00398 <9.98 S-12 (0-1') 01/15/25 0-1' In Situ <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <0.00202 <0.00202 <0.00202 <0.00202 <0.00404 <0.00404 <9.94 S-13 (0-1') 01/15/25 0-1' In Situ <49.7 <49.7 <49.7 <49.7 <49.7 <0.00201 0.00201 <0.00201 <0.00201 <0.00402 <0.00402 <10.0 S-15 (0-4') 01/15/25 0-4' In Situ <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <0.00199 <0.00199 <0.00199 <0.00199 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00	, ,													
\$-10 (0-1')	` '			+	-					 				
\$-11 (0-1')														
S-12 (0-1') 01/15/25 0-1' In Situ <49.8 <49.8 <49.8 <49.8 <0.00202 <0.00202 <0.00202 <0.00404 <0.00404 <9.94 S-13 (0-1') 01/15/25 0-1' In Situ <49.7 <49.7 <49.7 <49.7 <49.7 <0.00201 0.00201 <0.00201 <0.00201 <0.00402 <0.00402 <10.0 S-15 (0-4') 01/15/25 0-4' In Situ <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <0.00199 <0.00199 <0.00199 <0.00199 <0.00398 <0.00398 <0.00398 <9.96 S-17 (0-4') 01/15/25 0-4' In Situ <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <0.00199 <0.00199 <0.00199 <0.00199 <0.00398 <0.00398 <11.2 S-18 (0-4') 01/15/25 0-4' In Situ <49.8 <49.8 <49.8 <49.8 <49.9 <49.9 <0.00200 <0.00200 <0.00200 <0.00200 <0.00400 <0.00400 <10.0 S-19 (0-4') 01/15/25 0-4' In Situ <49.8 <49.8 <49.8 <49.8 <49.8 <0.00198 <0.00198 <0.00198 <0.00198 <0.00397 <0.00397 <10.1 S-20 (0-4') 01/15/25 0-4' In Situ <49.7 <49.7 <49.7 <49.7 <49.7 <0.00202 <0.00202 <0.00202 <0.00202 <0.00404 <0.00404 <10.0 S-21 (0-4') 01/15/25 0-4' In Situ <49.7 <49.7 <49.7 <49.7 <49.7 <0.00202 <0.00202 <0.00202 <0.00202 <0.00404 <0.00404 <10.0 S-21 (0-4') 01/15/25 0-4' In Situ <49.8 <49.8 <49.8 <49.8 <49.8 <0.00198 <0.00199 <0.00199 <0.00398 <0.00398 <0.00398 <9.94 S-22 (4.1') 01/15/25 4.1' In Situ <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <0.00198 <0.00199 <0.00199 <0.00398 <0.00398 <0.00398 <9.94				· -	<u> </u>							1		
S-13 (0-1') 01/15/25 0-1' In Situ <49.7 <49.7 <49.7 <49.7 <0.00201 0.00201 <0.00201 <0.00402 <0.00402 <10.0 S-15 (0-4') 01/15/25 0-4' In Situ <49.8 <49.8 <49.8 <49.8 <49.8 <0.00199 <0.00199 <0.00199 <0.00199 <0.00199 <0.00398 <0.00398 <0.00398 <11.2 S-18 (0-4') 01/15/25 0-4' In Situ <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <0.00200 <0.00200 <0.00200 <0.00200 <0.00400 <0.00400 <10.00 S-19 (0-4') 01/15/25 0-4' In Situ <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <0.00198 <0.00198 <0.00198 <0.00398 <0.00398 <11.2 S-20 (0-4') 01/15/25 0-4' In Situ <49.7 <49.7 <49.7 <49.7 <49.7 <0.00202 <0.00202 <0.00202 <0.00202 <0.00202 <0.00404 <0.00404 <10.0 S-20 (0-4') 01/15/25 0-4' In Situ <49.7 <49.7 <49.7 <49.7 <49.7 <0.00202 <0.00202 <0.00202 <0.00202 <0.00404 <0.00404 <10.0 S-20 (0-4') 01/15/25 0-4' In Situ <50.0 <50.0 <50.0 <50.0 <50.0 <0.00200 <0.00200 <0.00200 <0.00200 <0.00401 <0.00401 <9.98 S-22 (4.1') 01/15/25 4.1' In Situ <49.8 <49.8 <49.8 <49.8 <49.8 <49.8 <0.00198 <0.00199 <0.00199 <0.00199 <0.00398 <0.00398 <0.00398 <0.00398 <10.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.00398 <0.	S-11 (0-1')	01/15/25	0-1'	In Situ	<49.7	<49.7	<49.7	<49.7	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<9.98
S-15 (0-4') 01/15/25 0-4' In Situ <49.8 <49.8 <49.8 <0.00199 <0.00199 <0.00398 <0.00398 <9.96 S-17 (0-4') 01/15/25 0-4' In Situ <50.0	S-12 (0-1')	01/15/25	0-1'	In Situ	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	<9.94
S-17 (0-4') 01/15/25 0-4' In Situ <50.0 <50.0 <50.0 <0.00199 <0.00199 <0.00199 <0.00398 <0.00398 <11.2 S-18 (0-4') 01/15/25 0-4' In Situ <49.9	S-13 (0-1')	01/15/25	0-1'	In Situ	<49.7	<49.7	<49.7	<49.7	<0.00201	0.00201	<0.00201	<0.00402	<0.00402	<10.0
S-18 (0-4') 01/15/25 0-4' In Situ <49.9 <49.9 <49.9 <49.9 <49.9 <0.00200 <0.00200 <0.00200 <0.00400 <0.00400 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0	S-15 (0-4')	01/15/25	0-4'	In Situ	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<9.96
S-19 (0-4') 01/15/25 0-4' In Situ <49.8 <49.8 <49.8 <49.8 <0.00198 <0.00198 <0.00198 <0.00397 <0.00397 <10.1 S-20 (0-4') 01/15/25 0-4' In Situ <49.7	S-17 (0-4')	01/15/25	0-4'	In Situ	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	11.2
S-20 (0-4') 01/15/25 0-4' In Situ <49.7 <49.7 <49.7 <0.00202 <0.00202 <0.00202 <0.00404 <0.00404 <10.0 S-21 (0-4') 01/15/25 0-4' In Situ <50.0	S-18 (0-4')	01/15/25	0-4'	In Situ	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	<10.0
S-21 (0-4') 01/15/25 0-4' In Situ <50.0 <50.0 <50.0 <50.0 <0.00200 <0.00200 <0.00200 <0.00200 <0.00401 <0.00401 <9.98 S-22 (4.1') 01/15/25 4.1' In Situ <50.0 <50.0 <50.0 <50.0 <50.0 <0.00199 <0.00199 <0.00199 <0.00199 <0.00398 <0.00398 <0.00398 <9.94 S-24 (4.1') 01/15/25 4.1' In Situ <49.8 <49.8 <49.8 <49.8 <49.8 <0.00198 <0.00198 <0.00198 <0.00198 <0.00396 <0.00396 <10.1	S-19 (0-4')	01/15/25	0-4'	In Situ	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	<10.1
S-22 (4.1') 01/15/25 4.1' In Situ <50.0 <50.0 <50.0 <50.0 <0.00199 <0.00199 <0.00199 <0.00199 <0.00398 <0.00398 <9.94 S-24 (4.1') 01/15/25 4.1' In Situ <49.8 <49.8 <49.8 <49.8 <49.8 <0.00198 <0.00198 <0.00198 <0.00198 <0.00396 <0.00396 <10.1	S-20 (0-4')	01/15/25	0-4'	In Situ	<49.7	<49.7	<49.7	<49.7	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	<10.0
S-24 (4.1') 01/15/25 4.1' In Situ <49.8 <49.8 <49.8 <49.8 <0.00198 <0.00198 <0.00198 <0.00396 <0.00396 <10.1	S-21 (0-4')	01/15/25	0-4'	In Situ	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<9.98
	S-22 (4.1')	01/15/25	4.1'	In Situ	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<9.94
S-25 (4.1') 01/15/25 4.1' In Situ <49.7 <49.7 <49.7 <49.7 <0.00201 0.00201 <0.00201 <0.00402 <0.00402 10.2	S-24 (4.1')	01/15/25	4.1'	In Situ	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	<10.1
	S-25 (4.1')	01/15/25	4.1'	In Situ	<49.7	<49.7	<49.7	<49.7	<0.00201	0.00201	<0.00201	<0.00402	<0.00402	10.2

Notes:

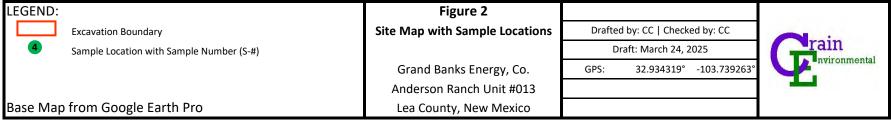
- 1. GRO: Gasoline Range Organics
- 2. DRO: Diesel Range Organics
- 3. MRO: Motor Oil Range Organics
- 4. -: No NMOCD Closure Criteria established.
- 5. bgs: Below Ground Surface
- ${\it 6. Bold indicates the COC was above the appropriate laboratory method/sample detection limit.}\\$
- 7. < indicates the COC was below the appropriate laboratory method/sample detection limit.
- 8. Bold and yellow highlighting indicates the COC was above the appropriate NMOCD Closure Criteria.
- 9. Green highlighting indicates soil was excavated and disposed.



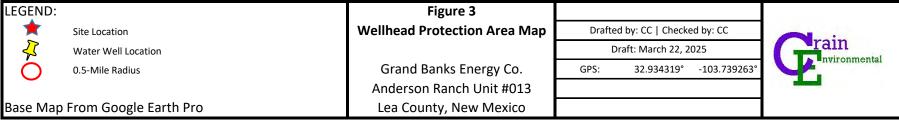
FIGURES

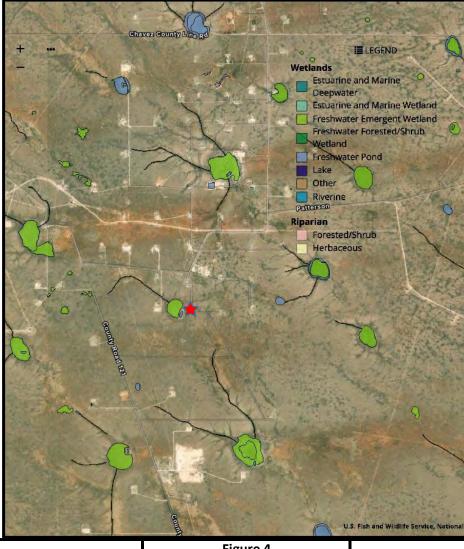




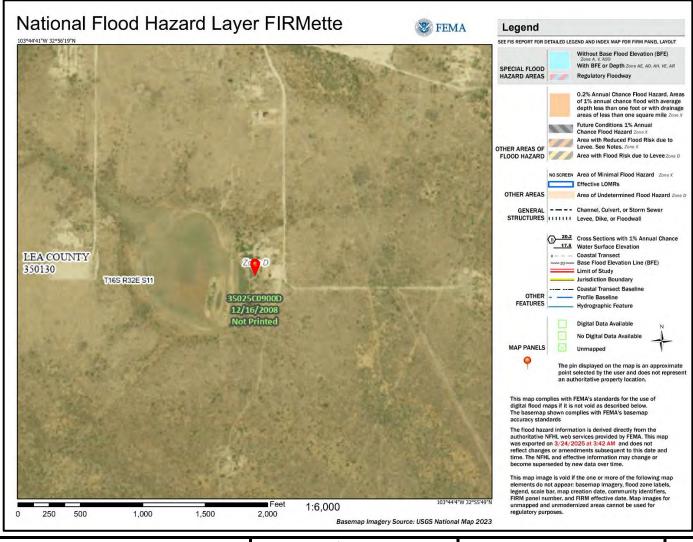


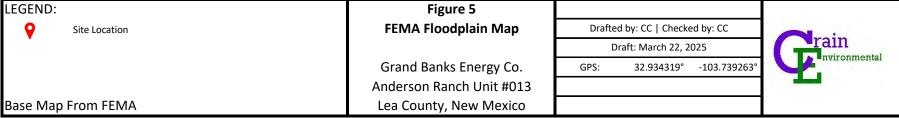


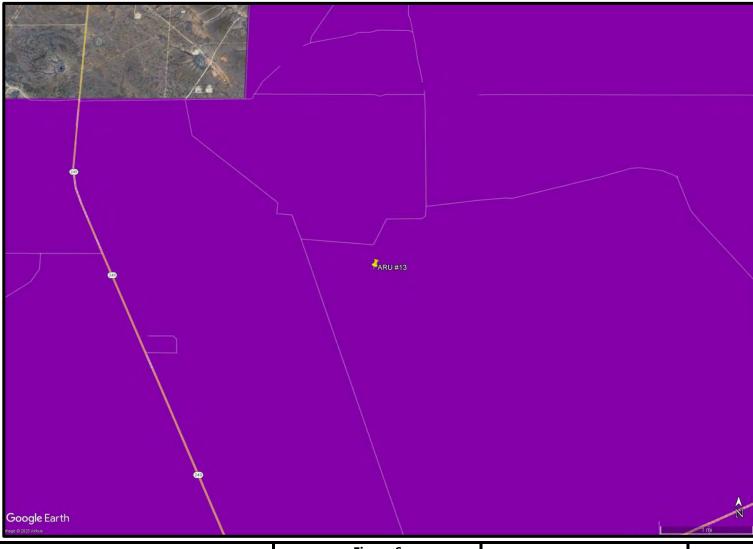


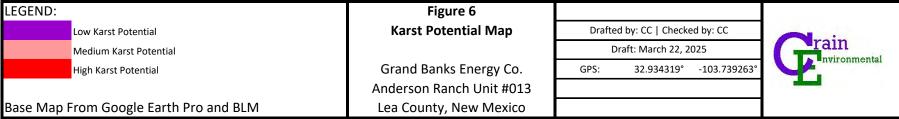














Appendix A: NMOCD Communication



Cindy Crain <cindy.crain@gmail.com>

Grand Banks Energy - Anderson Ranch Unit #013 (Incident #nAPP2426256273) - Extension Request

3 messages

Cindy Crain <cindy.crain@gmail.com>

Sat, Dec 14, 2024 at 4:16 PM

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

Cc: Chris Gaddy <chris.gaddy@octane-energy.com>

Nelson,

Remediation is being conducted at the Grand Banks Energy (GBE) Anderson Ranch Unit (ARU) #013, but has not yet been completed and confirmation samples have not been collected.

As a Closure Report is due to the OCD by December 18, 2024, GBE respectfully requests a 90-day extension for submission of the Report. Every effort will be made to submit the Closure Report as soon as possible.

Please let me know if you have any questions, or if you approve the extension.

Thank you, Cindy Crain

Crain Environmental 2925 East 17th Street Odessa, TX 79761 (575) 441-7244

Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
To: Cindy Crain <cindy.crain@gmail.com>
Co: Chris Gaddy <chris.gaddy@octane-energy.com>

Mon, Dec 23, 2024 at 2:25 PM

Good afternoon Cindy,

Thank you for the inquiry.

The incident remediation closure report due date (RCRDD) had lapsed after June 27, 2024. In the future, please submit your requests prior to its RCRDD. Failure to do so may result in any request being denied.

Given the circumstance, your request for a 90-day time extension request date is approved from the today's date. The Remediation Due date has been updated to 03/24/2025.

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

The OCD requires a copy of all correspondence related to remedial activities be included in all proposals, weekly/monthly/quarterly/semi-annual/annual, or final closure reports. Correspondence reporting requirements may include, but not limited to, time extension requests, sample event notifications, and variance requests.

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

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_



From: Cindy Crain < cindy.crain@gmail.com> Sent: Saturday, December 14, 2024 3:16 PM

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

Cc: Chris Gaddy <chris.gaddy@octane-energy.com>

Subject: [EXTERNAL] Grand Banks Energy - Anderson Ranch Unit #013 (Incident #nAPP2426256273) - Extension

Request

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

[Quoted text hidden]

Cindy Crain <cindy.crain@gmail.com>
To: "Velez, Nelson, EMNRD" <Nelson.Velez@emnrd.nm.gov>
Co: Chris Gaddy <chris.gaddy@octane-energy.com>

Thank you, Nelson -

I will let you know if I have any questions.

Sincerely, Cindy Crain

[Quoted text hidden]

Mon, Dec 23, 2024 at 8:32 PM



Appendix B: Water Well Files

Point of Diversion Summary

quarters are 1=NW 2=NE 3=SW 4=SE quarters are smallest to largest

NAD83 UTM in meters

Well Tag	POD Nbr	Q64	Q16	Q4	Sec	Tws	Rng	Х	Υ	Мар
	L 02846	SE	NE	NW	11	16S	32E	617956.0	3645413.0 *	•

* UTM location was derived from PLSS - see Help

Driller License:	46	Driller Company:	ABBOTT BROTHERS COMPANY		
Driller Name:	CLYDE ABBO	ТТ			
Drill Start Date:		Drill Finish Date:	1953-05-06	Plug Date:	
Log File Date:	1955-04-11	PCW Rcv Date:	1960-03-16	Source:	Shallow
Pump Type:	TURBIN	Pipe Discharge Size:	4	Estimated Yield:	60
Casing Size:	7.00	Depth Well:	328	Depth Water:	275

Water Bearing Stratifications:

Тор	Bottom	Description
275	328	Sandstone/Gravel/Conglomerate

Casing Perforations:

Тор	Bottom
275	328

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

1/30/25 4:08 PM MST Point of Diversion Summary

©2024 New Mexico Office of the State Engineer, All Rights Reserved. | <u>Disclaimer</u> | <u>Contact Us</u> | <u>Help</u> | <u>Home</u> |



USGS Home Contact USGS Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category: Geographic Area:
Groundwater ✓ United States ✓ GO

Click to hideNews Bulletins

- Explore the NEW <u>USGS National Water Dashboard</u> interactive map to access real-time water data from over 13,500 stations nationwide.
- Full News

Groundwater levels for the Nation

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs site_no list =

• 325614103434001

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 325614103434001 16S.32E.11.24143

Lea County, New Mexico
Latitude 32°56'17", Longitude 103°43'52" NAD27
Land-surface elevation 4,301.00 feet above NGVD29
The depth of the well is 317 feet below land surface.
This well is completed in the High Plains aquifer (N100HGHPLN) national aquifer.
This well is completed in the Ogallala Formation (1210GLL) local aquifer.

Output formats

Table of data	
Tab-separated data	

Graph of data

Reselect period

Date	Time	? Water- level date- time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measur
1961-03-15		D	62610		4084.14	NGVD29	1	Z	:	
1961-03-15		D	62611		4085.84	NAVD88	1	Z	•	
1961-03-15		D	72019	216.86			1	Z	:	
1966-02-16		D	62610		4076.83	NGVD29	1	Z		
1966-02-16		D	62611		4078.53	NAVD88	1	Z		
1966-02-16		D	72019	224.17			1	Z		
1971-03-23		D	62610		4084.94	NGVD29	1	Z		
1971-03-23		D	62611		4086.64	NAVD88	1	Z	:	
1971-03-23		D	72019	216.06			1	7		
1976-05-07		D	62610		4085.05	NGVD29	1	Z		
1976-05-07		D	62611		4086.75	NAVD88	1	Z	:	
1976-05-07		D	72019	215.95			1	Z		
1981-03-27		D	62610		4084.26	NGVD29	1	Z		
1981-03-27		D	62611		4085.96	NAVD88	1	Z	:	
1981-03-27		D	72019	216.74			1	Z		

Explanation								
Code	Description							
D	Date is accurate to the Day							
62610	Groundwater level above NGVD 1929, feet							
62611	Groundwater level above NAVD 1988, feet							
72019	Depth to water level, feet below land surface							
NAVD88	North American Vertical Datum of 1988							
NGVD29	National Geodetic Vertical Datum of 1929							
1	Static							
Z	Other.							
	Not determined							
	Not determined							
	D 62610 62611 72019 NAVD88 NGVD29							

Approved for publication -- Processing and review completed.

Questions or Comments Automated retrievals <u>Help</u> Data Tips **Explanation of terms** Subscribe for system changes <u>News</u>

Water-level approval status

Privacy Accessibility FOIA Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey Title: Groundwater for USA: Water Levels

URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u>

Page Last Modified: 2024-01-08 14:37:51 EST 0.38 0.29 nadww02





Appendix C: Laboratory Analytical Reports

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 3/29/2024 12:50:47 PM

JOB DESCRIPTION

Anderson Ranch Unit #13 Lea County NM

JOB NUMBER

880-40528-1

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 3/29/2024 12:50:47 PM

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

Client: Crain Environmental

Project/Site: Anderson Ranch Unit #13

Laboratory Job ID: 880-40528-1

SDG: Lea County NM

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	13
QC Sample Results	14
QC Association Summary	20
Lab Chronicle	24
Certification Summary	28
Method Summary	29
Sample Summary	30
Chain of Custody	31
Receipt Checklists	32

3

_

6

8

10

11

13

14

Definitions/Glossary

Client: Crain Environmental Job ID: 880-40528-1

SDG: Lea County NM

Project/Site: Anderson Ranch Unit #13

Qualifiers

GC VOA

Qualifier **Qualifier Description**

S1+ Surrogate recovery exceeds control limits, high biased. Indicates the analyte was analyzed for but not detected. U

GC Semi VOA

Qualifier **Qualifier Description**

U Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

Metals

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier **Qualifier Description**

HF Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.

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)

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

EPA recommended "Maximum Contaminant Level" MCL 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 MOI

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present

PQL **Practical Quantitation Limit**

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Eurofins Midland

Case Narrative

Client: Crain Environmental Project: Anderson Ranch Unit #13

Job ID: 880-40528-1

Eurofins Midland Job ID: 880-40528-1

Job Narrative 880-40528-1

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
- 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 3/8/2024 2:30 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.7°C.

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-75297 and analytical batch 880-75462 was outside the upper control limits.

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

Method 300 ORGFM 28D: The instrument blank/CCB for analytical batch 860-151762 contained Chloride greater than the method detection limit (MDL), and were not reanalyzed because associated sample(s) results were greater than 10X the value found in the instrument blank/CCB. The data have been reported.

Method 300_ORGFM_28D: The instrument blank/CCB for analytical batch 860-151762 contained Chloride greater than the method detection limit (MDL), and were not reanalyzed because none of the samples associated with this CCB contained the target compound. The data have been reported.

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

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

General Chemistry

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

Eurofins Midland

Job ID: 880-40528-1

SDG: Lea County NM

Client Sample ID: S-1 (1')

Project/Site: Anderson Ranch Unit #13

Client: Crain Environmental

Date Collected: 03/05/24 11:55 Date Received: 03/08/24 14:30 Lab Sample ID: 880-40528-1

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/11/24 14:34	03/13/24 13:04	1
Toluene	< 0.00199	U	0.00199		mg/Kg		03/11/24 14:34	03/13/24 13:04	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		03/11/24 14:34	03/13/24 13:04	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/11/24 14:34	03/13/24 13:04	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		03/11/24 14:34	03/13/24 13:04	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/11/24 14:34	03/13/24 13:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130				03/11/24 14:34	03/13/24 13:04	
1,4-Difluorobenzene (Surr)	99		70 - 130				03/11/24 14:34	03/13/24 13:04	1
Method: TAL SOP Total BTEX	C - Total BTE	X Calcula	tion						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/13/24 13:04	1
Method: SW846 8015 NM - Di	esel Range	Organics ((DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	61.4		49.6		mg/Kg			03/11/24 10:32	1
Method: SW846 8015B NM - [Diesel Range	e Organics	(DRO) (GC)						
Analyte	_	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.6	U	49.6		mg/Kg		03/11/24 09:17	03/11/24 10:32	1
(GRO)-C6-C10									
Diesel Range Organics (Over	61.4		49.6		mg/Kg		03/11/24 09:17	03/11/24 10:32	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		03/11/24 09:17	03/11/24 10:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130				03/11/24 09:17	03/11/24 10:32	1
o-Terphenyl	96		70 - 130				03/11/24 09:17	03/11/24 10:32	1
Method: EPA 300.0 - Anions,	Ion Chroma	tography -	- Soluble						
Analyte		Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fac

Client Sample ID: S-1 (2')

Date Collected: 03/05/24 11:59

Lab Sample ID: 880-40528-2

Matrix: Solid

25.2

mg/Kg

741

Date Received: 03/08/24 14:30

Chloride

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		03/11/24 14:34	03/13/24 13:25	1
Toluene	0.00206		0.00198		mg/Kg		03/11/24 14:34	03/13/24 13:25	1
Ethylbenzene	0.00233		0.00198		mg/Kg		03/11/24 14:34	03/13/24 13:25	1
m-Xylene & p-Xylene	0.00754		0.00396		mg/Kg		03/11/24 14:34	03/13/24 13:25	1
o-Xylene	0.00561		0.00198		mg/Kg		03/11/24 14:34	03/13/24 13:25	1
Xylenes, Total	0.0132		0.00396		mg/Kg		03/11/24 14:34	03/13/24 13:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				03/11/24 14:34	03/13/24 13:25	1
1,4-Difluorobenzene (Surr)	97		70 - 130				03/11/24 14:34	03/13/24 13:25	1

Eurofins Midland

03/12/24 23:09

Job ID: 880-40528-1 SDG: Lea County NM

Client: Crain Environmental

Project/Site: Anderson Ranch Unit #13

Lab Sample ID: 880-40528-2

Matrix: Solid

Client Sample ID: S-1 (2') Date Collected: 03/05/24 11:59

Date Received: 03/08/24 14:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	0.0175		0.00396		mg/Kg			03/13/24 13:25	
Method: SW846 8015 NM - Die	esel Range (Organics (DRO) (GC)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	114		50.5		mg/Kg			03/11/24 11:36	
Method: SW846 8015B NM - D	iesel Range	Organics	(DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		03/11/24 09:17	03/11/24 11:36	
Diesel Range Organics (Over C10-C28)	114		50.5		mg/Kg		03/11/24 09:17	03/11/24 11:36	
OII Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		03/11/24 09:17	03/11/24 11:36	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	88		70 - 130				03/11/24 09:17	03/11/24 11:36	-
o-Terphenyl	93		70 - 130				03/11/24 09:17	03/11/24 11:36	

Result Qualifier 5.01 03/11/24 13:25 Chloride 515 mg/Kg Lab Sample ID: 880-40528-3

Client Sample ID: S-2 (T-1) 1'

Date Collected: 03/05/24 11:50 **Matrix: Solid** Date Received: 03/08/24 14:30 Method: EPA 300 0 - Anions Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	849		9.98		mg/Kg		03/26/24 17:05	03/28/24 10:43	1
Method: LA 29B SAR - Sodium A	Adsorptio	n Ratio							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium Adsorption Ratio	4.56		0.100		NONE		03/14/24 17:36	03/15/24 15:11	1
Exchangeable Sodium	5.18		0.100		%		03/14/24 17:36	03/15/24 15:11	1
Percentage									
General Chemistry - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	7.7	HF			SU			03/13/24 16:00	1
Temperature (SW846 9045D)	21.2	HF			Deg. C			03/13/24 16:00	1
Electrical Conductivity (SM 2510B)	4.31		0.0100		ds/m			03/13/24 15:48	1

Cilent Sample ID: 5-3 (1-2) 1 Date Collected: 03/05/24 11:53 **Matrix: Solid**

Date Received: 03/08/24 14:30

Released to Imaging: 6/16/2025 10:05:18 AM

Method: EPA 300.0 - Anio	ons, Ion Chroma	tography							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg		03/26/24 17:05	03/28/24 13:28	1
Method: LA 29B SAR - So	odium Adsorptio	n Ratio							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium Adsorption Ratio	<0.100	U	0 100		NONE		03/14/24 17:36	03/15/24 15:11	1

Eurofins Midland

Client: Crain Environmental

Project/Site: Anderson Ranch Unit #13

Lab Sample ID: 880-40528-4

Matrix: Solid

Job ID: 880-40528-1

SDG: Lea County NM

Client Sample	ID:	S-3	(T-2)	1'
Date Collected: 0	3/05	/24 1	1:53	

Date	Conected.	03/03/24 11.33
Date	Received:	03/08/24 14:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Exchangeable Sodium Percentage	<0.100	U	0.100		%		03/14/24 17:36	03/15/24 15:11	1
General Chemistry - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	8.5	HF			SU			03/12/24 14:38	1
Temperature (SW846 9045D)	21.2	HF			Deg. C			03/12/24 14:38	1
Electrical Conductivity (SM 2510B)	0.157		0.0100		ds/m			03/13/24 15:48	4

Lab Sample ID: 880-40528-5 Client Sample ID: S-4 (1') Date Collected: 03/05/24 12:15

Date Received: 03/08/24 14:30

Lab Gampic ID. 000-40020-0	,
Matrix: Solid	k

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		03/11/24 14:34	03/13/24 13:45	1
Toluene	0.00301		0.00201		mg/Kg		03/11/24 14:34	03/13/24 13:45	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/11/24 14:34	03/13/24 13:45	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/11/24 14:34	03/13/24 13:45	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/11/24 14:34	03/13/24 13:45	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/11/24 14:34	03/13/24 13:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				03/11/24 14:34	03/13/24 13:45	1
1,4-Difluorobenzene (Surr)	111		70 - 130				03/11/24 14:34	03/13/24 13:45	1

	- Total BTE	X Calculat	ion						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			03/13/24 13:45	1

Method: SW846 8015 NM - Diese	l Range	Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	50.3		49.7		mg/Kg			03/11/24 11:58	1

Iotal IPH -	50.3		49.7		ilig/Ng			03/11/24 11.30	'
Method: SW846 8015B NM - D	iesel Range	Organics	(DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		03/11/24 09:17	03/11/24 11:58	1
Diesel Range Organics (Over C10-C28)	50.3		49.7		mg/Kg		03/11/24 09:17	03/11/24 11:58	1
Oll Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		03/11/24 09:17	03/11/24 11:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130				03/11/24 09:17	03/11/24 11:58	1
o-Terphenyl	93		70 - 130				03/11/24 09:17	03/11/24 11:58	1

Method: EPA 300.0 - Anions, Id	on Chromat	ography - S	Soluble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	41.0		4.97		mg/Kg			03/11/24 13:29	1

Eurofins Midland

Client: Crain Environmental

Job ID: 880-40528-1

Project/Site: Anderson Ranch Unit #13

Job ID: 880-40528-1

SDG: Lea County NM

Client Sample ID: S-4 (2')

Lab Sample ID: 880-40528-6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/11/24 14:34	03/13/24 14:05	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/11/24 14:34	03/13/24 14:05	1
Ethylbenzene	< 0.00202	U	0.00202		mg/Kg		03/11/24 14:34	03/13/24 14:05	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		03/11/24 14:34	03/13/24 14:05	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/11/24 14:34	03/13/24 14:05	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		03/11/24 14:34	03/13/24 14:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130				03/11/24 14:34	03/13/24 14:05	1
1,4-Difluorobenzene (Surr)	108		70 - 130				03/11/24 14:34	03/13/24 14:05	1
Method: TAL SOP Total BTEX	(- Total BTE	X Calculat	ion						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			03/13/24 14:05	1
_									
Method: SW846 8015 NM - Di	_	•	, , ,	MDI	11-14	_	Duamanad	Amahamad	Dil Faa
Analyte	Result	Qualifier		MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
	_	Qualifier	, , ,	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 03/11/24 12:19	
Analyte	Result <49.9	Qualifier U	RL 49.9	MDL		<u>D</u>	Prepared		Dil Fac
Analyte Total TPH Method: SW846 8015B NM - E Analyte	Result <49.9	Qualifier U	RL 49.9			<u>D</u>	Prepared Prepared		1
Analyte Total TPH Method: SW846 8015B NM - [Result <49.9	Qualifier U Organics Qualifier	RL 49.9 (DRO) (GC)		mg/Kg	_ =	<u> </u>	03/11/24 12:19	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - E Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9 Diesel Range Result	Qualifier U Organics Qualifier U	49.9 (DRO) (GC)		mg/Kg Unit	_ =	Prepared	03/11/24 12:19 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - E Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.9 Diesel Range Result <49.9	Qualifier U Organics Qualifier U	RL 49.9 (DRO) (GC) RL 49.9		mg/Kg Unit mg/Kg	_ =	Prepared 03/11/24 09:17	03/11/24 12:19 Analyzed 03/11/24 12:19 03/11/24 12:19	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - E Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9 Diesel Range Result <49.9 <49.9 <49.9 <49.9	Qualifier U Organics Qualifier U U	RL 49.9 (DRO) (GC) RL 49.9		mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 03/11/24 09:17 03/11/24 09:17	03/11/24 12:19 Analyzed 03/11/24 12:19 03/11/24 12:19	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - E Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result	Qualifier U Organics Qualifier U U	RL 49.9 (DRO) (GC) RL 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 03/11/24 09:17 03/11/24 09:17 03/11/24 09:17	03/11/24 12:19 Analyzed 03/11/24 12:19 03/11/24 12:19 03/11/24 12:19	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - December 2015 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result <49.9 Diesel Range Result <49.9 <49.9 <49.9 %Recovery	Qualifier U Organics Qualifier U U	RL 49.9 (DRO) (GC) RL 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 03/11/24 09:17 03/11/24 09:17 03/11/24 09:17 Prepared	03/11/24 12:19 Analyzed 03/11/24 12:19 03/11/24 12:19 03/11/24 12:19 Analyzed 03/11/24 12:19	Dil Fac 1 1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - E Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <49.9	Qualifier U Organics Qualifier U U U Qualifier	RL 49.9 (DRO) (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130		mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 03/11/24 09:17 03/11/24 09:17 03/11/24 09:17 Prepared 03/11/24 09:17	03/11/24 12:19 Analyzed 03/11/24 12:19 03/11/24 12:19 03/11/24 12:19 Analyzed 03/11/24 12:19	Dil Fac

Client Sample ID: S-5 (1')

Date Collected: 03/05/24 12:03

Lab Sample ID: 880-40528-7

Matrix: Solid

4.99

mg/Kg

94.3

Date Received: 03/08/24 14:30

Chloride

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/11/24 14:34	03/13/24 14:26	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/11/24 14:34	03/13/24 14:26	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/11/24 14:34	03/13/24 14:26	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/11/24 14:34	03/13/24 14:26	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/11/24 14:34	03/13/24 14:26	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/11/24 14:34	03/13/24 14:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130				03/11/24 14:34	03/13/24 14:26	1
1,4-Difluorobenzene (Surr)	109		70 - 130				03/11/24 14:34	03/13/24 14:26	1

Eurofins Midland

03/11/24 13:34

2

3

6

8

10

12

13

_ ._ _

Job ID: 880-40528-1

Client: Crain Environmental Project/Site: Anderson Ranch Unit #13 SDG: Lea County NM

Client Sample ID: S-5 (1')

Lab Sample ID: 880-40528-7 Date Collected: 03/05/24 12:03 Date Received: 03/08/24 14:30

Matrix: Solid

Method: TAL SOP Total BTEX - Total	al B	STEX	C	alculation
	_		_	

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			03/13/24 14:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<49.8	U	49.8		ma/Ka			03/11/24 12:40	1	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		03/11/24 09:17	03/11/24 12:40	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		03/11/24 09:17	03/11/24 12:40	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/11/24 09:17	03/11/24 12:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

1-Chlorooctane	115	70 - 130
o-Terphenyl	123	70 - 130

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit)	Prepared	Analyzed	Dil Fac
Chloride	87.3		5.03		mg/Kg				03/11/24 13:47	1

Client Sample ID: S-5 (2')

Date Collected: 03/05/24 12:07

Date Received: 03/08/24 14:30

Released to Imaging: 6/16/2025 10:05:18 AM

Lab Sample ID: 880-40528-8

03/11/24 09:17 03/11/24 12:40 03/11/24 09:17 03/11/24 12:40

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		03/11/24 14:34	03/13/24 14:46	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/11/24 14:34	03/13/24 14:46	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/11/24 14:34	03/13/24 14:46	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		03/11/24 14:34	03/13/24 14:46	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/11/24 14:34	03/13/24 14:46	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		03/11/24 14:34	03/13/24 14:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130				03/11/24 14:34	03/13/24 14:46	1

Surrogate	%Recovery Quain	ier Limits	Prepared	Anaiyzea	DII Fac
4-Bromofluorobenzene (Surr)	123	70 - 130	03/11/24 14:34	03/13/24 14:46	1
1,4-Difluorobenzene (Surr)	108	70 - 130	03/11/24 14:34	03/13/24 14:46	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg		_	03/13/24 14:46	1

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

Analyte	_	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2		mg/Kg			03/11/24 13:01	1

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

	2 .000ag.	, - . ga	(=:(=)(==)					
Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.2	U	50.2	mg/Kg		03/11/24 09:17	03/11/24 13:01	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.2	U	50.2	mg/Kg		03/11/24 09:17	03/11/24 13:01	1
C10-C28)								

Client: Crain Environmental

Client Sample ID: S-5 (2')

Project/Site: Anderson Ranch Unit #13

Lab Sample ID: 880-40528-8

Matrix: Solid

Job ID: 880-40528-1

SDG: Lea County NM

Date Collected: 03/0	5/24 12:07	
Date Received: 03/08	3/24 14:30	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		03/11/24 09:17	03/11/24 13:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130				03/11/24 09:17	03/11/24 13:01	1
o-Terphenyl	107		70 - 130				03/11/24 09:17	03/11/24 13:01	1

Method: EPA 300.0 - Anions, I	on Chromatography - S	oluble					
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	49.9	5.01	mg/Kg			03/11/24 13:51	1

Client Sample ID: S-6 (1') Lab Sample ID: 880-40528-9

Date Collected: 03/05/24 11:44	Matrix: Solid
Date Received: 03/08/24 14:30	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/11/24 14:34	03/13/24 15:07	1
Toluene	0.00238		0.00200		mg/Kg		03/11/24 14:34	03/13/24 15:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/11/24 14:34	03/13/24 15:07	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		03/11/24 14:34	03/13/24 15:07	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/11/24 14:34	03/13/24 15:07	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		03/11/24 14:34	03/13/24 15:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130				03/11/24 14:34	03/13/24 15:07	1
1,4-Difluorobenzene (Surr)	103		70 - 130				03/11/24 14:34	03/13/24 15:07	1

Method: TAL SOP Total BTEX	- Total BTE	X Calculat	ion						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			03/13/24 15:07	1

Method: SW846 8015 NM - Die	sel Range (Organics (I	DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	339		50.4		mg/Kg			03/11/24 13:23	1

	000		00.1		mg/rtg			00/11/21 10:20	•
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	<50.4	U	50.4		mg/Kg	<u> </u>	03/11/24 09:17	03/11/24 13:23	1
Diesel Range Organics (Over C10-C28)	339		50.4		mg/Kg		03/11/24 09:17	03/11/24 13:23	1
Oll Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		03/11/24 09:17	03/11/24 13:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130				03/11/24 09:17	03/11/24 13:23	1
o-Terphenyl	95		70 - 130				03/11/24 09:17	03/11/24 13:23	1

Method: EPA 300.0 - Anions, Id	on Chromatogra	phy - Soluble					
Analyte	Result Quali	ifier RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	178	5.02	mg/K	g –		03/11/24 14:05	1

Client: Crain Environmental

Client Sample ID: S-6 (2') Date Collected: 03/05/24 11:48

Date Received: 03/08/24 14:30

Project/Site: Anderson Ranch Unit #13

Job ID: 880-40528-1

SDG: Lea County NM

Lab Sample ID: 880-40528-10

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00199	U	0.00199		mg/Kg		03/11/24 14:34	03/13/24 15:27	
Toluene	< 0.00199	U	0.00199		mg/Kg		03/11/24 14:34	03/13/24 15:27	•
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		03/11/24 14:34	03/13/24 15:27	•
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/11/24 14:34	03/13/24 15:27	· · · · · · · · ·
o-Xylene	< 0.00199	U	0.00199		mg/Kg		03/11/24 14:34	03/13/24 15:27	•
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/11/24 14:34	03/13/24 15:27	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130				03/11/24 14:34	03/13/24 15:27	
1,4-Difluorobenzene (Surr)	104		70 - 130				03/11/24 14:34	03/13/24 15:27	1
Method: TAL SOP Total BTEX	- Total BTE	X Calculat	ion						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/13/24 15:27	ĺ
Total BTEX Method: SW846 8015 NM - Did					mg/Kg			03/13/24 15:27	1
	esel Range (MDL	Unit	D	Prepared	03/13/24 15:27 Analyzed	
Method: SW846 8015 NM - Did	esel Range (Organics (DRO) (GC)	MDL		<u>D</u>	Prepared		Dil Fac
Method: SW846 8015 NM - Did Analyte	esel Range (Result	Organics (Qualifier	DRO) (GC) RL 50.5	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Did Analyte Total TPH	esel Range (Result 356	Organics (Qualifier	DRO) (GC) RL 50.5	MDL MDL	Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Did Analyte Total TPH Method: SW846 8015B NM - D Analyte Gasoline Range Organics	esel Range (Result 356	Organics (Qualifier Organics Qualifier Qualifier	DRO) (GC) RL 50.5 (DRO) (GC)		Unit mg/Kg	_ =	<u> </u>	Analyzed 03/11/24 13:45	Dil Fac
Method: SW846 8015 NM - Did Analyte Total TPH Method: SW846 8015B NM - Did Analyte Gasoline Range Organics (GRO)-C6-C10	Result 356 Diesel Range Result <a blue:="" blue:<="" color:="" href="mailto:color: blue: " result="" td="" the="" to=""><td>Organics (Qualifier Organics Qualifier Qualifier</td><td>DRO) (GC) RL 50.5 (DRO) (GC) RL</td><td></td><td>Unit mg/Kg Unit mg/Kg</td><td>_ =</td><td>Prepared</td><td>Analyzed 03/11/24 13:45 Analyzed</td><td>Dil Fac</td>	Organics (Qualifier Organics Qualifier Qualifier	DRO) (GC) RL 50.5 (DRO) (GC) RL		Unit mg/Kg Unit mg/Kg	_ =	Prepared	Analyzed 03/11/24 13:45 Analyzed	Dil Fac
Method: SW846 8015 NM - Did Analyte Total TPH Method: SW846 8015B NM - D Analyte Gasoline Range Organics	esel Range (Result 356 Diesel Range Result	Organics (Qualifier Organics Qualifier Qualifier	DRO) (GC) RL 50.5 (DRO) (GC) RL 50.5		Unit mg/Kg Unit	_ =	Prepared 03/11/24 09:17	Analyzed 03/11/24 13:45 Analyzed 03/11/24 13:45	Dil Fac
Method: SW846 8015 NM - Did Analyte Total TPH Method: SW846 8015B NM - Did Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result 356 Diesel Range Result <a blue:="" blue:<="" color:="" href="mailto:color: blue: " result="" td="" the="" to=""><td>Organics (Qualifier Organics Qualifier U</td><td>DRO) (GC) RL 50.5 (DRO) (GC) RL 50.5</td><td></td><td>Unit mg/Kg Unit mg/Kg</td><td>_ =</td><td>Prepared 03/11/24 09:17 03/11/24 09:17</td><td>Analyzed 03/11/24 13:45 Analyzed 03/11/24 13:45</td><td>Dil Fac</td>	Organics (Qualifier Organics Qualifier U	DRO) (GC) RL 50.5 (DRO) (GC) RL 50.5		Unit mg/Kg Unit mg/Kg	_ =	Prepared 03/11/24 09:17 03/11/24 09:17	Analyzed 03/11/24 13:45 Analyzed 03/11/24 13:45	Dil Fac
Method: SW846 8015 NM - Did Analyte Total TPH Method: SW846 8015B NM - Did Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result 356 Diesel Range Result Result < 50.5 356	Organics (Qualifier Organics Qualifier U	DRO) (GC) RL 50.5 (DRO) (GC) RL 50.5 50.5		Unit mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 03/11/24 09:17 03/11/24 09:17	Analyzed 03/11/24 13:45 Analyzed 03/11/24 13:45 03/11/24 13:45	Dil Fac
Method: SW846 8015 NM - Did Analyte Total TPH Method: SW846 8015B NM - Did Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result 356 Olesel Range Result < 50.5 < 50.5	Organics (Qualifier Organics Qualifier U	DRO) (GC) RL 50.5 (DRO) (GC) RL 50.5 50.5		Unit mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 03/11/24 09:17 03/11/24 09:17 03/11/24 09:17	Analyzed 03/11/24 13:45 Analyzed 03/11/24 13:45 03/11/24 13:45 03/11/24 13:45	Dil Fac

RL

4.97

MDL Unit

mg/Kg

Prepared

Analyzed

03/11/24 14:09

Dil Fac

Result Qualifier

270

Analyte

Chloride

Surrogate Summary

Client: Crain Environmental Job ID: 880-40528-1
Project/Site: Anderson Ranch Unit #13 SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

			Percent Surrogate Recovery (Acceptance Lim	its)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-40528-1	S-1 (1')	88	99	
880-40528-1 MS	S-1 (1')	107	109	
880-40528-1 MSD	S-1 (1')	108	106	
880-40528-2	S-1 (2')	102	97	
880-40528-5	S-4 (1')	105	111	
880-40528-6	S-4 (2')	118	108	
880-40528-7	S-5 (1')	118	109	
880-40528-8	S-5 (2')	123	108	
880-40528-9	S-6 (1')	118	103	
880-40528-10	S-6 (2')	116	104	
LCS 880-75297/1-A	Lab Control Sample	99	95	
LCSD 880-75297/2-A	Lab Control Sample Dup	107	102	
MB 880-75297/5-A	Method Blank	144 S1+	128	

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 Recove	ry (Acceptance Limits)
		1CO1	ОТРН1	
Lab Sample ID	Client Sample ID	(70-130)	70-130)	
880-40528-1	S-1 (1')	89	96	
880-40528-1 MS	S-1 (1')	93	89	
880-40528-1 MSD	S-1 (1')	91	87	
880-40528-2	S-1 (2')	88	93	
880-40528-5	S-4 (1')	88	93	
880-40528-6	S-4 (2')	91	96	
880-40528-7	S-5 (1')	115	123	
880-40528-8	S-5 (2')	100	107	
880-40528-9	S-6 (1')	91	95	
880-40528-10	S-6 (2')	85	91	
LCS 880-75212/2-A	Lab Control Sample	89	98	
LCSD 880-75212/3-A	Lab Control Sample Dup	84	91	
MB 880-75212/1-A	Method Blank	88	99	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Lab Sample ID: MB 880-75297/5-A

Client: Crain Environmental Project/Site: Anderson Ranch Unit #13

Job ID: 880-40528-1 SDG: Lea County NM

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 75297

Matrix: Solid	
Analysis Batch: 75462	

Method: 8021B - Volatile Organic Compounds (GC)

_	MB	МВ						•	
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/11/24 14:34	03/13/24 12:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/11/24 14:34	03/13/24 12:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/11/24 14:34	03/13/24 12:35	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/11/24 14:34	03/13/24 12:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/11/24 14:34	03/13/24 12:35	1
Xvlenes. Total	<0.00400	U	0.00400		mg/Kg		03/11/24 14:34	03/13/24 12:35	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	144	S1+	70 - 130	03/11/24 14:34	03/13/24 12:35	1
1,4-Difluorobenzene (Surr)	128		70 - 130	03/11/24 14:34	03/13/24 12:35	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 75297

Prep Type: Total/NA

Prep Batch: 75297

Lab Sample ID: LCS 880-75297/1-A Matrix: Solid **Analysis Batch: 75462**

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1171		mg/Kg		117	70 - 130	
Toluene	0.100	0.1079		mg/Kg		108	70 - 130	
Ethylbenzene	0.100	0.1197		mg/Kg		120	70 - 130	
m-Xylene & p-Xylene	0.200	0.2198		mg/Kg		110	70 - 130	
o-Xylene	0.100	0.1030		mg/Kg		103	70 - 130	
· ·				0 0				

LCS LCS

Surrogate	%Recovery Qualifier	r Limits
4-Bromofluorobenzene (Surr)	99	70 - 130
1,4-Difluorobenzene (Surr)	95	70 - 130

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Lab Sample ID: LCSD 880-75297/2-A

Analysis Batch: 75462

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1184		mg/Kg		118	70 - 130	1	35
Toluene	0.100	0.1046		mg/Kg		105	70 - 130	3	35
Ethylbenzene	0.100	0.1112		mg/Kg		111	70 - 130	7	35
m-Xylene & p-Xylene	0.200	0.2355		mg/Kg		118	70 - 130	7	35
o-Xvlene	0 100	0.1116		ma/Ka		112	70 - 130	8	35

LCSD LCSD

Surrogate	%Recovery Quality	fier Limits
4-Bromofluorobenzene (Surr)	107	70 - 130
1,4-Difluorobenzene (Surr)	102	70 - 130

Lab Sample ID: 880-40528-1 MS

									pe: Total/NA Batch: 75297
Sample	Sample	Spike	MS	MS				%Rec	
Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
<0.00199	U	0.0996	0.1000		mg/Kg		100	70 - 130	
<0.00199	U	0.0996	0.08739		mg/Kg		87	70 - 130	
	Result <0.00199	Sample Sample	Result Qualifier Added	Result Qualifier Added Result <0.00199	Result Qualifier Added Result Qualifier <0.00199	Result <0.00199Qualifier UAdded 0.0996Result 	Result Qualifier Added Result Qualifier Unit D <0.00199	Result Qualifier Added Result Qualifier Unit D %Rec <0.00199	Sample Sample Spike MS MS MS %Rec Result Qualifier Added Result Qualifier Unit D %Rec Limits <0.00199

Eurofins Midland

Client Sample ID: S-1 (1')

Page 14 of 33

QC Sample Results

Client: Crain Environmental Job ID: 880-40528-1 Project/Site: Anderson Ranch Unit #13 SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-40528-1 MS Client Sample ID: S-1 (1') **Matrix: Solid Prep Type: Total/NA**

Analysis Batch: 75462 Prep Batch: 75297 Spike Sample Sample

	Sample	Janipie	Spike	IVIO	IVIO				/01 \C C		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Ethylbenzene	<0.00199	U	0.0996	0.07601		mg/Kg		76	70 - 130		
m-Xylene & p-Xylene	<0.00398	U	0.199	0.1753		mg/Kg		88	70 - 130		
o-Xylene	<0.00199	U	0.0996	0.08741		mg/Kg		87	70 - 130		

MS MS Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 70 - 130 107 1,4-Difluorobenzene (Surr) 109 70 - 130

Lab Sample ID: 880-40528-1 MSD Client Sample ID: S-1 (1') **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 75462

Prep Batch: 75297 Sample Sample Spike MSD MSD %Rec **RPD** Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit <0.00199 U 0.100 0.1141 114 70 - 130 13 35 Benzene mg/Kg Toluene <0.00199 U 0.09425 93 70 - 130 35 0.100 8

mg/Kg Ethylbenzene <0.00199 U 0.100 0.08847 mg/Kg 88 70 - 130 15 35 m-Xylene & p-Xylene <0.00398 U 0.200 0.1746 mg/Kg 87 70 - 130 0 35 <0.00199 U 0.100 0.08605 85 2 o-Xylene mg/Kg 70 - 13035

MSD MSD Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 70 - 130 108 1,4-Difluorobenzene (Surr) 106 70 - 130

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

Lab Sample ID: MB 880-75212/1-A **Client Sample ID: Method Blank Matrix: Solid** Prep Type: Total/NA Prep Batch: 75212

Analysis Batch: 75200

MB MB Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac Gasoline Range Organics <50.0 U 50.0 03/11/24 07:45 03/11/24 08:02 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg 03/11/24 07:45 03/11/24 08:02

C10-C28) Oll Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 03/11/24 07:45 03/11/24 08:02

MB MB Qualifier Surrogate %Recovery Limits Prepared Dil Fac Analyzed 1-Chlorooctane 70 - 130 03/11/24 07:45 03/11/24 08:02 88 70 - 130 03/11/24 07:45 03/11/24 08:02 o-Terphenyl 99

Lab Sample ID: LCS 880-75212/2-A **Client Sample ID: Lab Control Sample**

Matrix: Solid Prep Type: Total/NA Analysis Batch: 75200 Prep Batch: 75212

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	1009		mg/Kg		101	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1045		mg/Kg		104	70 - 130	
C10-C28)								

Client: Crain Environmental Job ID: 880-40528-1 Project/Site: Anderson Ranch Unit #13 SDG: Lea County NM

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

Lab Sample ID: LCS 880-75212/2-A

Matrix: Solid

Analysis Batch: 75200

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 75212

LCS LCS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 89 70 - 130 o-Terphenyl 98 70 - 130

Lab Sample ID: LCSD 880-75212/3-A

Matrix: Solid

Analysis Batch: 75200

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 75212

RPD LCSD LCSD %Rec Spike Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Gasoline Range Organics 1000 987.5 mg/Kg 99 70 - 130 2 20 (GRO)-C6-C10 Diesel Range Organics (Over 1000 980.8 mg/Kg 98 70 - 130 6 20 C10-C28)

LCSD LCSD

%Recovery Qualifier Surrogate Limits 1-Chlorooctane 84 70 - 130 70 - 130 o-Terphenyl 91

Lab Sample ID: 880-40528-1 MS

Matrix: Solid

Analysis Batch: 75200

Client Sample ID: S-1 (1')

Prep Type: Total/NA

Prep Batch: 75212

Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier Limits Analyte Unit D %Rec Gasoline Range Organics Ū <49.6 1010 862.8 mg/Kg 83 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over 1010 61.4 864.4 mg/Kg 80 70 - 130 C10-C28)

MS MS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 70 - 130 93 o-Terphenyl 89 70 - 130

Lab Sample ID: 880-40528-1 MSD

Matrix: Solid

Analysis Batch: 75200

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

Prep Batch: 75212

%Rec **RPD**

Sample Sample Spike MSD MSD Result Qualifier Added Result Qualifier Limits **RPD** Limit **Analyte** Unit D %Rec Gasoline Range Organics <49.6 U 1010 857.5 83 70 - 130 20 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 61.4 1010 841.0 mg/Kg 77 70 - 130 3 20

C10-C28)

MSD MSD

%Recovery Qualifier Limits Surrogate 1-Chlorooctane 91 70 - 130 o-Terphenyl 87 70 - 130

Released to Imaging: 6/16/2025 10:05:18 AM

Client: Crain Environmental Job ID: 880-40528-1 Project/Site: Anderson Ranch Unit #13

SDG: Lea County NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-151711/28-A Client Sample ID: Method Blank

Matrix: Solid Prep Type: Total/NA

Analysis Batch: 151762 Prep Batch: 151711 MB MB

Result Qualifier RL **MDL** Unit Analyzed Dil Fac Analyte Prepared 10.0 03/26/24 17:05 03/27/24 17:44 Chloride <10.0 U mg/Kg

Lab Sample ID: MB 860-151711/55-A Client Sample ID: Method Blank

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 151762 Prep Batch: 151711** MB MB

Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac Analyte 10.0 03/26/24 17:05 03/28/24 11:37 Chloride <10.0 LJ mg/Kg

Lab Sample ID: LCS 860-151711/29-A **Client Sample ID: Lab Control Sample Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 151762 Prep Batch: 151711 Spike LCS LCS %Rec

Added Result Qualifier Limits Analyte Unit %Rec Chloride 100 96.65 97 80 - 120 mg/Kg

Lab Sample ID: LCS 860-151711/56-A **Client Sample ID: Lab Control Sample Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 151762 Prep Batch: 151711 Spike LCS LCS

%Rec Added Analyte Result Qualifier Unit %Rec Limits

Chloride 100 96.28 80 - 120 mg/Kg

Lab Sample ID: LCSD 860-151711/30-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 151762 **Prep Batch: 151711** LCSD LCSD %Rec Spike **RPD** Analyte Added Result Qualifier Limits RPD Unit %Rec Limit

Chloride 100 96.82 97 80 - 120 mg/Kg

Lab Sample ID: LCSD 860-151711/57-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 151762 Prep Batch: 151711 Spike LCSD LCSD %Rec **RPD**

Added Result Qualifier Limits **RPD** Limit Analyte Unit %Rec D 100 80 - 120 Chloride 96.51 mg/Kg

Lab Sample ID: 880-40528-4 MS Client Sample ID: S-3 (T-2) 1'

Matrix: Solid Prep Type: Total/NA Analysis Batch: 151762 Prep Batch: 151711

Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier Unit D Limits Analyte %Rec 80 - 120 Chloride <10.0 U 101 92 97.79 mg/Kg

Lab Sample ID: 880-40528-4 MSD Client Sample ID: S-3 (T-2) 1' **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 151762 Prep Batch: 151711 Spike Sample Sample MSD MSD %Rec **RPD**

Result Qualifier Added Limits **RPD** Analyte Result Qualifier Unit %Rec Limit Chloride <10.0 U 100 80 - 120 97.68 mg/Kg 92

Client: Crain Environmental Job ID: 880-40528-1 Project/Site: Anderson Ranch Unit #13

SDG: Lea County NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-75203/1-A

Client Sample ID: Method Blank

D %Rec

Prep Type: Soluble

%Rec

Limits

Client Sample ID: S-4 (2')

Prep Type: Soluble

Analysis Batch: 75240

Matrix: Solid

MB MB

Analyte	Result Qu	ualifier RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00 U	5.00	mg/Kg			03/11/24 12:18	1

Client Sample ID: Lab Control Sample Lab Sample ID: LCS 880-75203/2-A **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 75240

Spike LCS LCS Added Result Qualifier Unit Analyte

250 90 - 110 Chloride 238.0 mg/Kg 95

Lab Sample ID: LCSD 880-75203/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 75240

Spike LCSD LCSD %Rec **RPD** Added Result Qualifier Limits **RPD** Analyte Unit D %Rec Limit Chloride 250 257.5 90 - 110 20 mg/Kg

Lab Sample ID: 880-40528-6 MS Client Sample ID: S-4 (2') **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 75240

Spike MS MS %Rec Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chloride 344.5 94.3 250 mg/Kg 100 90 - 110

Lab Sample ID: 880-40528-6 MSD

Matrix: Solid

Analysis Batch: 75240

MSD MSD RPD Sample Sample Spike %Rec Analyte Result Qualifier Added Limits Result Qualifier Unit %Rec **RPD** Limit Chloride 94.3 250 366.6 109 90 - 110 mg/Kg

Lab Sample ID: MB 880-75204/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 75420

MB MB

Result Qualifier **MDL** Unit Analyte RL Dil Fac Prepared Analyzed <5.00 5.00 03/12/24 21:15 Chloride U mg/Kg

Lab Sample ID: LCS 880-75204/2-A Client Sample ID: Lab Control Sample **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 75420

Spike LCS LCS %Rec Added Result Qualifier Limits Analyte Unit %Rec Chloride 250 254.7 mg/Kg 102 90 - 110

Lab Sample ID: LCSD 880-75204/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 75420

Spike LCSD LCSD %Rec **RPD** RPD Added Limits Analyte Result Qualifier Unit %Rec Limit Chloride 250 253.7 mg/Kg 101 90 - 110

Eurofins Midland

Released to Imaging: 6/16/2025 10:05:18 AM

QC Sample Results

Client: Crain Environmental Job ID: 880-40528-1 Project/Site: Anderson Ranch Unit #13

SDG: Lea County NM

Method: SM 2510B - Conductivity, Specific Conductance

Lab Sample ID: MB 860-149578/2-A **Client Sample ID: Method Blank**

Matrix: Solid Prep Type: Soluble Analysis Batch: 149579

MB MB

Result Qualifier **MDL** Unit Dil Fac Analyte RL D Prepared Analyzed

03/13/24 15:48 **Electrical Conductivity** 0.0100 <0.0100 U ds/m

Client: Crain Environmental Project/Site: Anderson Ranch Unit #13

Job ID: 880-40528-1 SDG: Lea County NM

GC VOA

Prep Batch: 75297

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40528-1	S-1 (1')	Total/NA	Solid	5035	
880-40528-2	S-1 (2')	Total/NA	Solid	5035	
880-40528-5	S-4 (1')	Total/NA	Solid	5035	
880-40528-6	S-4 (2')	Total/NA	Solid	5035	
880-40528-7	S-5 (1')	Total/NA	Solid	5035	
880-40528-8	S-5 (2')	Total/NA	Solid	5035	
880-40528-9	S-6 (1')	Total/NA	Solid	5035	
880-40528-10	S-6 (2')	Total/NA	Solid	5035	
MB 880-75297/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-75297/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-75297/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-40528-1 MS	S-1 (1')	Total/NA	Solid	5035	
880-40528-1 MSD	S-1 (1')	Total/NA	Solid	5035	

Analysis Batch: 75462

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40528-1	S-1 (1')	Total/NA	Solid	8021B	75297
880-40528-2	S-1 (2')	Total/NA	Solid	8021B	75297
880-40528-5	S-4 (1')	Total/NA	Solid	8021B	75297
880-40528-6	S-4 (2')	Total/NA	Solid	8021B	75297
880-40528-7	S-5 (1')	Total/NA	Solid	8021B	75297
880-40528-8	S-5 (2')	Total/NA	Solid	8021B	75297
880-40528-9	S-6 (1')	Total/NA	Solid	8021B	75297
880-40528-10	S-6 (2')	Total/NA	Solid	8021B	75297
MB 880-75297/5-A	Method Blank	Total/NA	Solid	8021B	75297
LCS 880-75297/1-A	Lab Control Sample	Total/NA	Solid	8021B	75297
LCSD 880-75297/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	75297
880-40528-1 MS	S-1 (1')	Total/NA	Solid	8021B	75297
880-40528-1 MSD	S-1 (1')	Total/NA	Solid	8021B	75297

Analysis Batch: 75614

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40528-1	S-1 (1')	Total/NA	Solid	Total BTEX	
880-40528-2	S-1 (2')	Total/NA	Solid	Total BTEX	
880-40528-5	S-4 (1')	Total/NA	Solid	Total BTEX	
880-40528-6	S-4 (2')	Total/NA	Solid	Total BTEX	
880-40528-7	S-5 (1')	Total/NA	Solid	Total BTEX	
880-40528-8	S-5 (2')	Total/NA	Solid	Total BTEX	
880-40528-9	S-6 (1')	Total/NA	Solid	Total BTEX	
880-40528-10	S-6 (2')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 75200

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40528-1	S-1 (1')	Total/NA	Solid	8015B NM	75212
880-40528-2	S-1 (2')	Total/NA	Solid	8015B NM	75212
880-40528-5	S-4 (1')	Total/NA	Solid	8015B NM	75212
880-40528-6	S-4 (2')	Total/NA	Solid	8015B NM	75212
880-40528-7	S-5 (1')	Total/NA	Solid	8015B NM	75212
880-40528-8	S-5 (2')	Total/NA	Solid	8015B NM	75212

Client: Crain Environmental Job ID: 880-40528-1 Project/Site: Anderson Ranch Unit #13 SDG: Lea County NM

GC Semi VOA (Continued)

Analysis Batch: 75200 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40528-9	S-6 (1')	Total/NA	Solid	8015B NM	75212
880-40528-10	S-6 (2')	Total/NA	Solid	8015B NM	75212
MB 880-75212/1-A	Method Blank	Total/NA	Solid	8015B NM	75212
LCS 880-75212/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	75212
LCSD 880-75212/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	75212
880-40528-1 MS	S-1 (1')	Total/NA	Solid	8015B NM	75212
880-40528-1 MSD	S-1 (1')	Total/NA	Solid	8015B NM	75212

Prep Batch: 75212

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40528-1	S-1 (1')	Total/NA	Solid	8015NM Prep	
880-40528-2	S-1 (2')	Total/NA	Solid	8015NM Prep	
880-40528-5	S-4 (1')	Total/NA	Solid	8015NM Prep	
880-40528-6	S-4 (2')	Total/NA	Solid	8015NM Prep	
880-40528-7	S-5 (1')	Total/NA	Solid	8015NM Prep	
880-40528-8	S-5 (2')	Total/NA	Solid	8015NM Prep	
880-40528-9	S-6 (1')	Total/NA	Solid	8015NM Prep	
880-40528-10	S-6 (2')	Total/NA	Solid	8015NM Prep	
MB 880-75212/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-75212/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-75212/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-40528-1 MS	S-1 (1')	Total/NA	Solid	8015NM Prep	
880-40528-1 MSD	S-1 (1')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 75399

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40528-1	S-1 (1')	Total/NA	Solid	8015 NM	
880-40528-2	S-1 (2')	Total/NA	Solid	8015 NM	
880-40528-5	S-4 (1')	Total/NA	Solid	8015 NM	
880-40528-6	S-4 (2')	Total/NA	Solid	8015 NM	
880-40528-7	S-5 (1')	Total/NA	Solid	8015 NM	
880-40528-8	S-5 (2')	Total/NA	Solid	8015 NM	
880-40528-9	S-6 (1')	Total/NA	Solid	8015 NM	
880-40528-10	S-6 (2')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 75203

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40528-2	S-1 (2')	Soluble	Solid	DI Leach	
880-40528-5	S-4 (1')	Soluble	Solid	DI Leach	
880-40528-6	S-4 (2')	Soluble	Solid	DI Leach	
880-40528-7	S-5 (1')	Soluble	Solid	DI Leach	
880-40528-8	S-5 (2')	Soluble	Solid	DI Leach	
880-40528-9	S-6 (1')	Soluble	Solid	DI Leach	
880-40528-10	S-6 (2')	Soluble	Solid	DI Leach	
MB 880-75203/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-75203/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-75203/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-40528-6 MS	S-4 (2')	Soluble	Solid	DI Leach	
880-40528-6 MSD	S-4 (2')	Soluble	Solid	DI Leach	

Client: Crain Environmental

Project/Site: Anderson Ranch Unit #13

Job ID: 880-40528-1 SDG: Lea County NM

County NM

HPLC/IC

Leach Batch: 75204

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40528-1	S-1 (1')	Soluble	Solid	DI Leach	
MB 880-75204/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-75204/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-75204/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 75240

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40528-2	S-1 (2')	Soluble	Solid	300.0	75203
880-40528-5	S-4 (1')	Soluble	Solid	300.0	75203
880-40528-6	S-4 (2')	Soluble	Solid	300.0	75203
880-40528-7	S-5 (1')	Soluble	Solid	300.0	75203
880-40528-8	S-5 (2')	Soluble	Solid	300.0	75203
880-40528-9	S-6 (1')	Soluble	Solid	300.0	75203
880-40528-10	S-6 (2')	Soluble	Solid	300.0	75203
MB 880-75203/1-A	Method Blank	Soluble	Solid	300.0	75203
LCS 880-75203/2-A	Lab Control Sample	Soluble	Solid	300.0	75203
LCSD 880-75203/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	75203
880-40528-6 MS	S-4 (2')	Soluble	Solid	300.0	75203
880-40528-6 MSD	S-4 (2')	Soluble	Solid	300.0	75203

Analysis Batch: 75420

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40528-1	S-1 (1')	Soluble	Solid	300.0	75204
MB 880-75204/1-A	Method Blank	Soluble	Solid	300.0	75204
LCS 880-75204/2-A	Lab Control Sample	Soluble	Solid	300.0	75204
LCSD 880-75204/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	75204

Prep Batch: 151711

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40528-3	S-2 (T-1) 1'	Total/NA	Solid	300_Prep	
880-40528-4	S-3 (T-2) 1'	Total/NA	Solid	300_Prep	
MB 860-151711/28-A	Method Blank	Total/NA	Solid	300_Prep	
MB 860-151711/55-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 860-151711/29-A	Lab Control Sample	Total/NA	Solid	300_Prep	
LCS 860-151711/56-A	Lab Control Sample	Total/NA	Solid	300_Prep	
LCSD 860-151711/30-A	Lab Control Sample Dup	Total/NA	Solid	300_Prep	
LCSD 860-151711/57-A	Lab Control Sample Dup	Total/NA	Solid	300_Prep	
880-40528-4 MS	S-3 (T-2) 1'	Total/NA	Solid	300_Prep	
880-40528-4 MSD	S-3 (T-2) 1'	Total/NA	Solid	300_Prep	

Analysis Batch: 151762

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40528-3	S-2 (T-1) 1'	Total/NA	Solid	300.0	151711
880-40528-4	S-3 (T-2) 1'	Total/NA	Solid	300.0	151711
MB 860-151711/28-A	Method Blank	Total/NA	Solid	300.0	151711
MB 860-151711/55-A	Method Blank	Total/NA	Solid	300.0	151711
LCS 860-151711/29-A	Lab Control Sample	Total/NA	Solid	300.0	151711
LCS 860-151711/56-A	Lab Control Sample	Total/NA	Solid	300.0	151711
LCSD 860-151711/30-A	Lab Control Sample Dup	Total/NA	Solid	300.0	151711
LCSD 860-151711/57-A	Lab Control Sample Dup	Total/NA	Solid	300.0	151711
880-40528-4 MS	S-3 (T-2) 1'	Total/NA	Solid	300.0	151711

Eurofins Midland

2

3

_

6

8

10

12

13

14

Client: Crain Environmental

Project/Site: Anderson Ranch Unit #13

Job ID: 880-40528-1 SDG: Lea County NM

HPLC/IC (Continued)

Analysis Batch: 151762 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40528-4 MSD	S-3 (T-2) 1'	Total/NA	Solid	300.0	151711

Metals

Prep Batch: 149822

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40528-3	S-2 (T-1) 1'	Total/NA	Solid	29B	
880-40528-4	S-3 (T-2) 1'	Total/NA	Solid	29B	

Prep Batch: 149844

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40528-3	S-2 (T-1) 1'	Total/NA	Solid	29B	149822
880-40528-4	S-3 (T-2) 1'	Total/NA	Solid	29B	149822

Analysis Batch: 149996

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40528-3	S-2 (T-1) 1'	Total/NA	Solid	29B SAR	149844
880-40528-4	S-3 (T-2) 1'	Total/NA	Solid	29B SAR	149844

General Chemistry

Leach Batch: 149330

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40528-4	S-3 (T-2) 1'	Soluble	Solid	DI Leach	

Analysis Batch: 149366

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40528-4	S-3 (T-2) 1'	Soluble	Solid	9045D	149330

Leach Batch: 149523

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40528-3	S-2 (T-1) 1'	Soluble	Solid	DI Leach	

Leach Batch: 149578

Lab Sample ID 880-40528-3	Client Sample ID S-2 (T-1) 1'	Prep Type Soluble	Matrix Solid	Method DI Leach	Prep Batch
880-40528-4	S-3 (T-2) 1'	Soluble	Solid	DI Leach	
MB 860-149578/2-A	Method Blank	Soluble	Solid	DI Leach	
LCS 860-149578/3-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 860-149578/4-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 149579

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40528-3	S-2 (T-1) 1'	Soluble	Solid	SM 2510B	149578
880-40528-4	S-3 (T-2) 1'	Soluble	Solid	SM 2510B	149578
MB 860-149578/2-A	Method Blank	Soluble	Solid	SM 2510B	149578
LCS 860-149578/3-A	Lab Control Sample	Soluble	Solid	SM 2510B	149578
LCSD 860-149578/4-A	Lab Control Sample Dup	Soluble	Solid	SM 2510B	149578

Analysis Batch: 149583

_ •					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40528-3	S-2 (T-1) 1'	Soluble	Solid	9045D	149523

Eurofins Midland

5

6

8

10

12

13

Project/Site: Anderson Ranch Unit #13

Client Sample ID: S-1 (1')

Client: Crain Environmental

Date Collected: 03/05/24 11:55 Date Received: 03/08/24 14:30 Lab Sample ID: 880-40528-1

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			5.02 g	5 mL	75297	03/11/24 14:34	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	75462	03/13/24 13:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			75614	03/13/24 13:04	SM	EET MID
Total/NA	Analysis	8015 NM		1			75399	03/11/24 10:32	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	75212	03/11/24 09:17	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	75200	03/11/24 10:32	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	75204	03/11/24 08:35	SA	EET MID
Soluble	Analysis	300.0		5			75420	03/12/24 23:09	CH	EET MID

Client Sample ID: S-1 (2')

Date Collected: 03/05/24 11:59 Date Received: 03/08/24 14:30 Lab Sample ID: 880-40528-2

Matrix: Solid

Batch Batch Dil Initial Final Batch Prepared Method Number **Prep Type** Type Run **Factor Amount** Amount or Analyzed **Analyst** Lab Total/NA 5035 75297 03/11/24 14:34 EL EET MID Prep 5.05 g 5 mL Total/NA 8021B 5 mL 75462 03/13/24 13:25 MNR **EET MID** Analysis 5 mL 1 Total/NA Total BTEX Analysis 75614 03/13/24 13:25 SM **EET MID** 1 Total/NA 8015 NM 75399 **EET MID** Analysis 1 03/11/24 11:36 SM Total/NA Prep 8015NM Prep 9.90 g 10 mL 75212 03/11/24 09:17 TKC **EET MID** Total/NA 8015B NM 75200 Analysis 1 uL 1 uL 03/11/24 11:36 SM **EET MID** Soluble 50 mL 75203 03/11/24 08:30 SA Leach DI Leach 4.99 g **EET MID** 300.0 03/11/24 13:25 CH Soluble Analysis 1 75240 **EET MID**

Client Sample ID: S-2 (T-1) 1'

Date Collected: 03/05/24 11:50 Date Received: 03/08/24 14:30 Lab Sample ID: 880-40528-3

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	300_Prep			5.01 g	50 mL	151711	03/26/24 17:05	HN	EET HOU
Total/NA	Analysis	300.0		1			151762	03/28/24 10:43	RBNS	EET HOU
Total/NA	Prep	29B			45 g	40 g	149822	03/14/24 17:36	PB	EET HOU
Total/NA	Prep	29B			30.01 g	30 mL	149844	03/14/24 20:08	PB	EET HOU
Total/NA	Analysis	29B SAR		1			149996	03/15/24 15:11	JDM	EET HOU
Soluble	Leach	DI Leach			20 g	20 mL	149523	03/13/24 11:48	SCI	EET HOU
Soluble	Analysis	9045D		1	20 g	20 mL	149583	03/13/24 16:00	SCI	EET HOU
Soluble	Leach	DI Leach			30 g	30 mL	149578	03/13/24 15:40	SCI	EET HOU
Soluble	Analysis	SM 2510B		1			149579	03/13/24 15:48	SCI	EET HOU

Client Sample ID: S-3 (T-2) 1'

Date Collected: 03/05/24 11:53 Date Received: 03/08/24 14:30

Lab Sample ID: 880-40528-4

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	300_Prep			4.99 g	50 mL	151711	03/26/24 17:05	HN	EET HOU
Total/NA	Analysis	300.0		1			151762	03/28/24 13:28	RBNS	EET HOU

Project/Site: Anderson Ranch Unit #13

Date Received: 03/08/24 14:30

Lab Sample ID: 880-40528-4

Client Sample ID: S-3 (T-2) 1' Date Collected: 03/05/24 11:53

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	29B			40 g	40 g	149822	03/14/24 17:36	PB	EET HOU
Total/NA	Prep	29B			30.05 g	30 mL	149844	03/14/24 20:08	PB	EET HOU
Total/NA	Analysis	29B SAR		1			149996	03/15/24 15:11	JDM	EET HOU
Soluble	Leach	DI Leach			20 g	20 mL	149330	03/12/24 12:59	SCI	EET HOU
Soluble	Analysis	9045D		1	20 g	20 mL	149366	03/12/24 14:38	SCI	EET HOU
Soluble	Leach	DI Leach			30 g	30 mL	149578	03/13/24 15:40	SCI	EET HOU
Soluble	Analysis	SM 2510B		1			149579	03/13/24 15:48	SCI	EET HOU

Lab Sample ID: 880-40528-5

Matrix: Solid

Client Sample ID: S-4 (1') Date Collected: 03/05/24 12:15 Date Received: 03/08/24 14:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	75297	03/11/24 14:34	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	75462	03/13/24 13:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			75614	03/13/24 13:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			75399	03/11/24 11:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	75212	03/11/24 09:17	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	75200	03/11/24 11:58	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	75203	03/11/24 08:30	SA	EET MID
Soluble	Analysis	300.0		1			75240	03/11/24 13:29	CH	EET MID

Client Sample ID: S-4 (2') Lab Sample ID: 880-40528-6

Matrix: Solid

Date Collected: 03/05/24 12:20 Date Received: 03/08/24 14:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	75297	03/11/24 14:34	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	75462	03/13/24 14:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			75614	03/13/24 14:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			75399	03/11/24 12:19	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	75212	03/11/24 09:17	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	75200	03/11/24 12:19	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	75203	03/11/24 08:30	SA	EET MID
Soluble	Analysis	300.0		1			75240	03/11/24 13:34	CH	EET MID

Client Sample ID: S-5 (1') Lab Sample ID: 880-40528-7 Date Collected: 03/05/24 12:03 **Matrix: Solid** Date Received: 03/08/24 14:30

	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	75297	03/11/24 14:34	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	75462	03/13/24 14:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			75614	03/13/24 14:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			75399	03/11/24 12:40	SM	EET MID

Project/Site: Anderson Ranch Unit #13

Client Sample ID: S-5 (1')

Client: Crain Environmental

Lab Sample ID: 880-40528-7

Date Collected: 03/05/24 12:03 Date Received: 03/08/24 14:30 **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	8015NM Prep			10.05 g	10 mL	75212	03/11/24 09:17	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	75200	03/11/24 12:40	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	75203	03/11/24 08:30	SA	EET MID
Soluble	Analysis	300.0		1			75240	03/11/24 13:47	CH	EET MID

Lab Sample ID: 880-40528-8

Client Sample ID: S-5 (2') Date Collected: 03/05/24 12:07

Matrix: Solid

Date Received: 03/08/24 14:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	75297	03/11/24 14:34	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	75462	03/13/24 14:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			75614	03/13/24 14:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			75399	03/11/24 13:01	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	75212	03/11/24 09:17	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	75200	03/11/24 13:01	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	75203	03/11/24 08:30	SA	EET MID
Soluble	Analysis	300.0		1			75240	03/11/24 13:51	CH	FET MID

Client Sample ID: S-6 (1') Lab Sample ID: 880-40528-9 Date Collected: 03/05/24 11:44

Matrix: Solid Date Received: 03/08/24 14:30

75240

03/11/24 14:05 CH

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	75297	03/11/24 14:34	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	75462	03/13/24 15:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			75614	03/13/24 15:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			75399	03/11/24 13:23	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	75212	03/11/24 09:17	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	75200	03/11/24 13:23	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	75203	03/11/24 08:30	SA	EET MID

Client Sample ID: S-6 (2') Lab Sample ID: 880-40528-10 Date Collected: 03/05/24 11:48

1

Date Received: 03/08/24 14:30

Analysis

300.0

Soluble

Matrix: Solid

EET MID

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	75297	03/11/24 14:34	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	75462	03/13/24 15:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			75614	03/13/24 15:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			75399	03/11/24 13:45	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	75212	03/11/24 09:17	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	75200	03/11/24 13:45	SM	EET MID

Lab Chronicle

Client: Crain Environmental

Date Received: 03/08/24 14:30

Project/Site: Anderson Ranch Unit #13

Job ID: 880-40528-1

SDG: Lea County NM

Lab Sample ID: 880-40528-10 Client Sample ID: S-6 (2') Date Collected: 03/05/24 11:48

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	75203	03/11/24 08:30	SA	EET MID
Soluble	Analysis	300.0		1			75240	03/11/24 14:09	CH	EET MID

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200 EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Crain Environmental Job ID: 880-40528-1
Project/Site: Anderson Ranch Unit #13 SDG: Lea County NM

Laboratory: Eurofins Midland

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

Authority	Program		Identification Number	Expiration Date
Texas	NELAP		T104704400-23-26	06-30-24
0 ,	s are included in this report, but th does not offer certification.	e laboratory is not c	certified by the governing authorit	y. This list may include analytes
0 ,	does not offer certification.	e laboratory is not c latrix	certified by the governing authorit Analyte	y. This list may include analytes
for which the agency	does not offer certification. Prep Method	,	, , ,	y. This list may include analytes

Laboratory: Eurofins Houston

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-00759	08-03-24
Florida	NELAP	E871002	06-30-24
Louisiana (All)	NELAP	03054	06-30-24
Oklahoma	NELAP	1306	08-31-24
Oklahoma	State	2023-139	08-31-24
Texas	NELAP	T104704215	06-30-24
Texas	TCEQ Water Supply	T104704215	12-28-25
USDA	US Federal Programs	525-23-79-79507	03-20-26

Eurofins Midland

1

2

Λ

5

7

<u> 10</u>

12

14

Method Summary

Client: Crain Environmental

Project/Site: Anderson Ranch Unit #13

Job ID: 880-40528-1

SDG: Lea County NM

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 HOU
300.0	Anions, Ion Chromatography	EPA	EET MID
29B SAR	Sodium Adsorption Ratio	LA	EET HOU
9045D	pH	SW846	EET HOU
SM 2510B	Conductivity, Specific Conductance	SM	EET HOU
29B	Preparation, Dry, Grind and Sieve	LA	EET HOU
29B	Preparation, Sodium Absorption Ratio	LA	EET HOU
300_Prep	Anions, Ion Chromatography, 10% Wt/Vol	EPA	EET HOU
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET HOU
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

LA = Statewide Order No. 29-B, State Of Louisianna

SM = "Standard Methods For The Examination Of Water And Wastewater"

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 HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200 EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Crain Environmental

Project/Site: Anderson Ranch Unit #13

Job ID: 880-40528-1

SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-40528-1	S-1 (1')	Solid	03/05/24 11:55	03/08/24 14:30
880-40528-2	S-1 (2')	Solid	03/05/24 11:59	03/08/24 14:30
880-40528-3	S-2 (T-1) 1'	Solid	03/05/24 11:50	03/08/24 14:30
880-40528-4	S-3 (T-2) 1'	Solid	03/05/24 11:53	03/08/24 14:30
880-40528-5	S-4 (1')	Solid	03/05/24 12:15	03/08/24 14:30
880-40528-6	S-4 (2')	Solid	03/05/24 12:20	03/08/24 14:30
880-40528-7	S-5 (1')	Solid	03/05/24 12:03	03/08/24 14:30
880-40528-8	S-5 (2')	Solid	03/05/24 12:07	03/08/24 14:30
880-40528-9	S-6 (1')	Solid	03/05/24 11:44	03/08/24 14:30
880-40528-10	S-6 (2')	Solid	03/05/24 11:48	03/08/24 14:30

Received by OCD: 3/24/2025 9:27:59 PM

Environment Testing Xenco

Chain of Custody

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



880-40528 Chain of Custody

r	· /	Λ			Y A 1 1 1 1 1 1				A.	فر					_				www.x	enco.cor	m Page /	_of/
Project Manager		rain			Bill to: (if	different)			<i>bri</i>	56	add	/							Wor	k Order (Comments	
Company Name	Crain Co			****	Company	/ Name		0	cta	x 0	rerg	<u>v</u>				Progra	m: l	JST/PS	Т∏ РІ	RP Bi	rownfields RRC	Superfund
Address:	2925 E.	1744	<u>51.</u>		Address.			3/1	310 W. Wall, Ste. 300					State of Project: NM								
City, State ZIP	Odessa.	双	7976	1	City, State	e ZIP·		MI	dla	χV, ·	ル	79	701			Report	ing L	evel II	Lev	/el III 🗌	PST/UST TRRP [Level IV
Phone	(575) 44	1-72	44	Email	Cin	dy. Cre	いつ	@ g.	maj.	1. co	n					Delive	rables	ED	D 🗌	AD	DaPT Other	
Project Name:	Anderson Ra	ren Un	it #13		Around								ANALY	SIS REC)UE	ST.					Preservative	Codes
Project Number				Routine	Rush	F	res. Code														None NO	DI Water H ₂ O
Project Location	Lea Co.	NM		Due Date																	Cool Cool	MeOH Me
Sampler's Name:	Cirdy Co	<u> zio</u>		TAT starts the																	HCL. HC	HNO 3 HN
PO #			_	the lab, if rece	eived by 4:3	. 1	ys						l					Ì			H ₂ S0 ₄ . H ₂	NaOH Na
SAMPLE RECEIPT	Temp Bla		Yes (No	Wet Ice:	(Yes)	No	Parameters														H₃PO₄ HP	
Samples Received Inta		7	Thermomet	ene sego	118	-	aran	10		1,0											NaHSO ₄ NABIS	
Cooler Custody Seals:	Yes No		Correction F		-110	>	Δ.	8015		50											Na ₂ S ₂ O ₃ NaSO ₃	
Sample Custody Seals	: Yes No		Temperatur		1.8			8	X	1.0			0								Zn Acetate+NaOH	Zn
Total Containers:		1	Corrected T	emperature:	1-1			3	TEX	Chlorides	2	2	E31	Ho			ĺ		1		NaOH+Ascorbic A	cid SAPC
Sample Identi	ification	Matrix	Date Sampled	Time Sampled	Depth	1 1	# of Cont	HAL	Ø	3	23	SAR	F	9							Sample Cor	mments
5-1 (1)	5	3/5/24	1155) '	G]	X	X	X											131-11-11-11-11-11-11-11-11-11-11-11-11-	
5-1 (2	\cdot)		1	1159	21		1	X	\times	X												
5-2 (7	١٠ (١٠			1150) '		2			\boxtimes	\times	>	\leq	\times								
6-37	-2) /'			1153	11		2			X	∇	\boxtimes	\times	X								
5-4 ()	,) ·			1215	1'		T	\times	$\overline{\mathbf{x}}$													
5-4 (.	Ź·)			1220	2'		1		\supset													
5-5 (<i>(</i> '')			1203	11]		$\overline{\mathbf{X}}$													
5-57	2.)			1207	21		Ì	$\langle \rangle$	$\overrightarrow{>}$													
5-67	1.)			1144	11	111		\triangleright	\Longrightarrow							 						
5-67	2')	V	$\sqrt{}$	1148	2'	V)		\boxtimes	\boxtimes												
Total 200.7 / 601	0 200.8/60)20:	81	RCRA 13PP	M Texa	s 11 Al	Sb	As B	a Be	B Cd	Ca C	r Co	Cu F	e Pb N	Иa	Mn M	o Ni	K Se	Aa Si	O ₂ Na	Sr Tl Sn U V Zn	
Circle Method(s) a	and Metal(s) to I	be anal	yzed		PLP 6010																51/7470/7471	
Notice: Signature of this doc	ument and relinquishmen	nt of sample	s constitutes a	valid purchase ord	er from clien	t company to	o Eurof	îns Xenco	o, its affil	iates and	subcont	ractors. I	t assigns	standard 1	terms	and cond	itions			***************************************		
of service. Eurofins Xenco w of Eurofins Xenco. A minimu	in be liable only for the co im charge of \$85.00 will b	ost or sample be applied to	es and shall not each project a	assume any respo and a charge of \$5	nsibility for a for each sam	ny losses or e ple submitte	expensed to E	ses incurr urofins Xe	ed by th enco, bu	e client if t not ana	such los lyzed. Th	es are du ese term:	ie to circ will be e	umstances enforced u	beyo nless	nd the co previously	ntrol negotiat	ed.				

Login Sample Receipt Checklist

Client: Crain Environmental Job Number: 880-40528-1

SDG Number: Lea County NM

Login Number: 40528 List Source: Eurofins Midland

List Number: 1

Creator: Kramer, Jessica

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
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.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	N/A	

_

Δ

O —

1

9

11

14

<6mm (1/4").

Login Sample Receipt Checklist

Client: Crain Environmental Job Number: 880-40528-1 SDG Number: Lea County NM

List Source: Eurofins Houston

Login Number: 40528	List Source: Eurofins Houston
List Number: 2	List Creation: 03/09/24 11:28 AM
Creator: Baker, Jeremiah	

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
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.	True	
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").	True	

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 10/4/2024 2:44:58 PM

JOB DESCRIPTION

ARU #13 Lea Co., NM

JOB NUMBER

880-49110-1

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 10/4/2024 2:44:58 PM

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

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

4

Δ

5

_

10

10

13

14

Client: Crain Environmental Project/Site: ARU #13

Laboratory Job ID: 880-49110-1 SDG: Lea Co., NM

Table of Contents

1
3
4
5
6
18
20
25
29
34
35
36
37
39

Definitions/Glossary

Job ID: 880-49110-1 Client: Crain Environmental Project/Site: ARU #13 SDG: Lea Co., NM

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier Qualifier Descript

LCS and/or LCSD is outside acceptance limits, high biased.

F1 MS and/or MSD recovery exceeds control limits. S1+ Surrogate recovery exceeds control limits, high biased. Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **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.
n	Listed under the "D" column to designate that the result is reported on a dry weight basi

%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

Decision Level Concentration (Radiochemistry) DLC

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

EPA recommended "Maximum Contaminant Level" MCL MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

Method Detection Limit MDL Minimum Level (Dioxin) MPN Most Probable Number MQL Method Quantitation Limit

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present PQL Practical Quantitation Limit

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Case Narrative

Client: Crain Environmental

Job ID: 880-49110-1

Project: ARU #13

Job ID: 880-49110-1

Eurofins Midland

Job Narrative 880-49110-1

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
- 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 9/27/2024 1:45 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 3.1°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: S-1 (0-6") (880-49110-1), S-1 (1') (880-49110-2), S-1 (3') (880-49110-3), S-6 (0-6") (880-49110-4), S-6 (1') (880-49110-5), S-6 (3') (880-49110-6), S-7 (0-6") (880-49110-7), S-7 (1') (880-49110-8), S-7 (2.5') (880-49110-9), S-8 (0-6") (880-49110-10), S-8 (1') (880-49110-11), S-8 (2.5') (880-49110-12), S-9 (0-6") (880-49110-13), S-9 (1") (880-49110-14) and S-9 (3") (880-49110-15).

GC VOA

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

Diesel Range Organics

Method 8015MOD NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: (LCS 880-92042/2-A) and (LCSD 880-92042/3-A). Percent recoveries are based on the amount spiked.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-92042 and analytical batch 880-92281 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.

Method 8015MOD_NM: The laboratory control sample (LCS) for preparation batch 880-92042 and analytical batch 880-92281 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28). These analytes were biased high in the LCS and are within parameters for the LCSD; therefore, the data have been reported based on the LCSD.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-92043 and analytical batch 880-92506 was outside the upper control limits.

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: (LCS 880-92043/2-A). Percent recoveries are based on the amount spiked.

Method 8015MOD NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-92043 and analytical batch 880-92506 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

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

Client: Crain Environmental Job ID: 880-49110-1 Project/Site: ARU #13 SDG: Lea Co., NM

Client Sample ID: S-1 (0-6") Lab Sample ID: 880-49110-1 Date Collected: 09/25/24 13:55

Matrix: Solid

Sample Depth: 0-6"

Date Received: 09/27/24 13:45

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/30/24 10:08	10/01/24 13:44	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/30/24 10:08	10/01/24 13:44	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/30/24 10:08	10/01/24 13:44	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/30/24 10:08	10/01/24 13:44	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/30/24 10:08	10/01/24 13:44	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/30/24 10:08	10/01/24 13:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130				09/30/24 10:08	10/01/24 13:44	1
1,4-Difluorobenzene (Surr)	99		70 - 130				09/30/24 10:08	10/01/24 13:44	1
Method: TAL SOP Total BTEX -	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			10/01/24 13:44	1
-									
Method: SW846 8015 NM - Diese	I Pango Organ	ice (DRO) (30)						
Method: SW846 8015 NM - Diese Analyte				MDL	Unit	D	Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH		Qualifier	RL 49.9	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 10/02/24 02:11	
Analyte	Result	Qualifier	RL	MDL		<u>D</u>	Prepared		
Analyte Total TPH	Result <49.9	Qualifier U	RL 49.9	MDL		<u>D</u>	Prepared		
Analyte	Result <49.9	Qualifier U	RL 49.9			<u>D</u>	Prepared Prepared		1
Analyte Total TPH Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics	Result <49.9	Qualifier Unics (DRO) Qualifier	RL 49.9		mg/Kg			10/02/24 02:11	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die	Result <49.9 sel Range Orga	Qualifier U nics (DRO) Qualifier U *+	(GC)		mg/Kg		Prepared	10/02/24 02:11 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9 sel Range Orga Result <49.9	Qualifier U nics (DRO) Qualifier U *+ U *+	(GC) RL 49.9		mg/Kg Unit mg/Kg		Prepared 09/29/24 20:34	10/02/24 02:11 Analyzed 10/02/24 02:11	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9	Qualifier U nics (DRO) Qualifier U *+ U *+	(GC) RL 49.9 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg		Prepared 09/29/24 20:34 09/29/24 20:34	10/02/24 02:11 Analyzed 10/02/24 02:11 10/02/24 02:11	1 Dil Fac
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 <49.9	Qualifier U nics (DRO) Qualifier U *+ U *+	RL 49.9 (GC) RL 49.9 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg		Prepared 09/29/24 20:34 09/29/24 20:34 09/29/24 20:34	Analyzed 10/02/24 02:11 10/02/24 02:11 10/02/24 02:11 10/02/24 02:11	Dil Face 1 1 1 Dil Face
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 <49.9	Qualifier U nics (DRO) Qualifier U *+ U *+	RL 49.9 (GC) RL 49.9 49.9 49.9 Limits		mg/Kg Unit mg/Kg mg/Kg		Prepared 09/29/24 20:34 09/29/24 20:34 09/29/24 20:34 Prepared	Analyzed 10/02/24 02:11 Analyzed 10/02/24 02:11 10/02/24 02:11 10/02/24 02:11 Analyzed	Dil Fac
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 <49.9	Qualifier U nics (DRO) Qualifier U*+ U*+ U Qualifier	RL 49.9 (GC) RL 49.9 49.9 49.9 Limits 70.130 70.130		mg/Kg Unit mg/Kg mg/Kg		Prepared 09/29/24 20:34 09/29/24 20:34 09/29/24 20:34 Prepared 09/29/24 20:34	Analyzed 10/02/24 02:11 Analyzed 10/02/24 02:11 10/02/24 02:11 Analyzed 10/02/24 02:11	Dil Fac
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 <49.9 sel Range Orga Result <49.9 <49.9 <49.9 %Recovery 73 80 1 Chromatograp	Qualifier U nics (DRO) Qualifier U*+ U*+ U Qualifier	RL 49.9 (GC) RL 49.9 49.9 49.9 Limits 70.130 70.130	MDL	mg/Kg Unit mg/Kg mg/Kg		Prepared 09/29/24 20:34 09/29/24 20:34 09/29/24 20:34 Prepared 09/29/24 20:34	Analyzed 10/02/24 02:11 Analyzed 10/02/24 02:11 10/02/24 02:11 Analyzed 10/02/24 02:11	Dil Fac Dil Fac 1 Dil Fac 1 Dil Fac 1 Dil Fac

Client Sample ID: S-1 (1') Lab Sample ID: 880-49110-2 Date Collected: 09/25/24 14:00 Matrix: Solid

Date Received: 09/27/24 13:45

Sample Depth: 1'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/30/24 10:08	10/01/24 14:04	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/30/24 10:08	10/01/24 14:04	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/30/24 10:08	10/01/24 14:04	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/30/24 10:08	10/01/24 14:04	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/30/24 10:08	10/01/24 14:04	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/30/24 10:08	10/01/24 14:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				09/30/24 10:08	10/01/24 14:04	1

Client: Crain Environmental Job ID: 880-49110-1 SDG: Lea Co., NM

Client Sample ID: S-1 (1') Lab Sample ID: 880-49110-2 Matrix: Solid

Date Collected: 09/25/24 14:00 Date Received: 09/27/24 13:45

Sample Depth: 1'

Project/Site: ARU #13

(GC) (Continued)

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	97	70 - 130	09/30/24 10:08	10/01/24 14:04	1

Method: TAI	SOP Total BTEX	- Total BTFX	Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			10/01/24 14:04	1

Method: SW846 8015 NM - Diesel Range Organics (I	DRO) (GCI	ı
incured. Offore out of the Picaci Range Organica (i		,	١.

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg	 		10/01/24 22:27	1

Method: SW846 8015B	NM - Diesel Rand	ge Organics	(DRO)	(GC)
Michiga. Offord out ob	INN - Dieser Rang	ge Organics	(DIXO)	(00)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *+ F1	49.9		mg/Kg		09/29/24 20:34	10/01/24 22:27	1
Diesel Range Organics (Over C10-C28)	<49.9	U *+ F1	49.9		mg/Kg		09/29/24 20:34	10/01/24 22:27	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/29/24 20:34	10/01/24 22:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	71	70 - 130	09/29/24 20:34	10/01/24 22:27	1
o-Terphenyl	80	70 - 130	09/29/24 20:34	10/01/24 22:27	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1130	25.3	mg/Kg			10/02/24 06:27	5

Client Sample ID: S-1 (3') Lab Sample ID: 880-49110-3 Matrix: Solid

Date Collected: 09/25/24 14:05 Date Received: 09/27/24 13:45

Sample Depth: 3'

Mothodi CIMO46 0004D	Valatila Organia Compounda (CC)

Welliou. Syvo40 002 ID - Volat	ne Organic Comp)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/30/24 10:08	10/01/24 14:24	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/30/24 10:08	10/01/24 14:24	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/30/24 10:08	10/01/24 14:24	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/30/24 10:08	10/01/24 14:24	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/30/24 10:08	10/01/24 14:24	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/30/24 10:08	10/01/24 14:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130				09/30/24 10:08	10/01/24 14:24	1
1 4-Difluorobenzene (Surr)	98		70 130				09/30/24 10:08	10/01/24 14:24	1

Mothod: TAI	SOP Total RTFY	- Total RTFY	Calculation

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00399	U	0.00399	ma/Ka			10/01/24 14:24	1

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

Analyte	Result	Qualifier	, RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/02/24 02:25	1

Client Sample ID: S-1 (3')

Date Collected: 09/25/24 14:05

Client: Crain Environmental Project/Site: ARU #13

Job ID: 880-49110-1 SDG: Lea Co., NM

Lab Sample ID: 880-49110-3

Matrix: Solid

Date Received: 09/27/24 13:45 Sample Depth: 3'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *+	49.8		mg/Kg		09/29/24 20:34	10/02/24 02:25	1
Diesel Range Organics (Over C10-C28)	<49.8	U *+	49.8		mg/Kg		09/29/24 20:34	10/02/24 02:25	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/29/24 20:34	10/02/24 02:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130				09/29/24 20:34	10/02/24 02:25	1
o-Terphenyl	87		70 - 130				09/29/24 20:34	10/02/24 02:25	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	le						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: S-6 (0-6") Lab Sample ID: 880-49110-4 Date Collected: 09/25/24 12:45 Matrix: Solid

Date Received: 09/27/24 13:45

Sample Depth: 0-6"

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/30/24 10:08	10/01/24 14:45	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/30/24 10:08	10/01/24 14:45	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/30/24 10:08	10/01/24 14:45	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/30/24 10:08	10/01/24 14:45	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/30/24 10:08	10/01/24 14:45	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/30/24 10:08	10/01/24 14:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130				09/30/24 10:08	10/01/24 14:45	1
1,4-Difluorobenzene (Surr)	96		70 - 130				09/30/24 10:08	10/01/24 14:45	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			10/01/24 14:45	1
Method: SW846 8015 NM - Diese	el 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			10/02/24 02:40	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 (GRO)-C6-C10	<49.8	U *+	49.8		mg/Kg		09/29/24 20:34	10/02/24 02:40	1
Diesel Range Organics (Over C10-C28)	<49.8	U *+	49.8		mg/Kg		09/29/24 20:34	10/02/24 02:40	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/29/24 20:34	10/02/24 02:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130				09/29/24 20:34	10/02/24 02:40	1

Job ID: 880-49110-1

Lab Sample ID: 880-49110-4

SDG: Lea Co., NM

Matrix: Solid

Client Sample ID: S-6 (0-6")

Date Collected: 09/25/24 12:45 Date Received: 09/27/24 13:45

Client: Crain Environmental

Project/Site: ARU #13

Sample Depth: 0-6"

Method: EPA 300.0 - Anions, Ion C	Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	65.5		4.98		mg/Kg			10/02/24 06:49	1	

Lab Sample ID: 880-49110-5 Client Sample ID: S-6 (1') Matrix: Solid

Date Collected: 09/25/24 12:50 Date Received: 09/27/24 13:45

Sample Depth: 1'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/30/24 10:08	10/01/24 15:05	
Toluene	< 0.00199	U	0.00199		mg/Kg		09/30/24 10:08	10/01/24 15:05	
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		09/30/24 10:08	10/01/24 15:05	
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/30/24 10:08	10/01/24 15:05	
o-Xylene	< 0.00199	U	0.00199		mg/Kg		09/30/24 10:08	10/01/24 15:05	
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/30/24 10:08	10/01/24 15:05	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	116		70 - 130				09/30/24 10:08	10/01/24 15:05	
1,4-Difluorobenzene (Surr)	96		70 - 130				09/30/24 10:08	10/01/24 15:05	
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/01/24 15:05	1
Method: SW846 8015 NM - Diese	•		•			_			5".5
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			10/02/24 02:54	,
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 (GRO)-C6-C10	<49.7	U *+	49.7		mg/Kg		09/29/24 20:34	10/02/24 02:54	,
Diesel Range Organics (Over C10-C28)	<49.7	U *+	49.7		mg/Kg		09/29/24 20:34	10/02/24 02:54	,
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		09/29/24 20:34	10/02/24 02:54	
		Qualifier	Limits				Prepared	Analyzed	Dil Fa
Surrogate	%Recovery	Qualifier							
	%Recovery 	Quanner	70 - 130				09/29/24 20:34	10/02/24 02:54	1
Surrogate 1-Chlorooctane o-Terphenyl		Quaimer	70 - 130 70 - 130				09/29/24 20:34 09/29/24 20:34	10/02/24 02:54 10/02/24 02:54	
1-Chlorooctane	88 96		70 - 130						:
1-Chlorooctane o-Terphenyl	88 96 Chromatograp		70 - 130	MDL	Unit	<u>D</u>			Dil Fac

Matrix: Solid

Job ID: 880-49110-1 SDG: Lea Co., NM

Project/Site: ARU #13 Client Sample ID: S-6 (3') Lab Sample ID: 880-49110-6

Date Collected: 09/25/24 12:55 Date Received: 09/27/24 13:45

Client: Crain Environmental

Sample Depth: 3'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/30/24 10:08	10/01/24 16:42	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/30/24 10:08	10/01/24 16:42	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/30/24 10:08	10/01/24 16:42	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/30/24 10:08	10/01/24 16:42	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/30/24 10:08	10/01/24 16:42	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/30/24 10:08	10/01/24 16:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130				09/30/24 10:08	10/01/24 16:42	1
1,4-Difluorobenzene (Surr)	98		70 - 130				09/30/24 10:08	10/01/24 16:42	1
Method: TAL SOP Total BTEX	- Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	П	0.00402		mg/Kg			10/01/24 16:42	1

Method: SW846 8015 NM - Diesel Range	Organ	ics (DRO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			10/02/24 03:10	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.7	U *+	49.7		mg/Kg		09/29/24 20:34	10/02/24 03:10	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.7	U *+	49.7		mg/Kg		09/29/24 20:34	10/02/24 03:10	1
C10-C28)									
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		09/29/24 20:34	10/02/24 03:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130				09/29/24 20:34	10/02/24 03:10	1
o-Terphenyl	90		70 - 130				09/29/24 20:34	10/02/24 03:10	1

Method: EPA 300.0 - Anions, Ion C	hromatography - Soluble						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	138	4.98	mg/Kg			10/02/24 07:00	1

Client Sample ID: S-7 (0-6") Lab Sample ID: 880-49110-7 Date Collected: 09/25/24 13:10

Date Received: 09/27/24 13:45

Sample Depth: 0-6"

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/30/24 10:08	10/01/24 17:02	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/30/24 10:08	10/01/24 17:02	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/30/24 10:08	10/01/24 17:02	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/30/24 10:08	10/01/24 17:02	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/30/24 10:08	10/01/24 17:02	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/30/24 10:08	10/01/24 17:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				09/30/24 10:08	10/01/24 17:02	1

Eurofins Midland

Matrix: Solid

Job ID: 880-49110-1

SDG: Lea Co., NM

Client Sample ID: S-7 (0-6")

Date Collected: 09/25/24 13:10 Date Received: 09/27/24 13:45

Client: Crain Environmental Project/Site: ARU #13

Sample Depth: 0-6"

Lab Sample ID: 880-49110-7 Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

%Recovery Qualifier Limits Prepared Surrogate Analyzed Dil Fac 70 - 130 09/30/24 10:08 1,4-Difluorobenzene (Surr) 97 10/01/24 17:02

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte Result Qualifier RL MDL Unit D Analyzed Dil Fac Prepared Total BTEX <0.00402 0.00402 10/01/24 17:02 mg/Kg

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

RL MDL Unit D Prepared Analyzed Dil Fac Total TPH <50.0 50.0 10/02/24 03:24 mg/Kg

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

MDL Unit Analyte Result Qualifier RL D Prepared Analyzed Dil Fac <50.0 U *+ mg/Kg Gasoline Range Organics 50.0 09/29/24 20:34 10/02/24 03:24 (GRO)-C6-C10 <50.0 U *+ 50.0 09/29/24 20:34 10/02/24 03:24 Diesel Range Organics (Over mg/Kg C10-C28) Oil Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 09/29/24 20:34 10/02/24 03:24

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1-Chlorooctane 87 70 - 130 09/29/24 20:34 10/02/24 03:24 10/02/24 03:24 98 70 - 130 09/29/24 20:34 o-Terphenyl

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac 5.00 10/02/24 07:05 Chloride 422 mg/Kg

Client Sample ID: S-7 (1') Lab Sample ID: 880-49110-8

Date Collected: 09/25/24 13:15 Date Received: 09/27/24 13:45

Sample Depth: 1'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Benzene <0.00202 U 0.00202 mg/Kg 09/30/24 10:08 10/01/24 17:23 Toluene <0.00202 U 0.00202 09/30/24 10:08 10/01/24 17:23 mg/Kg Ethylbenzene <0.00202 U 0.00202 09/30/24 10:08 10/01/24 17:23 mg/Kg 0.00404 10/01/24 17:23 m-Xylene & p-Xylene <0.00404 U 09/30/24 10:08 mg/Kg o-Xylene <0.00202 U 0.00202 mg/Kg 09/30/24 10:08 10/01/24 17:23 Xylenes, Total <0.00404 U 0.00404 mg/Kg 09/30/24 10:08 10/01/24 17:23

Qualifier Limits Dil Fac Surrogate %Recovery Prepared Analyzed 70 - 130 4-Bromofluorobenzene (Surr) 120 09/30/24 10:08 10/01/24 17:23 1,4-Difluorobenzene (Surr) 98 70 - 130 09/30/24 10:08 10/01/24 17:23

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte Result Qualifier MDL D RL Unit Prepared Analyzed Dil Fac Total BTEX <0.00404 0.00404 10/01/24 17:23 mg/Kg

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

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac <49.8 U Total TPH 49.8 10/02/24 03:40 mg/Kg

Eurofins Midland

Matrix: Solid

Client: Crain Environmental Job ID: 880-49110-1 Project/Site: ARU #13 SDG: Lea Co., NM

Client Sample ID: S-7 (1') Lab Sample ID: 880-49110-8

Date Collected: 09/25/24 13:15 Matrix: Solid Date Received: 09/27/24 13:45

Sample Depth: 1'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U *+	49.8		mg/Kg		09/29/24 20:34	10/02/24 03:40	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.8	U *+	49.8		mg/Kg		09/29/24 20:34	10/02/24 03:40	1
C10-C28)									
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/29/24 20:34	10/02/24 03:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130				09/29/24 20:34	10/02/24 03:40	1
o-Terphenyl	88		70 - 130				09/29/24 20:34	10/02/24 03:40	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	648		5.00		mg/Kg			10/02/24 07:11	

Client Sample ID: S-7 (2.5') Lab Sample ID: 880-49110-9 Matrix: Solid

Date Collected: 09/25/24 13:20

Date Received: 09/27/24 13:45

Sample Depth: 2.5'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/30/24 10:08	10/01/24 17:43	1
Toluene	< 0.00199	U	0.00199		mg/Kg		09/30/24 10:08	10/01/24 17:43	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		09/30/24 10:08	10/01/24 17:43	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/30/24 10:08	10/01/24 17:43	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		09/30/24 10:08	10/01/24 17:43	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/30/24 10:08	10/01/24 17:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130				09/30/24 10:08	10/01/24 17:43	1
1,4-Difluorobenzene (Surr)	97		70 - 130				09/30/24 10:08	10/01/24 17:43	1
Method: TAL SOP Total BTEX -	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/01/24 17:43	1
Method: SW846 8015 NM - Diese	al Range Organ	ics (DRO) ((CC)						
Michiga. Offord of the line - Dica	oi italige Olgali								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Total TPH	Result <49.8	Qualifier	•	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 10/02/24 03:55	Dil Fac
Total TPH	<49.8	Qualifier U	RL 49.8	MDL		<u>D</u>	Prepared		
	<49.8 sel Range Orga	Qualifier U	RL 49.8	MDL	mg/Kg	<u>D</u>	Prepared Prepared		
Total TPH Method: SW846 8015B NM - Die	<49.8 sel Range Orga	Qualifier Unics (DRO) Qualifier	RL 49.8		mg/Kg			10/02/24 03:55	1
Total TPH Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics	<49.8 sel Range Orga Result	Qualifier Unics (DRO) Qualifier	(GC)		mg/Kg		Prepared	10/02/24 03:55 Analyzed	1 Dil Fac
Total TPH Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<49.8 sel Range Orga Result	Qualifier U nics (DRO) Qualifier U *+	(GC)		mg/Kg		Prepared	10/02/24 03:55 Analyzed	1 Dil Fac
Total TPH Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<49.8 sel Range Orga Result <49.8	Qualifier U nics (DRO) Qualifier U *+	RL 49.8 (GC) RL 49.8 49.8		mg/Kg Unit mg/Kg		Prepared 09/29/24 20:34 09/29/24 20:34	10/02/24 03:55 Analyzed 10/02/24 03:55 10/02/24 03:55	Dil Fac
Total TPH Method: SW846 8015B NM - Die Analyte	<49.8 sel Range Orga Result <49.8	Qualifier U nics (DRO) Qualifier U *+ U *+	(GC) RL 49.8		mg/Kg Unit mg/Kg		Prepared 09/29/24 20:34	10/02/24 03:55 Analyzed 10/02/24 03:55	Dil Fac
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)	<49.8 sel Range Orga Result <49.8 <49.8 <49.8 <49.8 %Recovery	Qualifier U nics (DRO) Qualifier U *+ U *+	RL 49.8 (GC) RL 49.8 49.8		mg/Kg Unit mg/Kg mg/Kg		Prepared 09/29/24 20:34 09/29/24 20:34	10/02/24 03:55 Analyzed 10/02/24 03:55 10/02/24 03:55	1 Dil Fac
Total TPH Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<49.8 sel Range Orga Result <49.8 <49.8 <49.8	Qualifier U nics (DRO) Qualifier U *+ U *+	RL 49.8 (GC) RL 49.8 49.8 49.8		mg/Kg Unit mg/Kg mg/Kg		Prepared 09/29/24 20:34 09/29/24 20:34 09/29/24 20:34	Analyzed 10/02/24 03:55 10/02/24 03:55 10/02/24 03:55 10/02/24 03:55	1 Dil Fac 1 1

Client Sample Results

Client: Crain Environmental
Project/Site: ARU #13

Job ID: 880-49110-1 SDG: Lea Co., NM

Matrix: Solid

Lab Sample ID: 880-49110-9

Client Sample ID: S-7 (2.5')

Date Collected: 09/25/24 13:20 Date Received: 09/27/24 13:45

Sample Depth: 2.5'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	1010		5.00		mg/Kg			10/02/24 07:27	1	

Client Sample ID: S-8 (0-6")

Date Collected: 09/25/24 13:30

Lab Sample ID: 880-49110-10

Matrix: Solid

Date Collected: 09/25/24 13:30 Date Received: 09/27/24 13:45

Sample Depth: 0-6"

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200		mg/Kg		09/30/24 10:08	10/01/24 18:04	
Toluene	<0.00200	U	0.00200		mg/Kg		09/30/24 10:08	10/01/24 18:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/30/24 10:08	10/01/24 18:04	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/30/24 10:08	10/01/24 18:04	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/30/24 10:08	10/01/24 18:04	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/30/24 10:08	10/01/24 18:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130				09/30/24 10:08	10/01/24 18:04	1
1,4-Difluorobenzene (Surr)	96		70 - 130				09/30/24 10:08	10/01/24 18:04	1
Method: TAL SOP Total BTEX - 1	otal BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			10/01/24 18:04	1
Method: SW846 8015 NM - Diese Analyte Total TPH		Qualifier	RL 50.0	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 10/03/24 17:28	Dil Fac
					3 3				
Method: SW846 8015B NM - Dies			• •	MDI	l lmi4	_	Duamanad	A malumad	Dil Fac
Analyte		Qualifier		MDL	Unit	D	Prepared 09/29/24 20:37	Analyzed 10/03/24 17:28	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/29/24 20:37	10/03/24 17:28	1
Diesel Range Organics (Over	420	F1	50.0		mg/Kg		09/29/24 20:37	10/03/24 17:28	1
C10-C28)					0 0				
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/29/24 20:37	10/03/24 17:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				09/29/24 20:37	10/03/24 17:28	1
o-Terphenyl	95		70 - 130				09/29/24 20:37	10/03/24 17:28	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Matrix: Solid

Lab Sample ID: 880-49110-11

Client Sample Results

Client: Crain Environmental

Project/Site: ARU #13

Job ID: 880-49110-1

SDG: Lea Co., NM

Client Sample ID: S-8 (1')

Date Collected: 09/25/24 13:35 Date Received: 09/27/24 13:45

Sample Depth: 1'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/30/24 10:08	10/01/24 18:24	
Toluene	<0.00201	U	0.00201		mg/Kg		09/30/24 10:08	10/01/24 18:24	
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/30/24 10:08	10/01/24 18:24	•
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/30/24 10:08	10/01/24 18:24	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/30/24 10:08	10/01/24 18:24	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/30/24 10:08	10/01/24 18:24	,
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	119		70 - 130				09/30/24 10:08	10/01/24 18:24	1
1,4-Difluorobenzene (Surr)	97		70 - 130				09/30/24 10:08	10/01/24 18:24	1
Method: TAL SOP Total BTEX - 1	otal BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
T DTEV	<0.00402	11	0.00400					40/04/04 40:04	
Total BTEX	<0.00402	U	0.00402		mg/Kg			10/01/24 18:24	,
iotal BTEX : 	l Range Organ			MDL	mg/Kg Unit	D	Prepared	Analyzed	Dil Fac
: Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)	MDL		<u>D</u>	Prepared		Dil Fac
Method: SW846 8015 NM - Diese Analyte	Result <50.0	ics (DRO) (Qualifier	GC) RL 50.0	MDL	Unit	<u>D</u>	Prepared	Analyzed	
Method: SW846 8015 NM - Diese Analyte Total TPH	el Range Organ Result <50.0 sel Range Organ	ics (DRO) (Qualifier	GC) RL 50.0	MDL	Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed	
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies	el Range Organ Result <50.0 sel Range Organ	Qualifier Unics (DRO) Qualifier Qualifier	GC) RL 50.0		Unit mg/Kg		<u> </u>	Analyzed 10/03/24 18:17	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Range Organ Result <50.0 sel Range Orga Result	ics (DRO) (Qualifier U unics (DRO) Qualifier U	GC) RL 50.0 (GC) RL		Unit mg/Kg		Prepared	Analyzed 10/03/24 18:17 Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10	el Range Organ Result <50.0 sel Range Orga Result <50.0	ics (DRO) (Qualifier U unics (DRO) Qualifier U	GC) RL 50.0 (GC) RL 50.0		Unit mg/Kg Unit mg/Kg		Prepared 09/29/24 20:37	Analyzed 10/03/24 18:17 Analyzed 10/03/24 18:17	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	el Range Organ Result <50.0 sel Range Orga Result <50.0 <50.0	ics (DRO) (Qualifier U unics (DRO) Qualifier U U	GC) RL 50.0 (GC) RL 50.0 50.0		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 09/29/24 20:37 09/29/24 20:37	Analyzed 10/03/24 18:17 Analyzed 10/03/24 18:17 10/03/24 18:17	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	sel Range Organ Result <50.0 sel Range Orga Result <50.0 <50.0 <50.0	ics (DRO) (Qualifier U unics (DRO) Qualifier U U	GC) RL 50.0 (GC) RL 50.0 50.0 50.0		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 09/29/24 20:37 09/29/24 20:37	Analyzed 10/03/24 18:17 Analyzed 10/03/24 18:17 10/03/24 18:17 10/03/24 18:17	1

Client Sample ID: S-8 (2.5')

Date Collected: 09/25/24 13:40

Date Received: 09/27/24 13:45

Sample Depth: 2.5'

Analyte

Chloride

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/30/24 10:08	10/01/24 18:44	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/30/24 10:08	10/01/24 18:44	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/30/24 10:08	10/01/24 18:44	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/30/24 10:08	10/01/24 18:44	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/30/24 10:08	10/01/24 18:44	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/30/24 10:08	10/01/24 18:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130				09/30/24 10:08	10/01/24 18:44	

RL

25.2

Result Qualifier

906

MDL Unit

mg/Kg

D

Prepared

Analyzed

10/02/24 07:48

Lab Sample ID: 880-49110-12

Dil Fac

Matrix: Solid

Client: Crain Environmental Project/Site: ARU #13

Job ID: 880-49110-1

SDG: Lea Co., NM

Client Sample ID: S-8 (2.5')

Date Collected: 09/25/24 13:40 Date Received: 09/27/24 13:45

Sample Depth: 2.5'

Lab Sample ID: 880-49110-12

Lab Sample ID: 880-49110-13

Matrix: Solid

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

%Recovery Qualifier Limits Prepared Surrogate Analyzed Dil Fac 70 - 130 09/30/24 10:08 1,4-Difluorobenzene (Surr) 97 10/01/24 18:44

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte Result Qualifier RL MDL Unit D Analyzed Dil Fac Prepared Total BTEX <0.00398 0.00398 10/01/24 18:44 mg/Kg

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

RL MDL Unit D Prepared Analyzed Dil Fac **Total TPH** 49.9 10/03/24 18:34 155 mg/Kg

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

MDL Unit Analyte Result Qualifier RL D Prepared Analyzed Dil Fac <49.9 U mg/Kg 10/03/24 18:34 Gasoline Range Organics 49.9 09/29/24 20:37 (GRO)-C6-C10 49.9 09/29/24 20:37 10/03/24 18:34 **Diesel Range Organics (Over** 155 mg/Kg C10-C28) Oil Range Organics (Over C28-C36) <49.9 U 49.9 mg/Kg 09/29/24 20:37 10/03/24 18:34

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1-Chlorooctane 102 70 - 130 09/29/24 20:37 10/03/24 18:34 10/03/24 18:34 91 70 - 130 09/29/24 20:37 o-Terphenyl

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac 25.3 10/02/24 07:54 Chloride 877 mg/Kg

Client Sample ID: S-9 (0-6")

Date Collected: 09/25/24 12:25 Date Received: 09/27/24 13:45

Sample Depth: 0-6"

Method: SW846 8021B - Volatile Organic Compounds (GC) Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Benzene <0.00200 U 0.00200 mg/Kg 09/30/24 10:08 10/01/24 19:05 Toluene <0.00200 U 0.00200 09/30/24 10:08 10/01/24 19:05 mg/Kg Ethylbenzene <0.00200 U 0.00200 09/30/24 10:08 10/01/24 19:05 mg/Kg 0.00399 10/01/24 19:05 m-Xylene & p-Xylene <0.00399 U 09/30/24 10:08 mg/Kg o-Xylene <0.00200 U 0.00200 mg/Kg 09/30/24 10:08 10/01/24 19:05 Xylenes, Total <0.00399 U 0.00399 mg/Kg 09/30/24 10:08 10/01/24 19:05

%Recovery Qualifier Limits Dil Fac Surrogate Prepared Analyzed 119 70 - 130 4-Bromofluorobenzene (Surr) 09/30/24 10:08 10/01/24 19:05 1,4-Difluorobenzene (Surr) 97 70 - 130 09/30/24 10:08 10/01/24 19:05

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte Result Qualifier MDL D RL Unit Prepared Analyzed Dil Fac Total BTEX <0.00399 0.00399 10/01/24 19:05 mg/Kg

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

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac **Total TPH** 49.8 10/03/24 18:51 393 mg/Kg

Client: Crain Environmental Project/Site: ARU #13

Job ID: 880-49110-1

SDG: Lea Co., NM

Client Sample ID: S-9 (0-6")

Date Collected: 09/25/24 12:25 Date Received: 09/27/24 13:45

Sample Depth: 0-6"

Lab Sample ID: 880-49110-13

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		09/29/24 20:37	10/03/24 18:51	1
Diesel Range Organics (Over C10-C28)	393		49.8		mg/Kg		09/29/24 20:37	10/03/24 18:51	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/29/24 20:37	10/03/24 18:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130				09/29/24 20:37	10/03/24 18:51	1
o-Terphenyl	98		70 - 130				09/29/24 20:37	10/03/24 18:51	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
								10/02/24 08:12	

Client Sample ID: S-9 (1') Lab Sample ID: 880-49110-14

Date Collected: 09/25/24 12:30 Date Received: 09/27/24 13:45

Sample Depth: 1'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/30/24 10:08	10/01/24 19:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/30/24 10:08	10/01/24 19:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/30/24 10:08	10/01/24 19:25	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		09/30/24 10:08	10/01/24 19:25	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/30/24 10:08	10/01/24 19:25	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		09/30/24 10:08	10/01/24 19:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130				09/30/24 10:08	10/01/24 19:25	1
1,4-Difluorobenzene (Surr)	97		70 - 130				09/30/24 10:08	10/01/24 19:25	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			10/01/24 19:25	1
Total BTEX	<0.00401	U	0.00401		mg/Kg			10/01/24 19:25	1
Total BTEX Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (mg/Kg			10/01/24 19:25	
•	el Range Organ			MDL		D	Prepared	10/01/24 19:25 Analyzed	Dil Fac
: Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)	MDL		D	Prepared		
Method: SW846 8015 NM - Diese Analyte	Result 60.4	ics (DRO) (Qualifier	GC) RL 50.0	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH	el Range Organ Result 60.4 sel Range Orga	ics (DRO) (Qualifier	GC) RL 50.0	MDL	Unit mg/Kg	D	Prepared Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies	el Range Organ Result 60.4 sel Range Orga	Qualifier unics (DRO) Qualifier	GC) RL 50.0		Unit mg/Kg			Analyzed 10/03/24 19:08	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics	Range Organ Result 60.4 sel Range Orga Result	Qualifier unics (DRO) Qualifier	GC) RL 50.0		Unit mg/Kg		Prepared	Analyzed 10/03/24 19:08 Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10	Result 60.4 Sel Range Organ Result 60.4 Sel Range Orga Result <50.0	Qualifier unics (DRO) Qualifier	GC) RL 50.0 (GC) RL 50.0		Unit mg/Kg Unit mg/Kg		Prepared 09/29/24 20:37	Analyzed 10/03/24 19:08 Analyzed 10/03/24 19:08	Dil Fac Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result 60.4 Sel Range Organ Result 60.4 Sel Range Orga Result <50.0	ics (DRO) (Qualifier unics (DRO) Qualifier U	GC) RL 50.0 (GC) RL 50.0		Unit mg/Kg Unit mg/Kg		Prepared 09/29/24 20:37	Analyzed 10/03/24 19:08 Analyzed 10/03/24 19:08	Dil Fac Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	el Range Organ Result 60.4 sel Range Orga Result <50.0	ics (DRO) (Qualifier nnics (DRO) Qualifier U	GC) RL 50.0 (GC) RL 50.0 50.0		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 09/29/24 20:37 09/29/24 20:37	Analyzed 10/03/24 19:08 Analyzed 10/03/24 19:08 10/03/24 19:08	Dil Fac Dil Fac 1 1 1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	sel Range Organ Result 60.4 sel Range Orga Result <50.0 60.4 <50.0	ics (DRO) (Qualifier nnics (DRO) Qualifier U	GC) RL 50.0 (GC) RL 50.0 50.0 50.0		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 09/29/24 20:37 09/29/24 20:37	Analyzed 10/03/24 19:08 Analyzed 10/03/24 19:08 10/03/24 19:08 10/03/24 19:08	Dil Fac Dil Fac 1

Eurofins Midland

Matrix: Solid

Client Sample Results

Client: Crain Environmental Project/Site: ARU #13

Job ID: 880-49110-1

Lab Sample ID: 880-49110-14

SDG: Lea Co., NM

Matrix: Solid

Client Sample ID: S-9 (1')

Date Collected: 09/25/24 12:30 Date Received: 09/27/24 13:45

Sample Depth: 1'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	303		4.95		mg/Kg			10/02/24 08:00	1	

Lab Sample ID: 880-49110-15 Client Sample ID: S-9 (3') Matrix: Solid

Date Collected: 09/25/24 12:35 Date Received: 09/27/24 13:45

Sample Depth: 3'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00199	U	0.00199		mg/Kg		09/30/24 10:08	10/01/24 19:46	
Toluene	< 0.00199	U	0.00199		mg/Kg		09/30/24 10:08	10/01/24 19:46	
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		09/30/24 10:08	10/01/24 19:46	
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/30/24 10:08	10/01/24 19:46	
o-Xylene	< 0.00199	U	0.00199		mg/Kg		09/30/24 10:08	10/01/24 19:46	
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/30/24 10:08	10/01/24 19:46	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)			70 - 130				09/30/24 10:08	10/01/24 19:46	
1,4-Difluorobenzene (Surr)	97		70 - 130				09/30/24 10:08	10/01/24 19:46	
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/01/24 19:46	•
- Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)						
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
							opaioa	Allalyzeu	DII Fac
Total TPH	<49.6	U	49.6		mg/Kg			10/03/24 19:25	DII Fac
• •					mg/Kg	=			
: Method: SW846 8015B NM - Dies	sel Range Orga			MDL			Prepared		
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	sel Range Orga	nics (DRO) Qualifier	(GC)	MDL				10/03/24 19:25	
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	sel Range Orga Result	nics (DRO) Qualifier	(GC)	MDL	Unit		Prepared	10/03/24 19:25 Analyzed	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	sel Range Orga Result <49.6	nics (DRO) Qualifier U	(GC) RL 49.6	MDL	Unit mg/Kg		Prepared 09/29/24 20:37	10/03/24 19:25 Analyzed 10/03/24 19:25	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	sel Range Orga Result <49.6	nics (DRO) Qualifier U U	(GC) RL 49.6	MDL	Unit mg/Kg mg/Kg		Prepared 09/29/24 20:37	10/03/24 19:25 Analyzed 10/03/24 19:25 10/03/24 19:25	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	sel Range Orga Result <49.6 <49.6	nics (DRO) Qualifier U U	(GC) RL 49.6 49.6 49.6	MDL	Unit mg/Kg mg/Kg		Prepared 09/29/24 20:37 09/29/24 20:37	Analyzed 10/03/24 19:25 10/03/24 19:25 10/03/24 19:25 10/03/24 19:25	Dil Fac
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	sel Range Orga Result <49.6 <49.6 <49.6	nics (DRO) Qualifier U U	(GC) RL 49.6 49.6 49.6 Limits	MDL	Unit mg/Kg mg/Kg		Prepared 09/29/24 20:37 09/29/24 20:37 09/29/24 20:37 Prepared	Analyzed 10/03/24 19:25 Analyzed 10/03/24 19:25 10/03/24 19:25 Analyzed	Dil Fa
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	sel Range Orga Result <49.6	Nics (DRO) Qualifier U U Qualifier	(GC) RL 49.6 49.6 49.6 Limits 70 - 130 70 - 130	MDL	Unit mg/Kg mg/Kg		Prepared 09/29/24 20:37 09/29/24 20:37 09/29/24 20:37 Prepared 09/29/24 20:37	Analyzed 10/03/24 19:25 10/03/24 19:25 10/03/24 19:25 10/03/24 19:25 Analyzed 10/03/24 19:25	Dil Fac
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	sel Range Orga Result <49.6 <49.6 <49.6 **Recovery 113 94 Chromatograp	Nics (DRO) Qualifier U U Qualifier	(GC) RL 49.6 49.6 49.6 Limits 70 - 130 70 - 130	MDL	Unit mg/Kg mg/Kg mg/Kg		Prepared 09/29/24 20:37 09/29/24 20:37 09/29/24 20:37 Prepared 09/29/24 20:37	Analyzed 10/03/24 19:25 10/03/24 19:25 10/03/24 19:25 10/03/24 19:25 Analyzed 10/03/24 19:25	Dil Fac

Surrogate Summary

Client: Crain Environmental Job ID: 880-49110-1
Project/Site: ARU #13 SDG: Lea Co., NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1	Percent Surrogate Recovery (Acceptance Limits)
_ab Sample ID	Client Sample ID	(70-130)	(70-130)	
380-49110-1	S-1 (0-6")	116	99	
380-49110-2	S-1 (1')	117	97	
380-49110-3	S-1 (3')	117	98	
380-49110-4	S-6 (0-6")	115	96	
380-49110-5	S-6 (1')	116	96	
380-49110-6	S-6 (3')	120	98	
380-49110-7	S-7 (0-6")	115	97	
380-49110-8	S-7 (1')	120	98	
380-49110-9	S-7 (2.5')	118	97	
380-49110-10	S-8 (0-6")	117	96	
380-49110-11	S-8 (1')	119	97	
380-49110-12	S-8 (2.5')	119	97	
380-49110-13	S-9 (0-6")	119	97	
380-49110-14	S-9 (1')	117	97	
380-49110-15	S-9 (3')	117	97	
CS 880-92095/1-A	Lab Control Sample	113	96	
CSD 880-92095/2-A	Lab Control Sample Dup	111	96	
	Method Blank	110	93	

BFB = 4-Bromofluorobenzene (Surr) DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

		1001	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-49110-1	S-1 (0-6")	73	80
880-49110-2	S-1 (1')	71	80
880-49110-2 MS	S-1 (1')	86	82
880-49110-2 MSD	S-1 (1')	85	82
880-49110-3	S-1 (3')	78	87
880-49110-4	S-6 (0-6")	82	92
880-49110-5	S-6 (1')	88	96
880-49110-6	S-6 (3')	83	90
880-49110-7	S-7 (0-6")	87	98
880-49110-8	S-7 (1')	78	88
880-49110-9	S-7 (2.5')	80	91
880-49110-10	S-8 (0-6")	106	95
880-49110-10 MS	S-8 (0-6")	110	82
880-49110-10 MSD	S-8 (0-6")	87	81
880-49110-11	S-8 (1')	105	86
880-49110-12	S-8 (2.5')	102	91
880-49110-13	S-9 (0-6")	113	98
880-49110-14	S-9 (1')	95	81
880-49110-15	S-9 (3')	113	94
LCS 880-92042/2-A	Lab Control Sample	149 S1+	144 S1+
LCS 880-92043/2-A	Lab Control Sample	155 S1+	144 S1+

Surrogate Summary

Client: Crain Environmental Job ID: 880-49110-1
Project/Site: ARU #13 SDG: Lea Co., NM

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

Matrix: Solid Prep Type: Total/NA

		1001	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
LCSD 880-92042/3-A	Lab Control Sample Dup	136 S1+	131 S1+
LCSD 880-92043/3-A	Lab Control Sample Dup	129	117
MB 880-92042/1-A	Method Blank	70	75
MB 880-92043/1-A	Method Blank	122	154 S1+
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

Client: Crain Environmental Project/Site: ARU #13

Job ID: 880-49110-1 SDG: Lea Co., NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-92095/5-A

Lab Sample ID: LCS 880-92095/1-A

Matrix: Solid

Analyte Benzene

Toluene

o-Xylene

Ethylbenzene

Xylenes, Total

Matrix: Solid

Analysis Batch: 92215

m-Xylene & p-Xylene

Analysis Batch: 92215

Client Sample ID: Method Blank

10/01/24 11:40

10/01/24 11:40

Analyzed

Prep Type: Total/NA

Prep Batch: 92095

MR	МВ						•	
	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<0.00200	U	0.00200		mg/Kg		09/30/24 10:08	10/01/24 11:40	1
<0.00200	U	0.00200		mg/Kg		09/30/24 10:08	10/01/24 11:40	1
<0.00200	U	0.00200		mg/Kg		09/30/24 10:08	10/01/24 11:40	1
<0.00400	U	0.00400		mg/Kg		09/30/24 10:08	10/01/24 11:40	1

mg/Kg

mg/Kg

MB MB

Qualifier %Recovery Limits Surrogate 70 - 130 4-Bromofluorobenzene (Surr) 110 70 - 130 1,4-Difluorobenzene (Surr) 93

09/30/24 10:08 10/01/24 11:40 09/30/24 10:08 10/01/24 11:40

09/30/24 10:08

09/30/24 10:08

Prepared

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Prep Batch: 92095

Dil Fac

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.09670 mg/Kg 97 70 - 130 Toluene 0.100 0.09810 mg/Kg 98 70 - 130 Ethylbenzene 0.100 0.1000 mg/Kg 100 70 - 130 70 - 130 103 m-Xylene & p-Xylene 0.200 0.2069 mg/Kg 0.100 o-Xylene 0.1028 mg/Kg 103 70 - 130

0.00200

0.00400

LCS LCS Qualifier %Recovery

<0.00200 U

<0.00400 U

Limits Surrogate 70 - 130 4-Bromofluorobenzene (Surr) 113 70 - 130 1,4-Difluorobenzene (Surr) 96

Lab Sample ID: LCSD 880-92095/2-A

Matrix: Solid

Analysis Batch: 92215

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 92095

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.08899		mg/Kg		89	70 - 130	8	35
Toluene	0.100	0.09017		mg/Kg		90	70 - 130	8	35
Ethylbenzene	0.100	0.09178		mg/Kg		92	70 - 130	9	35
m-Xylene & p-Xylene	0.200	0.1902		mg/Kg		95	70 - 130	8	35
o-Xylene	0.100	0.09522		mg/Kg		95	70 - 130	8	35

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	111	70 - 130
1,4-Difluorobenzene (Surr)	96	70 - 130

Job ID: 880-49110-1 SDG: Lea Co., NM

Project/Site: ARU #13 Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-92042/1-A

Matrix: Solid Analysis Batch: 92281

Client: Crain Environmental

Client Sample ID: Method Blank Prep Type: Total/NA Prep Batch: 92042

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		09/29/24 20:34	10/01/24 21:43	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		09/29/24 20:34	10/01/24 21:43	1
C10-C28)									
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/29/24 20:34	10/01/24 21:43	1
	MB	MB							
	A / =								

Surrogate	%Recovery Qual	lifier Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	70	70 - 130	09/29/24 20:34	10/01/24 21:43	1
o-Terphenyl	75	70 - 130	09/29/24 20:34	10/01/24 21:43	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 92042

Analysis Batch: 92281

Matrix: Solid

Lab Sample ID: LCS 880-92042/2-A

LCS LCS Spike Added Analyte Result Qualifier Unit D %Rec Limits 1000 1328 *+ Gasoline Range Organics mg/Kg 133 70 - 130 (GRO)-C6-C10 1000 1423 *+ Diesel Range Organics (Over mg/Kg 142 70 - 130 C10-C28)

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	149	S1+	70 - 130
o-Ternhenyl	144	S1+	70 - 130

Lab Sample ID: LCSD 880-92042/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 92281

Prep Type: Total/NA

Prep Batch: 92042

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	1151		mg/Kg		115	70 - 130	14	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	1267		mg/Kg		127	70 - 130	12	20
C10-C28)									

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	136	S1+	70 - 130
o-Terphenyl	131	S1+	70 - 130

Lab Sample ID: 880-49110-2 MS Client Sample ID: S-1 (1')

Matrix: Solid Prep Type: Total/NA Analysis Batch: 92281 Prep Batch: 92042

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<49.9	U *+ F1	994	671.4	F1	mg/Kg		68	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	<49.9	U *+ F1	994	621.3	F1	mg/Kg		61	70 - 130	
C10-C28)										

Client: Crain Environmental Project/Site: ARU #13

MS MS

MB MB

Job ID: 880-49110-1 SDG: Lea Co., NM

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

Lab Sample ID: 880-49110-2 MS **Matrix: Solid**

Analysis Batch: 92281

Client Sample ID: S-1 (1')

Prep Type: Total/NA

Prep Batch: 92042

Surrogate %Recovery Qualifier 1-Chlorooctane 86 70 - 130 o-Terphenyl 82 70 - 130

Lab Sample ID: 880-49110-2 MSD Client Sample ID: S-1 (1')

Limits

Matrix: Solid Prep Type: Total/NA Analysis Batch: 92281 Prep Batch: 92042

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit <49.9 U*+ F1 994 661.2 F1 67 70 - 1302 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U*+ F1 994 605.8 F1 mg/Kg 59 70 - 1303 20 C10-C28)

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	85		70 - 130
o-Terphenyl	82		70 - 130

Lab Sample ID: MB 880-92043/1-A Client Sample ID: Method Blank

Matrix: Solid

Analysis Batch: 92506

Prep Type: Total/NA

Prep Batch: 92043

MDL Unit Analyte Result Qualifier RL D Prepared Analyzed Dil Fac Gasoline Range Organics <50.0 U 50.0 mg/Kg 09/29/24 20:36 10/03/24 03:55 (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg 09/29/24 20:36 10/03/24 03:55 C10-C28) 50.0 Oil Range Organics (Over C28-C36) <50.0 U 09/29/24 20:36 10/03/24 03:55 mg/Kg

MB MB Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 70 - 130 1-Chlorooctane 122 09/29/24 20:36 10/03/24 03:55 154 S1+ 70 - 130 09/29/24 20:36 o-Terphenyl 10/03/24 03:55

Lab Sample ID: LCS 880-92043/2-A Client Sample ID: Lab Control Sample

Matrix: Solid Prep Type: Total/NA Analysis Batch: 92506 Prep Batch: 92043

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits 1000 Gasoline Range Organics 1271 127 70 - 130 mg/Kg (GRO)-C6-C10 1000 1187 119 70 - 130 Diesel Range Organics (Over mg/Kg C10-C28)

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	155	S1+	70 - 130
o-Ternhenyl	144	S1+	70 130

Spike

Added

1000

1000

Limits

70 - 130

Spike

Job ID: 880-49110-1 SDG: Lea Co., NM

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

Sample Sample

Lab Sample ID: LCSD 880-92043/3-A

Matrix: Solid

Analysis Batch: 92506

Gasoline Range Organics

Client: Crain Environmental Project/Site: ARU #13

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 92043

17

RPD Unit %Rec Limits RPD Limit D mg/Kg 113 70 - 130 12 20

100

70 - 130

Diesel Range Organics (Over

(GRO)-C6-C10

Analyte

C10-C28)

LCSD LCSD Qualifier Surrogate %Recovery 1-Chlorooctane 129 o-Terphenyl 117

70 - 130

mg/Kg

LCSD LCSD

MS MS

1127

1003

Result Qualifier

Matrix: Solid

Analysis Batch: 92506

Lab Sample ID: 880-49110-10 MS

Client Sample ID: S-8 (0-6") Prep Type: Total/NA

Prep Batch: 92043

%Rec Limits

Analyte Result Qualifier Added Result Qualifier Unit D %Rec Gasoline Range Organics <50.0 U 997 951.6 mg/Kg 95 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over 420 F1 997 976.3 F1 mg/Kg 56 70 - 130 C10-C28)

MS MS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 110 70 - 130 82 70 - 130 o-Terphenyl

Lab Sample ID: 880-49110-10 MSD Client Sample ID: S-8 (0-6")

Matrix: Solid

Analysis Batch: 92506

Prep Type: Total/NA Prep Batch: 92043

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit <50.0 U 924.0 93 Gasoline Range Organics 997 70 - 130 3 20 mg/Kg (GRO)-C6-C10 420 F1 997 1091 F1 67 Diesel Range Organics (Over mg/Kg 70 - 130 11 20 C10-C28)

MSD MSD Qualifier Limits Surrogate %Recovery 1-Chlorooctane 70 - 130 87 81 70 - 130 o-Terphenyl

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-92154/1-A Client Sample ID: Method Blank **Matrix: Solid**

Analysis Batch: 92241

MB MB

Analyte Result Qualifier RL MDL Dil Fac Unit D Prepared Analyzed Chloride <5.00 U 5.00 10/02/24 05:39 mg/Kg

Eurofins Midland

Prep Type: Soluble

QC Sample Results

Client: Crain Environmental Job ID: 880-49110-1 Project/Site: ARU #13 SDG: Lea Co., NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-92154/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 92241

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits Chloride 250 249.1 mg/Kg 100 90 - 110

Lab Sample ID: LCSD 880-92154/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 92241

Spike LCSD LCSD %Rec RPD Added Result Qualifier RPD Limit Analyte Unit D %Rec Limits Chloride 250 250.0 mg/Kg 100 0

Lab Sample ID: 880-49110-8 MS Client Sample ID: S-7 (1') **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 92241

MS MS %Rec Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chloride 648 250 882.6 90 - 110 mg/Kg

Lab Sample ID: 880-49110-8 MSD Client Sample ID: S-7 (1') **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 92241

Sample Sample MSD MSD RPD Spike %Rec Analyte Result Qualifier Added Qualifier Unit %Rec RPD Limit Result Limits Chloride 648 250 884.8 95 90 - 110 20 mg/Kg

Client: Crain Environmental Job ID: 880-49110-1
Project/Site: ARU #13 SDG: Lea Co., NM

GC VOA

Prep Batch: 92095

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49110-1	S-1 (0-6")	Total/NA	Solid	5035	
880-49110-2	S-1 (1')	Total/NA	Solid	5035	
880-49110-3	S-1 (3')	Total/NA	Solid	5035	
880-49110-4	S-6 (0-6")	Total/NA	Solid	5035	
880-49110-5	S-6 (1')	Total/NA	Solid	5035	
880-49110-6	S-6 (3')	Total/NA	Solid	5035	
880-49110-7	S-7 (0-6")	Total/NA	Solid	5035	
880-49110-8	S-7 (1')	Total/NA	Solid	5035	
880-49110-9	S-7 (2.5')	Total/NA	Solid	5035	
880-49110-10	S-8 (0-6")	Total/NA	Solid	5035	
880-49110-11	S-8 (1')	Total/NA	Solid	5035	
880-49110-12	S-8 (2.5')	Total/NA	Solid	5035	
880-49110-13	S-9 (0-6")	Total/NA	Solid	5035	
880-49110-14	S-9 (1')	Total/NA	Solid	5035	
880-49110-15	S-9 (3')	Total/NA	Solid	5035	
MB 880-92095/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-92095/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-92095/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 92215

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49110-1	S-1 (0-6")	Total/NA	Solid	8021B	92095
880-49110-2	S-1 (1')	Total/NA	Solid	8021B	92095
880-49110-3	S-1 (3')	Total/NA	Solid	8021B	92095
880-49110-4	S-6 (0-6")	Total/NA	Solid	8021B	92095
880-49110-5	S-6 (1')	Total/NA	Solid	8021B	92095
880-49110-6	S-6 (3')	Total/NA	Solid	8021B	92095
880-49110-7	S-7 (0-6")	Total/NA	Solid	8021B	92095
880-49110-8	S-7 (1')	Total/NA	Solid	8021B	92095
880-49110-9	S-7 (2.5')	Total/NA	Solid	8021B	92095
880-49110-10	S-8 (0-6")	Total/NA	Solid	8021B	92095
880-49110-11	S-8 (1')	Total/NA	Solid	8021B	92095
880-49110-12	S-8 (2.5')	Total/NA	Solid	8021B	92095
880-49110-13	S-9 (0-6")	Total/NA	Solid	8021B	92095
880-49110-14	S-9 (1')	Total/NA	Solid	8021B	92095
880-49110-15	S-9 (3')	Total/NA	Solid	8021B	92095
MB 880-92095/5-A	Method Blank	Total/NA	Solid	8021B	92095
LCS 880-92095/1-A	Lab Control Sample	Total/NA	Solid	8021B	92095
LCSD 880-92095/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	92095

Analysis Batch: 92301

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49110-1	S-1 (0-6")	Total/NA	Solid	Total BTEX	
880-49110-2	S-1 (1')	Total/NA	Solid	Total BTEX	
880-49110-3	S-1 (3')	Total/NA	Solid	Total BTEX	
880-49110-4	S-6 (0-6")	Total/NA	Solid	Total BTEX	
880-49110-5	S-6 (1')	Total/NA	Solid	Total BTEX	
880-49110-6	S-6 (3')	Total/NA	Solid	Total BTEX	
880-49110-7	S-7 (0-6")	Total/NA	Solid	Total BTEX	
880-49110-8	S-7 (1')	Total/NA	Solid	Total BTEX	
880-49110-9	S-7 (2.5')	Total/NA	Solid	Total BTEX	

Eurofins Midland

3 0) 100

IM

3

6

8

9

11

12

Client: Crain Environmental Job ID: 880-49110-1
Project/Site: ARU #13 SDG: Lea Co., NM

GC VOA (Continued)

Analysis Batch: 92301 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49110-10	S-8 (0-6")	Total/NA	Solid	Total BTEX	
880-49110-11	S-8 (1')	Total/NA	Solid	Total BTEX	
880-49110-12	S-8 (2.5')	Total/NA	Solid	Total BTEX	
880-49110-13	S-9 (0-6")	Total/NA	Solid	Total BTEX	
880-49110-14	S-9 (1')	Total/NA	Solid	Total BTEX	
880-49110-15	S-9 (3')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 92042

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49110-1	S-1 (0-6")	Total/NA	Solid	8015NM Prep	
880-49110-2	S-1 (1')	Total/NA	Solid	8015NM Prep	
880-49110-3	S-1 (3')	Total/NA	Solid	8015NM Prep	
880-49110-4	S-6 (0-6")	Total/NA	Solid	8015NM Prep	
880-49110-5	S-6 (1')	Total/NA	Solid	8015NM Prep	
880-49110-6	S-6 (3')	Total/NA	Solid	8015NM Prep	
880-49110-7	S-7 (0-6")	Total/NA	Solid	8015NM Prep	
880-49110-8	S-7 (1')	Total/NA	Solid	8015NM Prep	
880-49110-9	S-7 (2.5')	Total/NA	Solid	8015NM Prep	
MB 880-92042/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-92042/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-92042/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-49110-2 MS	S-1 (1')	Total/NA	Solid	8015NM Prep	
880-49110-2 MSD	S-1 (1')	Total/NA	Solid	8015NM Prep	

Prep Batch: 92043

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49110-10	S-8 (0-6")	Total/NA	Solid	8015NM Prep	
880-49110-11	S-8 (1')	Total/NA	Solid	8015NM Prep	
880-49110-12	S-8 (2.5')	Total/NA	Solid	8015NM Prep	
880-49110-13	S-9 (0-6")	Total/NA	Solid	8015NM Prep	
880-49110-14	S-9 (1')	Total/NA	Solid	8015NM Prep	
880-49110-15	S-9 (3')	Total/NA	Solid	8015NM Prep	
MB 880-92043/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-92043/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-92043/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-49110-10 MS	S-8 (0-6")	Total/NA	Solid	8015NM Prep	
880-49110-10 MSD	S-8 (0-6")	Total/NA	Solid	8015NM Prep	

Analysis Batch: 92281

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49110-1	S-1 (0-6")	Total/NA	Solid	8015B NM	92042
880-49110-2	S-1 (1')	Total/NA	Solid	8015B NM	92042
880-49110-3	S-1 (3')	Total/NA	Solid	8015B NM	92042
880-49110-4	S-6 (0-6")	Total/NA	Solid	8015B NM	92042
880-49110-5	S-6 (1')	Total/NA	Solid	8015B NM	92042
880-49110-6	S-6 (3')	Total/NA	Solid	8015B NM	92042
880-49110-7	S-7 (0-6")	Total/NA	Solid	8015B NM	92042
880-49110-8	S-7 (1')	Total/NA	Solid	8015B NM	92042
880-49110-9	S-7 (2.5')	Total/NA	Solid	8015B NM	92042

Eurofins Midland

1

3

4

6

8

9

4 4

12

13

Client: Crain Environmental

Project/Site: ARU #13

Job ID: 880-49110-1

SDG: Lea Co., NM

GC Semi VOA (Continued)

Analysis Batch: 92281 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-92042/1-A	Method Blank	Total/NA	Solid	8015B NM	92042
LCS 880-92042/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	92042
LCSD 880-92042/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	92042
880-49110-2 MS	S-1 (1')	Total/NA	Solid	8015B NM	92042
880-49110-2 MSD	S-1 (1')	Total/NA	Solid	8015B NM	92042

Analysis Batch: 92415

Prep Batch	Method	Matrix	Prep Type	Client Sample ID	Lab Sample ID
_	8015 NM	Solid	Total/NA	S-1 (0-6")	880-49110-1
	8015 NM	Solid	Total/NA	S-1 (1')	880-49110-2
	8015 NM	Solid	Total/NA	S-1 (3')	880-49110-3
	8015 NM	Solid	Total/NA	S-6 (0-6")	880-49110-4
	8015 NM	Solid	Total/NA	S-6 (1')	880-49110-5
	8015 NM	Solid	Total/NA	S-6 (3')	880-49110-6
	8015 NM	Solid	Total/NA	S-7 (0-6")	880-49110-7
	8015 NM	Solid	Total/NA	S-7 (1')	880-49110-8
	8015 NM	Solid	Total/NA	S-7 (2.5')	880-49110-9
	8015 NM	Solid	Total/NA	S-8 (0-6")	880-49110-10
	8015 NM	Solid	Total/NA	S-8 (1')	880-49110-11
	8015 NM	Solid	Total/NA	S-8 (2.5')	880-49110-12
	8015 NM	Solid	Total/NA	S-9 (0-6")	880-49110-13
	8015 NM	Solid	Total/NA	S-9 (1')	880-49110-14
	8015 NM	Solid	Total/NA	S-9 (3')	880-49110-15

Analysis Batch: 92506

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49110-10	S-8 (0-6")	Total/NA	Solid	8015B NM	92043
880-49110-11	S-8 (1')	Total/NA	Solid	8015B NM	92043
880-49110-12	S-8 (2.5')	Total/NA	Solid	8015B NM	92043
880-49110-13	S-9 (0-6")	Total/NA	Solid	8015B NM	92043
880-49110-14	S-9 (1')	Total/NA	Solid	8015B NM	92043
880-49110-15	S-9 (3')	Total/NA	Solid	8015B NM	92043
MB 880-92043/1-A	Method Blank	Total/NA	Solid	8015B NM	92043
LCS 880-92043/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	92043
LCSD 880-92043/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	92043
880-49110-10 MS	S-8 (0-6")	Total/NA	Solid	8015B NM	92043
880-49110-10 MSD	S-8 (0-6")	Total/NA	Solid	8015B NM	92043

HPLC/IC

Leach Batch: 92154

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49110-1	S-1 (0-6")	Soluble	Solid	DI Leach	
880-49110-2	S-1 (1')	Soluble	Solid	DI Leach	
880-49110-3	S-1 (3')	Soluble	Solid	DI Leach	
880-49110-4	S-6 (0-6")	Soluble	Solid	DI Leach	
880-49110-5	S-6 (1')	Soluble	Solid	DI Leach	
880-49110-6	S-6 (3')	Soluble	Solid	DI Leach	
880-49110-7	S-7 (0-6")	Soluble	Solid	DI Leach	
880-49110-8	S-7 (1')	Soluble	Solid	DI Leach	
880-49110-9	S-7 (2.5')	Soluble	Solid	DI Leach	

Eurofins Midland

1

2

5

7

10

14

1.4

Client: Crain Environmental Job ID: 880-49110-1
Project/Site: ARU #13 SDG: Lea Co., NM

HPLC/IC (Continued)

Leach Batch: 92154 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49110-10	S-8 (0-6")	Soluble	Solid	DI Leach	
880-49110-11	S-8 (1')	Soluble	Solid	DI Leach	
880-49110-12	S-8 (2.5')	Soluble	Solid	DI Leach	
880-49110-13	S-9 (0-6")	Soluble	Solid	DI Leach	
880-49110-14	S-9 (1')	Soluble	Solid	DI Leach	
880-49110-15	S-9 (3')	Soluble	Solid	DI Leach	
MB 880-92154/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-92154/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-92154/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-49110-8 MS	S-7 (1')	Soluble	Solid	DI Leach	
880-49110-8 MSD	S-7 (1')	Soluble	Solid	DI Leach	

Analysis Batch: 92241

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49110-1	S-1 (0-6")	Soluble	Solid	300.0	92154
880-49110-2	S-1 (1')	Soluble Solid 300.0 Soluble Solid 300.0 Soluble Solid 300.0	92154		
880-49110-3	S-1 (3')		Solid	300.0	92154
880-49110-4	S-6 (0-6")		Solid	300.0	92154
880-49110-5	S-6 (1')	Soluble	Solid	300.0	92154
880-49110-6	S-6 (3')	Soluble	Solid	300.0	92154
880-49110-7	S-7 (0-6")	Soluble	Solid	300.0	92154
380-49110-8 S-7 (1')		Soluble	Solid	300.0	92154
880-49110-9	S-7 (2.5')	Soluble	Solid	300.0	92154
880-49110-10	S-8 (0-6")	Soluble	Solid	300.0	92154
880-49110-11	S-8 (1')	Soluble	Solid	300.0	92154
880-49110-12	S-8 (2.5')	Soluble	Solid	300.0	92154
880-49110-13	S-9 (0-6")	Soluble	Solid	300.0	92154
880-49110-14	S-9 (1')	Soluble	Solid	300.0	92154
880-49110-15	S-9 (3')	Soluble	Solid	300.0	92154
MB 880-92154/1-A	Method Blank	Soluble	Solid	300.0	92154
LCS 880-92154/2-A	Lab Control Sample	Soluble	Solid	300.0	92154
LCSD 880-92154/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	92154
880-49110-8 MS	S-7 (1')	Soluble	Solid	300.0	92154
880-49110-8 MSD	S-7 (1')	Soluble	Solid	300.0	92154

Eurofins Midland

1

3

5

Ω

9

1 0

12

Job ID: 880-49110-1

SDG: Lea Co., NM

Client Sample ID: S-1 (0-6")

Date Collected: 09/25/24 13:55 Date Received: 09/27/24 13:45 Lab Sample ID: 880-49110-1

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			4.97 g	5 mL	92095	09/30/24 10:08	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92215	10/01/24 13:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			92301	10/01/24 13:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			92415	10/02/24 02:11	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10.00 mL	92042	09/29/24 20:34	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92281	10/02/24 02:11	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	92154	09/30/24 13:18	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	92241	10/02/24 06:22	CH	EET MID

Lab Sample ID: 880-49110-2

Matrix: Solid

Date Collected: 09/25/24 14:00 Date Received: 09/27/24 13:45

Client Sample ID: S-1 (1')

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	92095	09/30/24 10:08	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92215	10/01/24 14:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			92301	10/01/24 14:04	SM	EET MID
Total/NA	Analysis	8015 NM		1			92415	10/01/24 22:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10.00 mL	92042	09/29/24 20:34	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92281	10/01/24 22:27	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	92154	09/30/24 13:18	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	92241	10/02/24 06:27	CH	EET MID

Client Sample ID: S-1 (3') Lab Sample ID: 880-49110-3 Date Collected: 09/25/24 14:05 **Matrix: Solid**

Date Received: 09/27/24 13:45

	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	92095	09/30/24 10:08	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92215	10/01/24 14:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			92301	10/01/24 14:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			92415	10/02/24 02:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10.00 mL	92042	09/29/24 20:34	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92281	10/02/24 02:25	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	92154	09/30/24 13:18	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	92241	10/02/24 06:44	CH	EET MID

Client Sample ID: S-6 (0-6") Lab Sample ID: 880-49110-4 Date Collected: 09/25/24 12:45 **Matrix: Solid**

Date Received: 09/27/24 13:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	92095	09/30/24 10:08	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92215	10/01/24 14:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			92301	10/01/24 14:45	SM	EET MID

Eurofins Midland

Page 29 of 39

Client: Crain Environmental Project/Site: ARU #13

Job ID: 880-49110-1 SDG: Lea Co., NM

Client Sample ID: S-6 (0-6")

Lab Sample ID: 880-49110-4

Date Collected: 09/25/24 12:45 Date Received: 09/27/24 13:45 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			92415	10/02/24 02:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10.00 mL	92042	09/29/24 20:34	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92281	10/02/24 02:40	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	92154	09/30/24 13:18	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	92241	10/02/24 06:49	СН	EET MID

Lab Sample ID: 880-49110-5

Client Sample ID: S-6 (1') Date Collected: 09/25/24 12:50 **Matrix: Solid**

Date Received: 09/27/24 13:45

	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	92095	09/30/24 10:08	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92215	10/01/24 15:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			92301	10/01/24 15:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			92415	10/02/24 02:54	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10.00 mL	92042	09/29/24 20:34	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92281	10/02/24 02:54	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	92154	09/30/24 13:18	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	92241	10/02/24 06:54	CH	EET MID

Client Sample ID: S-6 (3') Lab Sample ID: 880-49110-6

Date Collected: 09/25/24 12:55 **Matrix: Solid** Date Received: 09/27/24 13:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	92095	09/30/24 10:08	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92215	10/01/24 16:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			92301	10/01/24 16:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			92415	10/02/24 03:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10.00 mL	92042	09/29/24 20:34	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92281	10/02/24 03:10	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	92154	09/30/24 13:18	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	92241	10/02/24 07:00	CH	EET MID

Lab Sample ID: 880-49110-7 Client Sample ID: S-7 (0-6")

Date Received: 09/27/24 13:45

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	92095	09/30/24 10:08	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92215	10/01/24 17:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			92301	10/01/24 17:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			92415	10/02/24 03:24	SM	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.01 g 1 uL	10.00 mL 1 uL	92042 92281	09/29/24 20:34 10/02/24 03:24	EL TKC	EET MID

Eurofins Midland

Matrix: Solid

Date Collected: 09/25/24 13:10

Client: Crain Environmental Project/Site: ARU #13

Job ID: 880-49110-1 SDG: Lea Co., NM

Lab Sample ID: 880-49110-7

Matrix: Solid

Client Sample ID: S-7 (0-6")

Date Collected: 09/25/24 13:10 Date Received: 09/27/24 13:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.00 g	50 mL	92154	09/30/24 13:18	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	92241	10/02/24 07:05	CH	EET MID

Client Sample ID: S-7 (1') Lab Sample ID: 880-49110-8

Matrix: Solid

Date Collected: 09/25/24 13:15 Date Received: 09/27/24 13:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	92095	09/30/24 10:08	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92215	10/01/24 17:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			92301	10/01/24 17:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			92415	10/02/24 03:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10.00 mL	92042	09/29/24 20:34	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92281	10/02/24 03:40	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	92154	09/30/24 13:18	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	92241	10/02/24 07:11	CH	EET MID

Client Sample ID: S-7 (2.5') Lab Sample ID: 880-49110-9 Date Collected: 09/25/24 13:20 **Matrix: Solid**

Date Received: 09/27/24 13:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	92095	09/30/24 10:08	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92215	10/01/24 17:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			92301	10/01/24 17:43	SM	EET MID
Total/NA	Analysis	8015 NM		1			92415	10/02/24 03:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10.00 mL	92042	09/29/24 20:34	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92281	10/02/24 03:55	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	92154	09/30/24 13:18	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	92241	10/02/24 07:27	CH	EET MID

Client Sample ID: S-8 (0-6") Lab Sample ID: 880-49110-10

Date Collected: 09/25/24 13:30 Date Received: 09/27/24 13:45

	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	92095	09/30/24 10:08	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92215	10/01/24 18:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			92301	10/01/24 18:04	SM	EET MID
Total/NA	Analysis	8015 NM		1			92415	10/03/24 17:28	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10.00 mL	92043	09/29/24 20:37	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92506	10/03/24 17:28	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	92154	09/30/24 13:18	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	92241	10/02/24 07:32	CH	EET MID

Eurofins Midland

Matrix: Solid

Job ID: 880-49110-1 SDG: Lea Co., NM

Lab Sample ID: 880-49110-11

Matrix: Solid

Client Sample ID: S-8 (1')

Date Collected: 09/25/24 13:35 Date Received: 09/27/24 13:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	92095	09/30/24 10:08	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92215	10/01/24 18:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			92301	10/01/24 18:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			92415	10/03/24 18:17	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10.00 mL	92043	09/29/24 20:37	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92506	10/03/24 18:17	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	92154	09/30/24 13:18	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	92241	10/02/24 07:48	CH	EET MID

Client Sample ID: S-8 (2.5') Lab Sample ID: 880-49110-12 Date Collected: 09/25/24 13:40 Matrix: Solid

Date Received: 09/27/24 13:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	92095	09/30/24 10:08	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92215	10/01/24 18:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			92301	10/01/24 18:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			92415	10/03/24 18:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10.00 mL	92043	09/29/24 20:37	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92506	10/03/24 18:34	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	92154	09/30/24 13:18	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	92241	10/02/24 07:54	CH	EET MID

Client Sample ID: S-9 (0-6") Lab Sample ID: 880-49110-13

Date Collected: 09/25/24 12:25 Date Received: 09/27/24 13:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	92095	09/30/24 10:08	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92215	10/01/24 19:05	MNR	EET MIC
Total/NA	Analysis	Total BTEX		1			92301	10/01/24 19:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			92415	10/03/24 18:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10.00 mL	92043	09/29/24 20:37	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92506	10/03/24 18:51	TKC	EET MIC
Soluble	Leach	DI Leach			4.99 g	50 mL	92154	09/30/24 13:18	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	92241	10/02/24 08:12	CH	EET MID

Client Sample ID: S-9 (1') Lab Sample ID: 880-49110-14 Date Collected: 09/25/24 12:30 **Matrix: Solid**

Date Received: 09/27/24 13:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	92095	09/30/24 10:08	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92215	10/01/24 19:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			92301	10/01/24 19:25	SM	EET MID

Eurofins Midland

Matrix: Solid

Page 32 of 39

Client: Crain Environmental Project/Site: ARU #13

Job ID: 880-49110-1

SDG: Lea Co., NM

Client Sample ID: S-9 (1')

Date Collected: 09/25/24 12:30 Date Received: 09/27/24 13:45 Lab Sample ID: 880-49110-14

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			92415	10/03/24 19:08	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10.00 mL	92043	09/29/24 20:37	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92506	10/03/24 19:08	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	92154	09/30/24 13:18	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	92241	10/02/24 08:00	CH	EET MID

Lab Sample ID: 880-49110-15

Matrix: Solid

Date Collected: 09/25/24 12:35 Date Received: 09/27/24 13:45

Client Sample ID: S-9 (3')

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	92095	09/30/24 10:08	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92215	10/01/24 19:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			92301	10/01/24 19:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			92415	10/03/24 19:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10.00 mL	92043	09/29/24 20:37	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92506	10/03/24 19:25	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	92154	09/30/24 13:18	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	92241	10/02/24 09:03	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Crain Environmental Job ID: 880-49110-1
Project/Site: ARU #13 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	06-30-25
• ,	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	

2

3

4

6

7

9

10

12

Method Summary

Client: Crain Environmental Project/Site: ARU #13

Job ID: 880-49110-1 SDG: Lea Co., NM

200 00., 11111	
ratory	

Method	Method Description	Protocol	Laboratory
3021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
3015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
3015B 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
I 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

Eurofins Midland

3

-5

0

Ω

9

11

Sample Summary

Client: Crain Environmental Project/Site: ARU #13

Job ID: 880-49110-1 SDG: Lea Co., NM

5

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-49110-1	S-1 (0-6")	Solid	09/25/24 13:55	09/27/24 13:45	0-6"
880-49110-2	S-1 (1')	Solid	09/25/24 14:00	09/27/24 13:45	1'
880-49110-3	S-1 (3')	Solid	09/25/24 14:05	09/27/24 13:45	3'
880-49110-4	S-6 (0-6")	Solid	09/25/24 12:45	09/27/24 13:45	0-6"
880-49110-5	S-6 (1')	Solid	09/25/24 12:50	09/27/24 13:45	1'
880-49110-6	S-6 (3')	Solid	09/25/24 12:55	09/27/24 13:45	3'
880-49110-7	S-7 (0-6")	Solid	09/25/24 13:10	09/27/24 13:45	0-6"
880-49110-8	S-7 (1')	Solid	09/25/24 13:15	09/27/24 13:45	1'
880-49110-9	S-7 (2.5')	Solid	09/25/24 13:20	09/27/24 13:45	2.5'
880-49110-10	S-8 (0-6")	Solid	09/25/24 13:30	09/27/24 13:45	0-6"
880-49110-11	S-8 (1')	Solid	09/25/24 13:35	09/27/24 13:45	1'
880-49110-12	S-8 (2.5')	Solid	09/25/24 13:40	09/27/24 13:45	2.5'
880-49110-13	S-9 (0-6")	Solid	09/25/24 12:25	09/27/24 13:45	0-6"
880-49110-14	S-9 (1')	Solid	09/25/24 12:30	09/27/24 13:45	1'
880-49110-15	S-9 (3')	Solid	09/25/24 12:35	09/27/24 13:45	3'



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

880-49110 Chain of Custody	
----------------------------	--

			73, 14141 (3		, , , , , ,	arisbaa,	14101 (373)					,	www.xenc	o.com	Page _	_	_		
Project Manager:	Gindy Co	ain		Bill to: (if differen	nt)	C	ris	Gas	dy						Work O	rder Co	mments		
Company Name:	Crain Con	comente	V	Company Name	2:		tan					Progra	ım: l	UST/PS	T PRP	Brov	wnfields 🗌	RRC Sup	erfund
Address:	2925 C.	174 St.		Address:		310	W.	Wal	1, 5h	. 301	2	State	of Proje	ct:	NM				
City, State ZIP:	Ode 55a	TX 797	101	City, State ZIP:						797	701	Repor	Reporting: Level II						
Phone:	(575) 44)	1-7244	Email:	ili Cindy, Crain @ gmail. con					Delive	Deliverables: EDD ADaPT Other:									
Project Name:	ARU # 13	3		rn Around ANALYSIS REQUE:					EST	ST					Preservative Codes				
Project Number:	_		Routine	Rush	Pres. Code												None: NO	DI Wa	ter: H₂O
Project Location:	Lea Co. A		Due Date:														Cool: Cool	MeOH:	Me
Sampler's Name:	Ciraly Cra	in		day received by										- 1			HCL: HC	HNO 3:	HN
PO #: the lab, if			the lab, if rec	eived by 4:30pm	2												H ₂ SO ₄ : H ₂	NaOH:	Na
SAMPLE RECEIPT	Temp Blai	nk: Yes N	Wet Ice:	Yes No	Parameters									l			H₃PO ₄: HP		
Samples Received Intac		^	meter ID:	IRS	aran	8015M		N									NaHSO ₄: N		
Cooler Custody Seals:	1		ion Factor:	21		6		20									Na ₂ S ₂ O ₃ : N		
Sample Custody Seals: Total Containers:	Yes No (1		rature Reading:	3.0	-		3	3									Zn Acetate	+NaOH: Zn orbic Acid: SAP	_
Total Containers:			ed Temperature:	l C-b		HAL	7	2 Sociale									NaOHTASCO	OTDIC ACIO: SAP	
Sample Identif	ication	Matrix Sample		Depth Grab/	# of Cont	K	B	0									Samp	le Comment	5
5-1 (0-6"		5 9/25	24 1355	0.6" C		\times	\times	\times											
5-1 (1.)			1400	1'															
5-1 (3.)			1405	3'															
5-6 10-6	")		1245	0-6"															
5-4 (1)			1250	1'															
5-6 (3)			1255	3'															
5-7 (0.6	")		1310	0.6"															
5-7 (1.)			1315	1'															
5-7 (2.5	')		1320	2.5'															
5-8 10-6	,")	ψ	1330	0.6"	V	V	V	V											
Total 200.7 / 6010	200.8 / 602	20:	8RCRA 13PI	PM Texas 11	Al Sb	As B	a Be	B Cd	Ca Cr	Co Cu F	e Pb Mg	Mn M	o Ni	K Se	Ag SiO ₂	Na Sr	TI Sn U \	/ Zn	
Circle Method(s) a	nd Metal(s) to b	e analyzed	TCLP / S	PLP 6010 : 8R	CRA S	b As	Ba Be	e Cd (Cr Co C	u Pb Mr	Mo Ni S	se Ag T	l U	H	lg: 1631 /	245.1	/7470 /74	171	
Notice: Signature of this docur of service. Eurofins Xenco will of Eurofins Xenco. A minimum	be liable only for the cos	at of samples and sh	Il not assume any respons	onsibility for any losses	or expen	ses incum	ed by th	e client if	such losses	are due to cin	cumstances be	yond the co	ntrol	ed.					
Relipquished by:			ed by: (Signatur			Date					oy: (Signatu				ed by: (Sig	gnature)	Date/Time	
1 / 1	A Chia		1	(1/2-	Bu	12	45	2										
3			9		1/2	1)	4										
5									6										
			1	-	1								L				Revis	ed Date: 08/25/2020 R	ev. 2020 2











Environment Testing Xenco

Chain of Custody

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

Work Order No:	491	10	
----------------	-----	----	--

					Hobbs,	, NM (57	'5) 392-7	7550, Ca	arlsbad,	NM (575)	988-3199					1	www.xe	nco.con	n Page	2 of	2
Project Manager:	Cimp Cre	ain		Bill to: (if	different)		0	bris	6	udde									Comments		
Company Name:	Crain Envi	mmental		Company	y Name:		0	CtA	ne	Cradely Work Order Comment Program: UST/PST □ PRP□ Brownfields				ownfields 🗌	RRC 🗌	Superfund					
Address:	2925 E. 1	The St.		Address:			310 W. Wall Ste. 300 State of Project: NM Midland TX 79701 Reporting: Level II Level III PST														
City, State ZIP:	Odessa.	TX 7974	1	City, State	te ZIP:	- 1	Mi	dh	w :	TX	7976	01		Repo	rting:	Level II [Leve	1111	PST/UST 🗌	TRRP	Level IV
Phone:	(575) 441.	7244	Email:	Cin	rdy. C.	rain								Deliv	erable	: ED(ADa	aPT 🗌	Other:	
Project Name:	ARU #13		Turn	Around			- 0			i i i	AN	ALYSIS F	REQU	EST					Pres	ervative Co	odes
Project Number:	_		Routine	Rush	1	Pres. Code													None: NO		Water: H ₂ O
Project Location:	Lea Co. N.	М	Due Date:																Cool: Cool		OH: Me
Sampler's Name:	Cirdy Crair		TAT starts the																HCL: HC	HN	O 3: HN OH: Na
SAMPLE RECEIPT	Temp Blank	c: Yes No	Wet Ice:	Yes	No	ters													H₃PO ₄: HI		
Samples Received Inta		Thermomet				Parameters	7												NaHSO 4:		
Cooler Custody Seals:	Yes No N/	A Correction F	actor:			Pa	3		3										Na 2S 2O 3:		
Sample Custody Seals:	: Yes No N/	A Temperatur	e Reading:				8015.		is										Zn Acetat	e+NaOH: Zn	
Total Containers:		Corrected T	emperature:				H	D	laides										NaOH+As	corbic Acid:	SAPC
Sample Identi	ification	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	HOLL	BTEX	Ch.										Sam	ple Comm	ents
5-8 (1.)		5 9/25/24	1335	1'	C	J	\times	\times	\times												
5-8 (2.5	(,0	1 3	1340	2.5'																	
5-9 (0.6	(")		1225	0-6"																	
5-9 (0.6 5-9 (1) 5-9 (3)			1230	11																	
5-9 (3))	VV	1235	3'	V	V	V	¥	V												
													1								
														1							
Total 200.7 / 601 Circle Method(s) a			RCRA 13PF	PM Texa									_				-	_	r Tl Sn U 1 / 7470 / 7		
Notice: Signature of this docu of service. Eurofins Xenco wi of Eurofins Xenco. A minimum	fill be liable only for the cost of	of samples and shall not	assume any respo	onsibility for a	iny losses o	r expens	es Incurre	d by the	dient if	such losse	s are due to	circumstan	ces bey	ond the c	ontrol	ted.					
Relinquished by.	(Signature)	Received I	oy: (Signatur	e)		TI	Date/	Time		Reli	nquished	by: (Sig	gnatu	re)		Receiv	ed by: (S	Signatur	re)	Date/Ti	me
(indy (ai	10	3		C	(/2	7 12	P	S	2											
;		-				,	,			6					1						

Login Sample Receipt Checklist

Client: Crain Environmental Job Number: 880-49110-1 SDG Number: Lea Co., NM

Login Number: 49110 **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	
ls 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 1/21/2025 12:39:30 PM

JOB DESCRIPTION

ARU 13 Lea Co. NM

JOB NUMBER

880-53354-1

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 1/21/2025 12:39:30 PM

Authorized for release by Jessica Kramer, Project Manager <u>Jessica.Kramer@et.eurofinsus.com</u> (432)704-5440 3

O

0

0

0

13

Client: Crain Environmental
Project/Site: ARU 13
Laboratory Job ID: 880-53354-1
SDG: Lea Co. NM

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	19
QC Sample Results	21
QC Association Summary	24
Lab Chronicle	28
Certification Summary	33
Method Summary	34
Sample Summary	35
Chain of Custody	36
Receipt Checklists	38

è	

Definitions/Glossary

Client: Crain Environmental Job ID: 880-53354-1
Project/Site: ARU 13 SDG: Lea Co. NM

Qualifiers

GC VOA

Qualifier Description

U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

U Indicates the analyte was analyzed for but not detected.

HPLC/IC

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.

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

%R Percent Recovery

CFL Contains Free Liquid

CFU Colony Forming Unit

CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

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

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Eurofins Midland

•

3

4

0

8

10

12

Job ID: 880-53354-1

Case Narrative

Client: Crain Environmental

Project: ARU 13

Eurofins Midland Job ID: 880-53354-1

Job Narrative 880-53354-1

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 1/17/2025 8:27 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.8°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: S-10 (0-1') (880-53354-1), S-11 (0-1') (880-53354-2), S-12 (0-1') (880-53354-3), S-13 (0-1') (880-53354-4), S-14 (0-4') (880-53354-5), S-15 (0-4') (880-53354-6), S-16 (0-4') (880-53354-7), S-17 (0-4') (880-53354-8), S-18 (0-4') (880-53354-9), S-19 (0-4') (880-53354-10), S-20 (0-4') (880-53354-11), S-21 (0-4') (880-53354-12), S-22 (4.1') (880-53354-13), S-23 (4.1') (880-53354-14), S-24 (4.1') (880-53354-15) and S-25 (4.1') (880-53354-16).

GC VOA

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

Diesel Range Organics

Method 8015MOD NM: The continuing calibration verification (CCV) associated with batch 880-100652 recovered above the upper control limit for Diesel Range Organics (Over C10-C28). An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-100652/21).

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.

Client: Crain Environmental

Method: SW846 8021B - Volatile Organic Compounds (GC)

Job ID: 880-53354-1

Matrix: Solid

SDG: Lea Co. NM

Lab Sample ID: 880-53354-1

01/17/25 09:29

01/20/25 13:10

Lab Sample ID: 880-53354-2

Client Sample ID: S-10 (0-1')

Date Collected: 01/15/25 14:40 Date Received: 01/17/25 08:27

Sample Depth: 0-1'

Project/Site: ARU 13

	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/17/25 10:45	01/17/25 15:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/17/25 10:45	01/17/25 15:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/17/25 10:45	01/17/25 15:49	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/17/25 10:45	01/17/25 15:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/17/25 10:45	01/17/25 15:49	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/17/25 10:45	01/17/25 15:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130				01/17/25 10:45	01/17/25 15:49	1
1,4-Difluorobenzene (Surr)	98		70 - 130				01/17/25 10:45	01/17/25 15:49	1
		culation							
Analyte			RI	MDI	Unit	n	Prenared	Analyzed	Dil Fac
Analyte		Qualifier	RL 0.00399	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 01/17/25 15:49	Dil Fac
Analyte Total BTEX Method: SW846 8015 NM - Diesel Rangenalyte	Result <0.00399	Qualifier U	0.00399			<u>D</u>	Prepared Prepared		1
Total BTEX Method: SW846 8015 NM - Diesel Range	Result <0.00399	Qualifier U ics (DRO) (C	0.00399 GC)		mg/Kg		· ·	01/17/25 15:49	1
Total BTEX Method: SW846 8015 NM - Diesel Range Analyte Total TPH	Result <0.00399 ge Organi Result <50.0	Qualifier U ics (DRO) (Comparison Qualifier U	0.00399 GC) RL 50.0		mg/Kg		· ·	01/17/25 15:49 Analyzed	1
Total BTEX Method: SW846 8015 NM - Diesel Rangenalyte	Result <0.00399 ge Organi Result <50.0	Qualifier U ics (DRO) (Comparison Qualifier U	0.00399 GC) RL 50.0	MDL	mg/Kg		· ·	01/17/25 15:49 Analyzed	Dil Fac
Method: SW846 8015 NM - Diesel Range Analyte Total TPH Method: SW846 8015B NM - Diesel Range Analyte	Result <0.00399 ge Organi Result <50.0	Qualifier U ics (DRO) (Qualifier U nics (DRO) Qualifier	0.00399 GC) RL 50.0 (GC)	MDL	mg/Kg Unit mg/Kg	<u>D</u>	Prepared	01/17/25 15:49 Analyzed 01/20/25 13:10	Dil Fac
Method: SW846 8015 NM - Diesel Range Analyte Total TPH Method: SW846 8015B NM - Diesel Range Analyte	Result <0.00399 ge Organi Result <50.0 nge Orga Result	Qualifier U ics (DRO) (Qualifier U nics (DRO) Qualifier	0.00399 RL 50.0 (GC) RL	MDL	mg/Kg Unit mg/Kg Unit	<u>D</u>	Prepared Prepared	01/17/25 15:49 Analyzed 01/20/25 13:10 Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	122		70 - 130	01/17/25 09:29	01/20/25 13:10	1
o-Terphenyl	122		70 - 130	01/17/25 09:29	01/20/25 13:10	1

50.0

mg/Kg

<50.0 U

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL MDL Unit D Prepared Dil Fac Analyzed Chloride <10.0 U 10.0 01/20/25 13:59 mg/Kg

Client Sample ID: S-11 (0-1') Date Collected: 01/15/25 14:45 Date Received: 01/17/25 08:27

Oil Range Organics (Over C28-C36)

Sample Depth: 0-1'

C10-C28)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/17/25 10:45	01/17/25 16:15	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/17/25 10:45	01/17/25 16:15	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/17/25 10:45	01/17/25 16:15	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/17/25 10:45	01/17/25 16:15	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/17/25 10:45	01/17/25 16:15	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/17/25 10:45	01/17/25 16:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				01/17/25 10:45	01/17/25 16:15	1

Eurofins Midland

Matrix: Solid

Client: Crain Environmental Project/Site: ARU 13

Job ID: 880-53354-1

SDG: Lea Co. NM

Client Sample ID: S-11 (0-1') Lab Sample ID: 880-53354-2 Date Collected: 01/15/25 14:45

Matrix: Solid

Sample Depth: 0-1'

Date Received: 01/17/25 08:27

Method: SW846 8021B - Volati	e Organic Compounds	(GC) (Continued)
------------------------------	---------------------	------------------

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1 4-Difluorobenzene (Surr)	97	70 - 130	01/17/25 10:45	01/17/25 16:15	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/17/25 16:15	1

1					
Mathadi	: SW846 8015 NM	Discal Bange	Organica		CC
i welliou.	IVIVI CI UO OHOVVC	- Diesei Kanue	Organics	וטאטו	1001

Analyte	Result Qua	alifier RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7 U	49.7	mg/Kg			01/20/25 13:27	1

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	<49.7	U	49.7		mg/Kg		01/17/25 09:29	01/20/25 13:27	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		01/17/25 09:29	01/20/25 13:27	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		01/17/25 09:29	01/20/25 13:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepa	ared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130	01/17/25	5 09:29	01/20/25 13:27	1
o-Terphenyl	119		70 - 130	01/17/25	5 09:29	01/20/25 13:27	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<9.98	U	9.98		mg/Kg			01/20/25 14:04	1

Client Sample ID: S-12 (0-1')

Date Collected: 01/15/25 14:50

Date Received: 01/17/25 08:27

Sample Depth: 0-1'

Method: SW846 8021B -	M-1-4!1- O	0 (00)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/17/25 10:45	01/17/25 16:42	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/17/25 10:45	01/17/25 16:42	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/17/25 10:45	01/17/25 16:42	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		01/17/25 10:45	01/17/25 16:42	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/17/25 10:45	01/17/25 16:42	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		01/17/25 10:45	01/17/25 16:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				01/17/25 10:45	01/17/25 16:42	1
1,4-Difluorobenzene (Surr)	100		70 - 130				01/17/25 10:45	01/17/25 16:42	1

Mothod: TAI	SOP Total RTFY	- Total RTFY	Calculation

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00404	U	0.00404	ma/Ka			01/17/25 16:42	1

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

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			01/20/25 13:42	1

Eurofins Midland

Lab Sample ID: 880-53354-3

Matrix: Solid

Matrix: Solid

Job ID: 880-53354-1 SDG: Lea Co. NM

Client: Crain Environmental Project/Site: ARU 13

Client Sample ID: S-12 (0-1') Lab Sample ID: 880-53354-3 Date Collected: 01/15/25 14:50 Date Received: 01/17/25 08:27

Sample Depth: 0-1'
_

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8		mg/Kg		01/17/25 09:29	01/20/25 13:42	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.8	U	49.8		mg/Kg		01/17/25 09:29	01/20/25 13:42	1
C10-C28)									
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/17/25 09:29	01/20/25 13:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	122		70 - 130				01/17/25 09:29	01/20/25 13:42	1
1-Onioroociane							01/17/25 09:29	01/20/25 13:42	

Method: EPA 300.0 - Anions, Ion C	nromatograp	ny - Soluble							
Analyte	Result	Qualifier	RL	MDL Uni	it	D	Prepared	Analyzed	Dil Fac
Chloride	<9.94	U	9.94	mg	/Kg			01/20/25 14:10	1

Client Sample ID: S-13 (0-1') Lab Sample ID: 880-53354-4 Date Collected: 01/15/25 14:55 Matrix: Solid

Date Received: 01/17/25 08:27

Sample Depth: 0-1'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/17/25 10:45	01/17/25 17:08	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/17/25 10:45	01/17/25 17:08	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/17/25 10:45	01/17/25 17:08	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/17/25 10:45	01/17/25 17:08	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/17/25 10:45	01/17/25 17:08	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/17/25 10:45	01/17/25 17:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130				01/17/25 10:45	01/17/25 17:08	1
1,4-Difluorobenzene (Surr)	99		70 - 130				01/17/25 10:45	01/17/25 17:08	1

Method: TAL SOP Total BTEX - Total	al BTEX Calc	ulation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			01/17/25 17:08	1

Method: SW846 8015 NM - Diesel F	Range Organi	cs (DRO) (G	SC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			01/20/25 13:58	1

_		· ·			9,9			0 1/20/20 10:00	
- Method: SW846 8015B NM - Dies									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		01/17/25 09:29	01/20/25 13:58	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		01/17/25 09:29	01/20/25 13:58	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		01/17/25 09:29	01/20/25 13:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4.000			70 100				04/47/05 00 00	04/00/05 40 50	

1-Chlorooctane 117 70 - 130 01/17/25 09:29 01/20/25 13:58 o-Terphenyl 116 70 - 130 01/17/25 09:29 01/20/25 13:58

Eurofins Midland

1/21/2025

Client Sample ID: S-13 (0-1')

Date Collected: 01/15/25 14:55

Date Received: 01/17/25 08:27

Client: Crain Environmental Project/Site: ARU 13

Job ID: 880-53354-1 SDG: Lea Co. NM

Lab Sample ID: 880-53354-4

Matrix: Solid

Sample Depth: 0-1'

Method: EPA 300.0 - Anions, Ion Chr	omatograp	hy - Soluble						
Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0	mg/Kg			01/20/25 14:16	1

Client Sample ID: S-14 (0-4') Lab Sample ID: 880-53354-5

Date Collected: 01/15/25 15:00 Date Received: 01/17/25 08:27

Matrix: Solid

Sample Depth: 0-4'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/17/25 10:45	01/17/25 17:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/17/25 10:45	01/17/25 17:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/17/25 10:45	01/17/25 17:34	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		01/17/25 10:45	01/17/25 17:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/17/25 10:45	01/17/25 17:34	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		01/17/25 10:45	01/17/25 17:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				01/17/25 10:45	01/17/25 17:34	1
1,4-Difluorobenzene (Surr)	101		70 - 130				01/17/25 10:45	01/17/25 17:34	1

Method: TAL SOP Total BTEX - Tot	al BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			01/17/25 17:34	1

Method: SW846 8015 NM - Diesel Range	Organ	ics (DRO) (G0	5)					
Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/20/25 14:13	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/17/25 09:29	01/20/25 14:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/17/25 09:29	01/20/25 14:13	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/17/25 09:29	01/20/25 14:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130				01/17/25 09:29	01/20/25 14:13	1
o-Terphenyl	112		70 ₋ 130				01/17/25 09:29	01/20/25 14:13	1

ethod: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.1	U	10.1		mg/Kg			01/20/25 14:33	1

Client: Crain Environmental Project/Site: ARU 13

Job ID: 880-53354-1

SDG: Lea Co. NM

Client Sample ID: S-15 (0-4') Date Collected: 01/15/25 15:05

Lab Sample ID: 880-53354-6

mg/Kg

01/20/25 14:39

Matrix: Solid

Date Received: 01/17/25 08:27 Sample Depth: 0-4'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/17/25 10:45	01/17/25 18:01	1
Toluene	< 0.00199	U	0.00199		mg/Kg		01/17/25 10:45	01/17/25 18:01	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		01/17/25 10:45	01/17/25 18:01	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/17/25 10:45	01/17/25 18:01	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		01/17/25 10:45	01/17/25 18:01	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/17/25 10:45	01/17/25 18:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130				01/17/25 10:45	01/17/25 18:01	1
1,4-Difluorobenzene (Surr)	99		70 - 130				01/17/25 10:45	01/17/25 18:01	1
- Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/17/25 18:01	1
- Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			01/20/25 14:29	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		01/17/25 09:29	01/20/25 14:29	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.8	U	49.8		mg/Kg		01/17/25 09:29	01/20/25 14:29	1
C10-C28)	-40.0		40.0				04/47/05 00:00	04/00/05 44:00	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/17/25 09:29	01/20/25 14:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130				01/17/25 09:29	01/20/25 14:29	1
o-Terphenyl	112		70 - 130				01/17/25 09:29	01/20/25 14:29	1
- Method: EPA 300.0 - Anions, Ion	Chromatogran	hy - Solubl	6						

Client Sample ID: S-16 (0-4') Lab Sample ID: 880-53354-7

<9.96 U

Date Collected: 01/15/25 15:10 **Matrix: Solid**

9.96

Date Received: 01/17/25 08:27

Sample Depth: 0-4'

Chloride

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		01/17/25 10:45	01/17/25 19:46	1
Toluene	<0.00198	U	0.00198		mg/Kg		01/17/25 10:45	01/17/25 19:46	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		01/17/25 10:45	01/17/25 19:46	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		01/17/25 10:45	01/17/25 19:46	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		01/17/25 10:45	01/17/25 19:46	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		01/17/25 10:45	01/17/25 19:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130				01/17/25 10:45	01/17/25 19:46	1

Client: Crain Environmental Job ID: 880-53354-1 Project/Site: ARU 13 SDG: Lea Co. NM

Client Sample ID: S-16 (0-4')

Lab Sample ID: 880-53354-7 Date Collected: 01/15/25 15:10 Matrix: Solid Date Received: 01/17/25 08:27

Sample Depth: 0-4'

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1 4-Diffuorohenzene (Surr)	92	70 130	01/17/25 10:45	01/17/25 19:46	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396 11	0.00396	ma/Ka			01/17/25 19:46	1

1					
Mathadi	: SW846 8015 NM	Discal Bange	Organica		CC
i welliou.	IVIVI CI UO OHOVVC	- Diesei Kanue	Organics	וטאטו	1001

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			01/20/25 14:45	1

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	<49.8	U	49.8		mg/Kg		01/17/25 09:29	01/20/25 14:45	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		01/17/25 09:29	01/20/25 14:45	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/17/25 09:29	01/20/25 14:45	1
Surrogate	%Recovery	Qualifier	l imits				Prenared	Analyzod	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	114	70 - 130	01/17/25 09:29	01/20/25 14:45	1
o-Terphenyl	111	70 - 130	01/17/25 09:29	01/20/25 14:45	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D)	Prepared	Analyzed	Dil Fac
Chloride	<9.98	U	9.98		mg/Kg				01/20/25 14:44	1

Client Sample ID: S-17 (0-4')

Date Collected: 01/15/25 15:15

Date Received: 01/17/25 08:27

Sample Depth: 0-4'

Method: SW846 8021B -	M-1-4!1- O	0 (00)

incurred Circle Cozin	no organio comp	Julius (SS)	,						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/17/25 10:45	01/17/25 20:13	1
Toluene	< 0.00199	U	0.00199		mg/Kg		01/17/25 10:45	01/17/25 20:13	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		01/17/25 10:45	01/17/25 20:13	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/17/25 10:45	01/17/25 20:13	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		01/17/25 10:45	01/17/25 20:13	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/17/25 10:45	01/17/25 20:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				01/17/25 10:45	01/17/25 20:13	1
1 4 Diffuorabanzana (Surr)	102		70 120				01/17/25 10:45	01/17/25 20:12	1

۱	Surrogate	%Recovery	Quaimer	Limits	Prepared	Analyzea	DII Fac
	4-Bromofluorobenzene (Surr)	99		70 - 130	01/17/25 10:45	01/17/25 20:13	1
	1,4-Difluorobenzene (Surr)	102		70 - 130	01/17/25 10:45	01/17/25 20:13	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00398	U	0.00398	mg/Kg			01/17/25 20:13	1

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

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/20/25 15:01	1

Eurofins Midland

Lab Sample ID: 880-53354-8

Matrix: Solid

Client Sample ID: S-17 (0-4')

Date Collected: 01/15/25 15:15

Date Received: 01/17/25 08:27

Client: Crain Environmental Project/Site: ARU 13

Job ID: 880-53354-1

SDG: Lea Co. NM

Lab Sample ID: 880-53354-8

Matrix: Solid

Sample Depth: 0-4'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		01/17/25 09:29	01/20/25 15:01	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		01/17/25 09:29	01/20/25 15:01	1
C10-C28)									
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/17/25 09:29	01/20/25 15:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130				01/17/25 09:29	01/20/25 15:01	1
o-Terphenyl	110		70 - 130				01/17/25 09:29	01/20/25 15:01	1
- Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: S-18 (0-4') Lab Sample ID: 880-53354-9 Matrix: Solid

Date Collected: 01/15/25 15:20 Date Received: 01/17/25 08:27

Sample Depth: 0-4'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/17/25 10:45	01/17/25 20:39	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/17/25 10:45	01/17/25 20:39	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/17/25 10:45	01/17/25 20:39	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/17/25 10:45	01/17/25 20:39	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/17/25 10:45	01/17/25 20:39	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/17/25 10:45	01/17/25 20:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				01/17/25 10:45	01/17/25 20:39	1
1,4-Difluorobenzene (Surr)	97		70 - 130				01/17/25 10:45	01/17/25 20:39	1
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			01/17/25 20:39	1
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/20/25 16:59	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 (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/17/25 09:29	01/20/25 16:59	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/17/25 09:29	01/20/25 16:59	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/17/25 09:29	01/20/25 16:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4.000	113		70 - 130				01/17/25 09:29	01/20/25 16:59	
1-Chlorooctane	113		70 - 130				01/11/25 09.29	01/20/20 10.09	,

Job ID: 880-53354-1 SDG: Lea Co. NM

Client: Crain Environmental Project/Site: ARU 13

Client Sample ID: S-18 (0-4')
Date Collected: 01/15/25 15:20

Lab Sample ID: 880-53354-9

Matrix: Solid

Date Received: 01/17/25 08:27 Sample Depth: 0-4'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble												
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac			
Chloride	<10.0	U	10.0		mg/Kg			01/20/25 14:56	1			

Client Sample ID: S-19 (0-4')

Lab Sample ID: 880-53354-10

Date Collected: 01/15/25 15:25 Matrix: Solid

Date Received: 01/17/25 08:27

Sample Depth: 0-4'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		01/17/25 10:45	01/17/25 21:05	
Toluene	<0.00198	U	0.00198		mg/Kg		01/17/25 10:45	01/17/25 21:05	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		01/17/25 10:45	01/17/25 21:05	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		01/17/25 10:45	01/17/25 21:05	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		01/17/25 10:45	01/17/25 21:05	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		01/17/25 10:45	01/17/25 21:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130				01/17/25 10:45	01/17/25 21:05	1
1,4-Difluorobenzene (Surr)	101		70 - 130				01/17/25 10:45	01/17/25 21:05	1
· Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			01/17/25 21:05	1
Analyte Total TPH	Result	Qualifier U	RL 49.8	MDL	mg/Kg	D	Prepared	Analyzed 01/20/25 17:14	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			01/20/25 17:14	1
Method: SW846 8015B NM - Dies				MDI	11-14		D	A	DU E
Analyte	Result <49.8	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		01/17/25 09:29	01/20/25 17:14	1
Diesel Range Organics (Over	<49.8	U	49.8		mg/Kg		01/17/25 09:29	01/20/25 17:14	1
C10-C28)					5 5				
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/17/25 09:29	01/20/25 17:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130				01/17/25 09:29	01/20/25 17:14	1
o-Terphenyl	106		70 - 130				01/17/25 09:29	01/20/25 17:14	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<i>,</i>		U							

Client Sample ID: S-20 (0-4')

Date Collected: 01/15/25 15:30

Date Received: 01/17/25 08:27

Sample Depth: 0-4'

Client: Crain Environmental Project/Site: ARU 13

Job ID: 880-53354-1 SDG: Lea Co. NM

Lab Sample ID: 880-53354-11

Matrix: Solid

Method: SW846 8021B - Volatile	Organic Comp	ounds (GC)	ı						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/17/25 10:45	01/17/25 21:32	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/17/25 10:45	01/17/25 21:32	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/17/25 10:45	01/17/25 21:32	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		01/17/25 10:45	01/17/25 21:32	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/17/25 10:45	01/17/25 21:32	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		01/17/25 10:45	01/17/25 21:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130				01/17/25 10:45	01/17/25 21:32	1
1,4-Difluorobenzene (Surr)	100		70 - 130				01/17/25 10:45	01/17/25 21:32	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			01/17/25 21:32	1
Method: SW846 8015 NM - Diese	al Pango Organ	ice (DRO) ((30)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			01/20/25 17:30	1
Method: SW846 8015B NM - Die:	sel Range Orga	nics (DRO)	(GC)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.7	U	49.7		mg/Kg		01/17/25 09:29	01/20/25 17:30	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.7	U	49.7		mg/Kg		01/17/25 09:29	01/20/25 17:30	1
C10 C20)									1
C10-C28)									
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		01/17/25 09:29	01/20/25 17:30	1
,	<49.7 %Recovery		49.7		mg/Kg		01/17/25 09:29 Prepared	01/20/25 17:30 Analyzed	1
Oil Range Organics (Over C28-C36)					mg/Kg				1 Dil Fac
Oil Range Organics (Over C28-C36) Surrogate	%Recovery		Limits		mg/Kg		Prepared	Analyzed	1 Dil Fac
Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	%Recovery 106 104	Qualifier	Limits 70 - 130 70 - 130		mg/Kg		Prepared 01/17/25 09:29	Analyzed 01/20/25 17:30	
Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	%Recovery 106 104 Chromatograp	Qualifier	Limits 70 - 130 70 - 130	MDL	mg/Kg	D	Prepared 01/17/25 09:29	Analyzed 01/20/25 17:30	1 Dil Fac

Client Sample ID: S-21 (0-4')

Date Collected: 01/15/25 15:35 Date Received: 01/17/25 08:27

Sample Depth: 0-4'

Lab Sample ID: 880-53354-12

Matrix: Solid

Method: SW846 8021B - Volati	le Organic Comp	ounds (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/17/25 10:45	01/17/25 21:58	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/17/25 10:45	01/17/25 21:58	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/17/25 10:45	01/17/25 21:58	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		01/17/25 10:45	01/17/25 21:58	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/17/25 10:45	01/17/25 21:58	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		01/17/25 10:45	01/17/25 21:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				01/17/25 10:45	01/17/25 21:58	1

Job ID: 880-53354-1

SDG: Lea Co. NM

Client Sample ID: S-21 (0-4')

Date Collected: 01/15/25 15:35 Date Received: 01/17/25 08:27

Client: Crain Environmental Project/Site: ARU 13

Sample Depth: 0-4'

Lab Sample ID: 880-53354-13

Matrix: Solid

Lab Sample ID: 880-53354-12 Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

%Recovery Qualifier Limits Prepared Surrogate Analyzed Dil Fac 70 - 130 01/17/25 10:45 1,4-Difluorobenzene (Surr) 104 01/17/25 21:58

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte Result Qualifier RL MDL Unit D Analyzed Dil Fac Prepared Total BTEX <0.00401 0.00401 01/17/25 21:58 mg/Kg

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

Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Total TPH <50.0 50.0 mg/Kg 01/20/25 17:45

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

MDL Unit Analyte Result Qualifier RL D Prepared Analyzed Dil Fac <50.0 U 50.0 01/17/25 09:29 01/20/25 17:45 Gasoline Range Organics mg/Kg (GRO)-C6-C10 <50.0 U 50.0 01/17/25 09:29 01/20/25 17:45 Diesel Range Organics (Over mg/Kg C10-C28) Oil Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 01/17/25 09:29 01/20/25 17:45

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1-Chlorooctane 110 70 - 130 01/17/25 09:29 01/20/25 17:45 01/20/25 17:45 o-Terphenyl 108 70 - 130 01/17/25 09:29

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Chloride <9.98 U 9.98 01/20/25 15:24 mg/Kg

Client Sample ID: S-22 (4.1')

Date Collected: 01/15/25 15:40

Date Received: 01/17/25 08:27

Sample Depth: 4.1'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Benzene <0.00199 U 0.00199 mg/Kg 01/17/25 10:45 01/17/25 22:24 Toluene <0.00199 U 0.00199 01/17/25 10:45 01/17/25 22:24 mg/Kg Ethylbenzene <0.00199 U 0.00199 01/17/25 10:45 01/17/25 22:24 mg/Kg 01/17/25 22:24 m-Xylene & p-Xylene <0.00398 U 0.00398 01/17/25 10:45 mg/Kg o-Xylene <0.00199 U 0.00199 mg/Kg 01/17/25 10:45 01/17/25 22:24 Xylenes, Total <0.00398 U 0.00398 mg/Kg 01/17/25 10:45 01/17/25 22:24

%Recovery Qualifier Limits Dil Fac Surrogate Prepared Analyzed 70 - 130 01/17/25 10:45 4-Bromofluorobenzene (Surr) 105 01/17/25 22:24 1,4-Difluorobenzene (Surr) 102 70 - 130 01/17/25 10:45 01/17/25 22:24

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte Result Qualifier RL MDL D Unit Prepared Analyzed Dil Fac Total BTEX <0.00398 0.00398 01/17/25 22:24 mg/Kg

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

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac <50.0 U Total TPH 50.0 01/20/25 18:01 mg/Kg

Job ID: 880-53354-1 SDG: Lea Co. NM

Project/Site: ARU 13

Date Received: 01/17/25 08:27

Client: Crain Environmental

Client Sample ID: S-22 (4.1') Lab Sample ID: 880-53354-13 Date Collected: 01/15/25 15:40

Matrix: Solid

01/20/25 15:41

Sample Depth: 4.1'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/17/25 09:29	01/20/25 18:01	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/17/25 09:29	01/20/25 18:01	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/17/25 09:29	01/20/25 18:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130				01/17/25 09:29	01/20/25 18:01	1
o-Terphenyl	109		70 - 130				01/17/25 09:29	01/20/25 18:01	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Lab Sample ID: 880-53354-14 **Client Sample ID: S-23 (4.1')**

9.94

mg/Kg

<9.94 U

Date Collected: 01/15/25 15:45 Matrix: Solid

Date Received: 01/17/25 08:27

Sample Depth: 4.1'

Chloride

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/17/25 10:45	01/17/25 22:51	1
Toluene	< 0.00199	U	0.00199		mg/Kg		01/17/25 10:45	01/17/25 22:51	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		01/17/25 10:45	01/17/25 22:51	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/17/25 10:45	01/17/25 22:51	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		01/17/25 10:45	01/17/25 22:51	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/17/25 10:45	01/17/25 22:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				01/17/25 10:45	01/17/25 22:51	1
1,4-Difluorobenzene (Surr)	99		70 - 130				01/17/25 10:45	01/17/25 22:51	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/17/25 22:51	1
Method: SW846 8015 NM - Diese	I Damma Orman	ine (DDO) (20)						
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	- <49.9		49.9		mg/Kg	_ <u>-</u>		01/20/25 18:16	1
- -									
Method: SW846 8015B NM - Dies			(GC)						
Method: SW846 8015B NM - Dies Analyte		nics (DRO) Qualifier	(GC)	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Gasoline Range Organics		Qualifier		MDL	Unit mg/Kg	<u>D</u>	Prepared 01/17/25 09:29	Analyzed 01/20/25 18:16	Dil Fac
	Result	Qualifier U	RL	MDL		<u>D</u>			
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over		Qualifier U	RL 49.9	MDL	mg/Kg	<u>D</u>	01/17/25 09:29	01/20/25 18:16	1
Analyte Gasoline Range Organics (GRO)-C6-C10		Qualifier U	RL 49.9	MDL	mg/Kg	<u> </u>	01/17/25 09:29	01/20/25 18:16	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9 <49.9	Qualifier U U U	49.9 49.9	MDL	mg/Kg	<u>D</u>	01/17/25 09:29	01/20/25 18:16 01/20/25 18:16	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	Result <49.9 <49.9 <49.9	Qualifier U U U	49.9 49.9	MDL	mg/Kg	<u>D</u>	01/17/25 09:29 01/17/25 09:29 01/17/25 09:29	01/20/25 18:16 01/20/25 18:16 01/20/25 18:16	1 1

Client: Crain Environmental Job ID: 880-53354-1 Project/Site: ARU 13 SDG: Lea Co. NM

Client Sample ID: S-23 (4.1') Lab Sample ID: 880-53354-14 Date Collected: 01/15/25 15:45

Date Received: 01/17/25 08:27

Matrix: Solid

Sample Depth: 4.1'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
ı	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	<10.0	U	10.0		mg/Kg			01/20/25 15:47	1

Client Sample ID: S-24 (4.1') Lab Sample ID: 880-53354-15

Date Collected: 01/15/25 15:50 Matrix: Solid

Date Received: 01/17/25 08:27

Sample Depth: 4.1'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		01/17/25 09:23	01/17/25 23:17	
Toluene	<0.00198	U	0.00198		mg/Kg		01/17/25 09:23	01/17/25 23:17	•
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		01/17/25 09:23	01/17/25 23:17	
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		01/17/25 09:23	01/17/25 23:17	
o-Xylene	<0.00198	U	0.00198		mg/Kg		01/17/25 09:23	01/17/25 23:17	
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		01/17/25 09:23	01/17/25 23:17	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	99		70 - 130				01/17/25 09:23	01/17/25 23:17	
1,4-Difluorobenzene (Surr)	98		70 - 130				01/17/25 09:23	01/17/25 23:17	
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00396	U	0.00396		mg/Kg			01/17/25 23:17	
Method: SW846 8015 NM - Diese Analyte	•	ics (DRO) (0 Qualifier	GC)	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<49.8		49.8		mg/Kg	— <u>-</u>		01/20/25 18:30	
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		01/17/25 09:29	01/20/25 18:30	
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		01/17/25 09:29	01/20/25 18:30	
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/17/25 09:29	01/20/25 18:30	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	104		70 - 130				01/17/25 09:29	01/20/25 18:30	
o-Terphenyl	102		70 - 130				01/17/25 09:29	01/20/25 18:30	
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	<10.1		10.1		mg/Kg			01/20/25 15:52	

Lab Sample ID: 880-53354-16

Job ID: 880-53354-1

Project/Site: ARU 13 SDG: Lea Co. NM

Client Sample ID: S-25 (4.1') Date Collected: 01/15/25 15:55 Date Received: 01/17/25 08:27

Sample Depth: 4.1'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/17/25 10:45	01/17/25 23:43	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/17/25 10:45	01/17/25 23:43	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/17/25 10:45	01/17/25 23:43	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/17/25 10:45	01/17/25 23:43	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/17/25 10:45	01/17/25 23:43	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/17/25 10:45	01/17/25 23:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130				01/17/25 10:45	01/17/25 23:43	1
1,4-Difluorobenzene (Surr)	89		70 - 130				01/17/25 10:45	01/17/25 23:43	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			01/17/25 23:43	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TDL	-10.7	П	40.7		malka				
Total TPH	<49.7	U	49.7		mg/Kg			01/20/25 18:47	1
					mg/Kg		<u> </u>		1
Method: SW846 8015B NM - Die	sel Range Orga			MDL	mg/Kg Unit	D	Prepared		1 Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	sel Range Orga	nics (DRO) Qualifier	(GC)	MDL		<u>D</u>		01/20/25 18:47	1
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	sel Range Orga Result	nics (DRO) Qualifier	(GC)	MDL	Unit	<u>D</u>	Prepared	01/20/25 18:47 Analyzed	1 Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	sel Range Orga Result <49.7	nics (DRO) Qualifier U	(GC) RL 49.7	MDL	Unit mg/Kg	<u>D</u>	Prepared 01/17/25 09:29	01/20/25 18:47 Analyzed 01/20/25 18:47	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	sel Range Orga Result <49.7 <49.7	nics (DRO) Qualifier U	(GC) RL 49.7	MDL	Unit mg/Kg mg/Kg	<u>D</u>	Prepared 01/17/25 09:29 01/17/25 09:29	01/20/25 18:47 Analyzed 01/20/25 18:47 01/20/25 18:47	1 Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	sel Range Orga Result <49.7 <49.7	nics (DRO) Qualifier U	(GC) RL 49.7 49.7 49.7	MDL	Unit mg/Kg mg/Kg	<u>D</u>	Prepared 01/17/25 09:29 01/17/25 09:29 01/17/25 09:29	01/20/25 18:47 Analyzed 01/20/25 18:47 01/20/25 18:47 01/20/25 18:47	1 Dil Fac 1 1
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	Sel Range Orga Result <49.7 <49.7 <49.7 <49.7 %Recovery	nics (DRO) Qualifier U	(GC) RL 49.7 49.7 49.7 Limits	MDL	Unit mg/Kg mg/Kg	<u>D</u>	Prepared 01/17/25 09:29 01/17/25 09:29 01/17/25 09:29 Prepared	01/20/25 18:47 Analyzed 01/20/25 18:47 01/20/25 18:47 01/20/25 18:47 Analyzed	Dil Fac 1 1 Dil Fac Dil Fac
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	sel Range Orga Result <49.7	U Qualifier U Qualifier	(GC) RL 49.7 49.7 49.7 Limits 70 - 130 70 - 130	MDL	Unit mg/Kg mg/Kg	<u>D</u>	Prepared 01/17/25 09:29 01/17/25 09:29 01/17/25 09:29 Prepared 01/17/25 09:29	01/20/25 18:47 Analyzed 01/20/25 18:47 01/20/25 18:47 01/20/25 18:47 Analyzed 01/20/25 18:47	Dil Fac 1 1 Dil Fac Dil Fac
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 Method: EPA 300.0 - Anions, Ion Analyte	sel Range Orga Result <49.7 <49.7 <49.7 // MRecovery 101 99 n Chromatograp	U Qualifier U Qualifier	(GC) RL 49.7 49.7 49.7 Limits 70 - 130 70 - 130		Unit mg/Kg mg/Kg	<u>D</u>	Prepared 01/17/25 09:29 01/17/25 09:29 01/17/25 09:29 Prepared 01/17/25 09:29	01/20/25 18:47 Analyzed 01/20/25 18:47 01/20/25 18:47 01/20/25 18:47 Analyzed 01/20/25 18:47	Dil Fac 1 1 Dil Fac Dil Fac

Client: Crain Environmental

Matrix: Solid

Surrogate Summary

Client: Crain Environmental Job ID: 880-53354-1 Project/Site: ARU 13 SDG: Lea Co. NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-53354-1	S-10 (0-1')	92	98	
880-53354-2	S-11 (0-1')	99	97	
880-53354-3	S-12 (0-1')	102	100	
880-53354-4	S-13 (0-1')	101	99	
880-53354-5	S-14 (0-4')	104	101	
880-53354-6	S-15 (0-4')	100	99	
880-53354-7	S-16 (0-4')	90	92	
880-53354-8	S-17 (0-4')	99	102	
880-53354-9	S-18 (0-4')	99	97	
880-53354-10	S-19 (0-4')	101	101	
880-53354-11	S-20 (0-4')	101	100	
880-53354-12	S-21 (0-4')	110	104	
880-53354-13	S-22 (4.1')	105	102	
880-53354-14	S-23 (4.1')	99	99	
880-53354-15	S-24 (4.1')	99	98	
880-53354-16	S-25 (4.1')	98	89	
LCS 880-100498/1-A	Lab Control Sample	93	98	
LCSD 880-100498/2-A	Lab Control Sample Dup	87	95	
MB 880-100498/5-A	Method Blank	90	89	

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)	
880-53354-1	S-10 (0-1')	122	122	
880-53354-2	S-11 (0-1')	118	119	
880-53354-3	S-12 (0-1')	122	123	
880-53354-4	S-13 (0-1')	117	116	
880-53354-5	S-14 (0-4')	113	112	
880-53354-6	S-15 (0-4')	113	112	
880-53354-7	S-16 (0-4')	114	111	
880-53354-8	S-17 (0-4')	112	110	
880-53354-9	S-18 (0-4')	113	111	
880-53354-10	S-19 (0-4')	108	106	
880-53354-11	S-20 (0-4')	106	104	
880-53354-12	S-21 (0-4')	110	108	
880-53354-13	S-22 (4.1')	111	109	
880-53354-14	S-23 (4.1')	103	101	
880-53354-15	S-24 (4.1')	104	102	
880-53354-16	S-25 (4.1')	101	99	
LCS 880-100504/2-A	Lab Control Sample	117	130	
LCSD 880-100504/3-A	Lab Control Sample Dup	119	130	
MB 880-100504/1-A	Method Blank	111	111	

Surrogate Summary

Client: Crain Environmental Project/Site: ARU 13 1CO = 1-Chlorooctane OTPH = o-Terphenyl

Job ID: 880-53354-1 SDG: Lea Co. NM

Client: Crain Environmental Project/Site: ARU 13

Job ID: 880-53354-1

SDG: Lea Co. NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-100498/5-A

Lab Sample ID: LCS 880-100498/1-A

Matrix: Solid

Matrix: Solid

Analysis Batch: 100506

Analysis Batch: 100506

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 100498

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/17/25 09:23	01/17/25 13:11	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/17/25 09:23	01/17/25 13:11	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/17/25 09:23	01/17/25 13:11	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/17/25 09:23	01/17/25 13:11	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/17/25 09:23	01/17/25 13:11	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/17/25 09:23	01/17/25 13:11	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	01/17/25 09:23	01/17/25 13:11	1
1,4-Difluorobenzene (Surr)	89		70 - 130	01/17/25 09:23	01/17/25 13:11	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 100498

Prep Type: Total/NA

Prep Batch: 100498

	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	0.100	0.08975		mg/Kg		90	70 - 130
Toluene	0.100	0.08665		mg/Kg		87	70 - 130
Ethylbenzene	0.100	0.08538		mg/Kg		85	70 - 130
m-Xylene & p-Xylene	0.200	0.1789		mg/Kg		89	70 - 130
o-Xylene	0.100	0.09108		mg/Kg		91	70 - 130

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: LCSD 880-100498/2-A **Client Sample ID: Lab Control Sample Dup**

Matrix: Solid

Analysis Batch: 100506

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.08299		mg/Kg		83	70 - 130	8	35
Toluene	0.100	0.08070		mg/Kg		81	70 - 130	7	35
Ethylbenzene	0.100	0.07780		mg/Kg		78	70 - 130	9	35
m-Xylene & p-Xylene	0.200	0.1611		mg/Kg		81	70 - 130	10	35
o-Xylene	0.100	0.08226		mg/Kg		82	70 - 130	10	35

LCSD LCSD

Surrogate	%Recovery Qualifi	er Limits
4-Bromofluorobenzene (Surr)	87	70 - 130
1,4-Difluorobenzene (Surr)	95	70 - 130

Client: Crain Environmental

Project/Site: ARU 13

Job ID: 880-53354-1

SDG: Lea Co. NM

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

Lab Sample ID: MB 880-100504/1-A

Matrix: Solid

Analysis Batch: 100652

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 100504

	MB	МВ							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		01/17/25 09:29	01/20/25 09:44	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		01/17/25 09:29	01/20/25 09:44	1
C10-C28)									
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/17/25 09:29	01/20/25 09:44	1
	МВ	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130				01/17/25 09:29	01/20/25 09:44	1

70 - 130

Lab Sample ID: LCS 880-100504/2-A

Matrix: Solid

o-Terphenyl

Analysis Batch: 100652

Client Sample ID: Lab Control Sample

01/20/25 09:44

01/17/25 09:29

Prep Type: Total/NA Prep Batch: 100504

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit D %Rec Limits 1000 1036 104 70 - 130 Gasoline Range Organics mg/Kg (GRO)-C6-C10 1000 Diesel Range Organics (Over 1135 mg/Kg 113 70 - 130C10-C28)

 Surrogate
 %Recovery
 Qualifier
 Limits

 1-Chlorooctane
 117
 70 - 130

 o-Terphenyl
 130
 70 - 130

111

Lab Sample ID: LCSD 880-100504/3-A

Matrix: Solid

Analysis Batch: 100652

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 100504

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	1000	1065		mg/Kg		107	70 - 130	3	20	
(GRO)-C6-C10										
Diesel Range Organics (Over	1000	1120		mg/Kg		112	70 - 130	1	20	
C10-C28)										

LCSD LCSD

Surrogate	%Recovery Quali	fier Limits
1-Chlorooctane	119	70 - 130
o-Terphenyl	130	70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-100659/1-A

Matrix: Solid

Analysis Batch: 100689

Client Sample ID: Method Blank

Prep Type: Soluble

 MB
 MB

 Analyte
 Result
 Qualifier
 RL
 MDL
 Unit
 D
 Prepared
 Analyzed
 Dil Fac

 Chloride
 <10.0</td>
 U
 10.0
 mg/Kg
 01/20/25 13:25
 1

Eurofins Midland

-

3

5

7

8

10

11

13

QC Sample Results

Client: Crain Environmental Job ID: 880-53354-1 Project/Site: ARU 13 SDG: Lea Co. NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-100659/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 100689

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits Chloride 250 236.0 mg/Kg 94 90 - 110

Lab Sample ID: LCSD 880-100659/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 100689

Spike LCSD LCSD %Rec RPD Added Result Qualifier RPD Limit Analyte Unit D %Rec Limits Chloride 250 236.3 mg/Kg 95 90 - 110 0

Lab Sample ID: 880-53354-10 MS Client Sample ID: S-19 (0-4')

Matrix: Solid Prep Type: Soluble

Analysis Batch: 100689

MS MS %Rec Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chloride <10.1 U 253 250.0 90 - 110 mg/Kg

Lab Sample ID: 880-53354-10 MSD Client Sample ID: S-19 (0-4') **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 100689

Spike MSD MSD RPD Sample Sample %Rec Analyte Result Qualifier Added Qualifier Unit %Rec RPD Limit Result Limits 250.7 Chloride <10.1 253 98 90 - 110 20 mg/Kg

Client: Crain Environmental

Project/Site: ARU 13

Job ID: 880-53354-1

SDG: Lea Co. NM

GC VOA

Prep Batch: 100498

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53354-1	S-10 (0-1')	Total/NA	Solid	5035	
880-53354-2	S-11 (0-1')	Total/NA	Solid	5035	
880-53354-3	S-12 (0-1')	Total/NA	Solid	5035	
880-53354-4	S-13 (0-1')	Total/NA	Solid	5035	
880-53354-5	S-14 (0-4')	Total/NA	Solid	5035	
880-53354-6	S-15 (0-4')	Total/NA	Solid	5035	
880-53354-7	S-16 (0-4')	Total/NA	Solid	5035	
880-53354-8	S-17 (0-4')	Total/NA	Solid	5035	
880-53354-9	S-18 (0-4')	Total/NA	Solid	5035	
880-53354-10	S-19 (0-4')	Total/NA	Solid	5035	
880-53354-11	S-20 (0-4')	Total/NA	Solid	5035	
880-53354-12	S-21 (0-4')	Total/NA	Solid	5035	
880-53354-13	S-22 (4.1')	Total/NA	Solid	5035	
880-53354-14	S-23 (4.1')	Total/NA	Solid	5035	
880-53354-15	S-24 (4.1')	Total/NA	Solid	5035	
880-53354-16	S-25 (4.1')	Total/NA	Solid	5035	
MB 880-100498/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-100498/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-100498/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 100506

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53354-1	S-10 (0-1')	Total/NA	Solid	8021B	100498
880-53354-2	S-11 (0-1')	Total/NA	Solid	8021B	100498
880-53354-3	S-12 (0-1')	Total/NA	Solid	8021B	100498
880-53354-4	S-13 (0-1')	Total/NA	Solid	8021B	100498
880-53354-5	S-14 (0-4')	Total/NA	Solid	8021B	100498
880-53354-6	S-15 (0-4')	Total/NA	Solid	8021B	100498
880-53354-7	S-16 (0-4')	Total/NA	Solid	8021B	100498
880-53354-8	S-17 (0-4')	Total/NA	Solid	8021B	100498
880-53354-9	S-18 (0-4')	Total/NA	Solid	8021B	100498
880-53354-10	S-19 (0-4')	Total/NA	Solid	8021B	100498
880-53354-11	S-20 (0-4')	Total/NA	Solid	8021B	100498
880-53354-12	S-21 (0-4')	Total/NA	Solid	8021B	100498
880-53354-13	S-22 (4.1')	Total/NA	Solid	8021B	100498
880-53354-14	S-23 (4.1')	Total/NA	Solid	8021B	100498
880-53354-15	S-24 (4.1')	Total/NA	Solid	8021B	100498
880-53354-16	S-25 (4.1')	Total/NA	Solid	8021B	100498
MB 880-100498/5-A	Method Blank	Total/NA	Solid	8021B	100498
LCS 880-100498/1-A	Lab Control Sample	Total/NA	Solid	8021B	100498
LCSD 880-100498/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	100498

Analysis Batch: 100680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53354-1	S-10 (0-1')	Total/NA	Solid	Total BTEX	-
880-53354-2	S-11 (0-1')	Total/NA	Solid	Total BTEX	
880-53354-3	S-12 (0-1')	Total/NA	Solid	Total BTEX	
880-53354-4	S-13 (0-1')	Total/NA	Solid	Total BTEX	
880-53354-5	S-14 (0-4')	Total/NA	Solid	Total BTEX	
880-53354-6	S-15 (0-4')	Total/NA	Solid	Total BTEX	
880-53354-7	S-16 (0-4')	Total/NA	Solid	Total BTEX	

Eurofins Midland

Page 24 of 38

Client: Crain Environmental Job ID: 880-53354-1
Project/Site: ARU 13 SDG: Lea Co. NM

GC VOA (Continued)

Analysis Batch: 100680 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53354-8	S-17 (0-4')	Total/NA	Solid	Total BTEX	
880-53354-9	S-18 (0-4')	Total/NA	Solid	Total BTEX	
880-53354-10	S-19 (0-4')	Total/NA	Solid	Total BTEX	
880-53354-11	S-20 (0-4')	Total/NA	Solid	Total BTEX	
880-53354-12	S-21 (0-4')	Total/NA	Solid	Total BTEX	
880-53354-13	S-22 (4.1')	Total/NA	Solid	Total BTEX	
880-53354-14	S-23 (4.1')	Total/NA	Solid	Total BTEX	
880-53354-15	S-24 (4.1')	Total/NA	Solid	Total BTEX	
880-53354-16	S-25 (4.1')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 100504

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53354-1	S-10 (0-1')	Total/NA	Solid	8015NM Prep	
880-53354-2	S-11 (0-1')	Total/NA	Solid	8015NM Prep	
880-53354-3	S-12 (0-1')	Total/NA	Solid	8015NM Prep	
880-53354-4	S-13 (0-1')	Total/NA	Solid	8015NM Prep	
880-53354-5	S-14 (0-4')	Total/NA	Solid	8015NM Prep	
880-53354-6	S-15 (0-4')	Total/NA	Solid	8015NM Prep	
880-53354-7	S-16 (0-4')	Total/NA	Solid	8015NM Prep	
880-53354-8	S-17 (0-4')	Total/NA	Solid	8015NM Prep	
880-53354-9	S-18 (0-4')	Total/NA	Solid	8015NM Prep	
880-53354-10	S-19 (0-4')	Total/NA	Solid	8015NM Prep	
880-53354-11	S-20 (0-4')	Total/NA	Solid	8015NM Prep	
880-53354-12	S-21 (0-4')	Total/NA	Solid	8015NM Prep	
880-53354-13	S-22 (4.1')	Total/NA	Solid	8015NM Prep	
880-53354-14	S-23 (4.1')	Total/NA	Solid	8015NM Prep	
880-53354-15	S-24 (4.1')	Total/NA	Solid	8015NM Prep	
880-53354-16	S-25 (4.1')	Total/NA	Solid	8015NM Prep	
MB 880-100504/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-100504/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-100504/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 100652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
880-53354-1	S-10 (0-1')	Total/NA	Solid	8015B NM	100504
880-53354-2	S-11 (0-1')	Total/NA	Solid	8015B NM	100504
880-53354-3	S-12 (0-1')	Total/NA	Solid	8015B NM	100504
880-53354-4	S-13 (0-1')	Total/NA	Solid	8015B NM	100504
880-53354-5	S-14 (0-4')	Total/NA	Solid	8015B NM	100504
880-53354-6	S-15 (0-4')	Total/NA	Solid	8015B NM	100504
880-53354-7	S-16 (0-4')	Total/NA	Solid	8015B NM	100504
880-53354-8	S-17 (0-4')	Total/NA	Solid	8015B NM	100504
880-53354-9	S-18 (0-4')	Total/NA	Solid	8015B NM	100504
880-53354-10	S-19 (0-4')	Total/NA	Solid	8015B NM	100504
880-53354-11	S-20 (0-4')	Total/NA	Solid	8015B NM	100504
880-53354-12	S-21 (0-4')	Total/NA	Solid	8015B NM	100504
880-53354-13	S-22 (4.1')	Total/NA	Solid	8015B NM	100504
880-53354-14	S-23 (4.1')	Total/NA	Solid	8015B NM	100504
880-53354-15	S-24 (4.1')	Total/NA	Solid	8015B NM	100504

Eurofins Midland

_1

3

1

9

12

13

Н

Client: Crain Environmental
Project/Site: ARU 13
Job ID: 880-53354-1
SDG: Lea Co. NM

GC Semi VOA (Continued)

Analysis Batch: 100652 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53354-16	S-25 (4.1')	Total/NA	Solid	8015B NM	100504
MB 880-100504/1-A	Method Blank	Total/NA	Solid	8015B NM	100504
LCS 880-100504/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	100504
LCSD 880-100504/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	100504

Analysis Batch: 100766

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
880-53354-1	S-10 (0-1')	Total/NA	Solid	8015 NM	_
880-53354-2	S-11 (0-1')	Total/NA	Solid	8015 NM	
880-53354-3	S-12 (0-1')	Total/NA	Solid	8015 NM	
880-53354-4	S-13 (0-1')	Total/NA	Solid	8015 NM	
880-53354-5	S-14 (0-4')	Total/NA	Solid	8015 NM	
880-53354-6	S-15 (0-4')	Total/NA	Solid	8015 NM	
880-53354-7	S-16 (0-4')	Total/NA	Solid	8015 NM	
880-53354-8	S-17 (0-4')	Total/NA	Solid	8015 NM	
880-53354-9	S-18 (0-4')	Total/NA	Solid	8015 NM	
880-53354-10	S-19 (0-4')	Total/NA	Solid	8015 NM	
880-53354-11	S-20 (0-4')	Total/NA	Solid	8015 NM	
880-53354-12	S-21 (0-4')	Total/NA	Solid	8015 NM	
880-53354-13	S-22 (4.1')	Total/NA	Solid	8015 NM	
880-53354-14	S-23 (4.1')	Total/NA	Solid	8015 NM	
880-53354-15	S-24 (4.1')	Total/NA	Solid	8015 NM	
880-53354-16	S-25 (4.1')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 100659

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
880-53354-1	S-10 (0-1')	Soluble	Solid	DI Leach	
880-53354-2	S-11 (0-1')	Soluble	Solid	DI Leach	
880-53354-3	S-12 (0-1')	Soluble	Solid	DI Leach	
880-53354-4	S-13 (0-1')	Soluble	Solid	DI Leach	
380-53354-5	S-14 (0-4')	Soluble	Solid	DI Leach	
380-53354-6	S-15 (0-4')	Soluble	Solid	DI Leach	
380-53354-7	S-16 (0-4')	Soluble	Solid	DI Leach	
380-53354-8	S-17 (0-4')	Soluble	Solid	DI Leach	
380-53354-9	S-18 (0-4')	Soluble	Solid	DI Leach	
380-53354-10	S-19 (0-4')	Soluble	Solid	DI Leach	
380-53354-11	S-20 (0-4')	Soluble	Solid	DI Leach	
380-53354-12	S-21 (0-4')	Soluble	Solid	DI Leach	
880-53354-13	S-22 (4.1')	Soluble	Solid	DI Leach	
380-53354-14	S-23 (4.1')	Soluble	Solid	DI Leach	
880-53354-15	S-24 (4.1')	Soluble	Solid	DI Leach	
380-53354-16	S-25 (4.1')	Soluble	Solid	DI Leach	
/IB 880-100659/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-100659/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
CSD 880-100659/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
80-53354-10 MS	S-19 (0-4')	Soluble	Solid	DI Leach	
880-53354-10 MSD	S-19 (0-4')	Soluble	Solid	DI Leach	

Eurofins Midland

1

3

5

6

ŏ

10

12

М

Client: Crain Environmental Job ID: 880-53354-1 Project/Site: ARU 13 SDG: Lea Co. NM

HPLC/IC

Analysis Batch: 100689

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53354-1	S-10 (0-1')	Soluble	Solid	300.0	100659
880-53354-2	S-11 (0-1')	Soluble	Solid	300.0	100659
880-53354-3	S-12 (0-1')	Soluble	Solid	300.0	100659
880-53354-4	S-13 (0-1')	Soluble	Solid	300.0	100659
880-53354-5	S-14 (0-4')	Soluble	Solid	300.0	100659
880-53354-6	S-15 (0-4')	Soluble	Solid	300.0	100659
880-53354-7	S-16 (0-4')	Soluble	Solid	300.0	100659
880-53354-8	S-17 (0-4')	Soluble	Solid	300.0	100659
880-53354-9	S-18 (0-4')	Soluble	Solid	300.0	100659
880-53354-10	S-19 (0-4')	Soluble	Solid	300.0	100659
880-53354-11	S-20 (0-4')	Soluble	Solid	300.0	100659
880-53354-12	S-21 (0-4')	Soluble	Solid	300.0	100659
880-53354-13	S-22 (4.1')	Soluble	Solid	300.0	100659
880-53354-14	S-23 (4.1')	Soluble	Solid	300.0	100659
880-53354-15	S-24 (4.1')	Soluble	Solid	300.0	100659
880-53354-16	S-25 (4.1')	Soluble	Solid	300.0	100659
MB 880-100659/1-A	Method Blank	Soluble	Solid	300.0	100659
LCS 880-100659/2-A	Lab Control Sample	Soluble	Solid	300.0	100659
LCSD 880-100659/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	100659
880-53354-10 MS	S-19 (0-4')	Soluble	Solid	300.0	100659
880-53354-10 MSD	S-19 (0-4')	Soluble	Solid	300.0	100659

Client Sample ID: S-10 (0-1')

Lab Sample ID: 880-53354-1

Matrix: Solid

Date Collected: 01/15/25 14:40 Date Received: 01/17/25 08:27

	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	100498	01/17/25 10:45	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100506	01/17/25 15:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100680	01/17/25 15:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			100766	01/20/25 13:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	100504	01/17/25 09:29	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100652	01/20/25 13:10	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	100659	01/20/25 10:05	SI	EET MID
Soluble	Analysis	300.0		1			100689	01/20/25 13:59	CH	EET MID

Lab Sample ID: 880-53354-2

Lab Sample ID: 880-53354-3

Lab Sample ID: 880-53354-4

Client Sample ID: S-11 (0-1') Date Collected: 01/15/25 14:45 Matrix: Solid

Matrix: Solid

Date Received: 01/17/25 08:27

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	100498	01/17/25 10:45	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100506	01/17/25 16:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100680	01/17/25 16:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			100766	01/20/25 13:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	100504	01/17/25 09:29	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100652	01/20/25 13:27	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	100659	01/20/25 10:05	SI	EET MID
Soluble	Analysis	300.0		1			100689	01/20/25 14:04	CH	EET MID

Client Sample ID: S-12 (0-1')

Date Collected: 01/15/25 14:50

Date Received: 01/17/25 08:27

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	100498	01/17/25 10:45	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100506	01/17/25 16:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100680	01/17/25 16:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			100766	01/20/25 13:42	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	100504	01/17/25 09:29	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100652	01/20/25 13:42	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	100659	01/20/25 10:05	SI	EET MID
Soluble	Analysis	300.0		1			100689	01/20/25 14:10	CH	EET MID

Client Sample ID: S-13 (0-1')

Date Collected: 01/15/25 14:55

Date Received: 01/17/25 08:27

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	100498	01/17/25 10:45	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100506	01/17/25 17:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100680	01/17/25 17:08	SM	EET MID

Eurofins Midland

Page 28 of 38

Matrix: Solid

Client: Crain Environmental Project/Site: ARU 13

Job ID: 880-53354-1

SDG: Lea Co. NM

Client Sample ID: S-13 (0-1')

Date Collected: 01/15/25 14:55 Date Received: 01/17/25 08:27 Lab Sample ID: 880-53354-4

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			100766	01/20/25 13:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	100504	01/17/25 09:29	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100652	01/20/25 13:58	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	100659	01/20/25 10:05	SI	EET MID
Soluble	Analysis	300.0		1			100689	01/20/25 14:16	CH	EET MID

Lab Sample ID: 880-53354-5

Date Collected: 01/15/25 15:00

Client Sample ID: S-14 (0-4')

Date Received: 01/17/25 08:27

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			4.99 g	5 mL	100498	01/17/25 10:45	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100506	01/17/25 17:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100680	01/17/25 17:34	SM	EET MID
Total/NA	Analysis	8015 NM		1			100766	01/20/25 14:13	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	100504	01/17/25 09:29	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100652	01/20/25 14:13	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	100659	01/20/25 10:05	SI	EET MID
Soluble	Analysis	300.0		1			100689	01/20/25 14:33	CH	EET MID

Client Sample ID: S-15 (0-4')

Date Collected: 01/15/25 15:05 Date Received: 01/17/25 08:27

Lab Sample ID: 880-53354-6

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			5.03 g	5 mL	100498	01/17/25 10:45	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100506	01/17/25 18:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100680	01/17/25 18:01	SM	EET MID
Total/NA	Analysis	8015 NM		1			100766	01/20/25 14:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	100504	01/17/25 09:29	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100652	01/20/25 14:29	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	100659	01/20/25 10:05	SI	EET MID
Soluble	Analysis	300.0		1			100689	01/20/25 14:39	CH	EET MID

Client Sample ID: S-16 (0-4')

Date Collected: 01/15/25 15:10

Date Received: 01/17/25 08:27

Lab Sample ID: 880-53354-7

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			5.05 g	5 mL	100498	01/17/25 10:45	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100506	01/17/25 19:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100680	01/17/25 19:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			100766	01/20/25 14:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	100504	01/17/25 09:29	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100652	01/20/25 14:45	TKC	EET MID

Client: Crain Environmental Project/Site: ARU 13

Job ID: 880-53354-1 SDG: Lea Co. NM

Client Sample ID: S-16 (0-4')

Date Collected: 01/15/25 15:10 Date Received: 01/17/25 08:27 Lab Sample ID: 880-53354-7

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	100659	01/20/25 10:05	SI	EET MID
Soluble	Analysis	300.0		1			100689	01/20/25 14:44	CH	EET MID

Client Sample ID: S-17 (0-4') Lab Sample ID: 880-53354-8

Date Collected: 01/15/25 15:15 **Matrix: Solid**

Date Received: 01/17/25 08:27

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	100498	01/17/25 10:45	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100506	01/17/25 20:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100680	01/17/25 20:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			100766	01/20/25 15:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	100504	01/17/25 09:29	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100652	01/20/25 15:01	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	100659	01/20/25 10:05	SI	EET MID
Soluble	Analysis	300.0		1			100689	01/20/25 14:50	CH	EET MID

Client Sample ID: S-18 (0-4') Lab Sample ID: 880-53354-9

Date Collected: 01/15/25 15:20

Date Received: 01/17/25 08:27

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			5.00 g	5 mL	100498	01/17/25 10:45	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100506	01/17/25 20:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100680	01/17/25 20:39	SM	EET MID
Total/NA	Analysis	8015 NM		1			100766	01/20/25 16:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	100504	01/17/25 09:29	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100652	01/20/25 16:59	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	100659	01/20/25 10:05	SI	EET MID
Soluble	Analysis	300.0		1			100689	01/20/25 14:56	CH	EET MID

Client Sample ID: S-19 (0-4') Lab Sample ID: 880-53354-10

Date Collected: 01/15/25 15:25 Date Received: 01/17/25 08:27

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	100498	01/17/25 10:45	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100506	01/17/25 21:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100680	01/17/25 21:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			100766	01/20/25 17:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	100504	01/17/25 09:29	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100652	01/20/25 17:14	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	100659	01/20/25 10:05	SI	EET MID
Soluble	Analysis	300.0		1			100689	01/20/25 15:01	CH	EET MID

Eurofins Midland

Matrix: Solid

Job ID: 880-53354-1 SDG: Lea Co. NM

Client Sample ID: S-20 (0-4')

Date Collected: 01/15/25 15:30 Date Received: 01/17/25 08:27 Lab Sample ID: 880-53354-11

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			4.95 g	5 mL	100498	01/17/25 10:45	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100506	01/17/25 21:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100680	01/17/25 21:32	SM	EET MID
Total/NA	Analysis	8015 NM		1			100766	01/20/25 17:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	100504	01/17/25 09:29	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100652	01/20/25 17:30	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	100659	01/20/25 10:05	SI	EET MID
Soluble	Analysis	300.0		1			100689	01/20/25 15:18	CH	EET MID

Client Sample ID: S-21 (0-4') Lab Sample ID: 880-53354-12

Date Collected: 01/15/25 15:35

Date Received: 01/17/25 08:27

Matrix: Solid

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			4.99 g	5 mL	100498	01/17/25 10:45	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100506	01/17/25 21:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100680	01/17/25 21:58	SM	EET MID
Total/NA	Analysis	8015 NM		1			100766	01/20/25 17:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	100504	01/17/25 09:29	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100652	01/20/25 17:45	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	100659	01/20/25 10:05	SI	EET MID
Soluble	Analysis	300.0		1			100689	01/20/25 15:24	CH	EET MID

Client Sample ID: S-22 (4.1') Lab Sample ID: 880-53354-13

Date Collected: 01/15/25 15:40

Date Received: 01/17/25 08:27

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	100498	01/17/25 10:45	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100506	01/17/25 22:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100680	01/17/25 22:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			100766	01/20/25 18:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	100504	01/17/25 09:29	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100652	01/20/25 18:01	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	100659	01/20/25 10:05	SI	EET MID
Soluble	Analysis	300.0		1			100689	01/20/25 15:41	CH	EET MID

Client Sample ID: S-23 (4.1') Lab Sample ID: 880-53354-14

Date Collected: 01/15/25 15:45 Date Received: 01/17/25 08:27

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	100498	01/17/25 10:45	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100506	01/17/25 22:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100680	01/17/25 22:51	SM	EET MID

Eurofins Midland

Matrix: Solid

Page 31 of 38

Client Sample ID: S-23 (4.1')

Date Collected: 01/15/25 15:45 Date Received: 01/17/25 08:27

Client: Crain Environmental

Project/Site: ARU 13

Lab Sample ID: 880-53354-14

Matrix: Solid

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			100766	01/20/25 18:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	100504	01/17/25 09:29	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100652	01/20/25 18:16	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	100659	01/20/25 10:05	SI	EET MID
Soluble	Analysis	300.0		1			100689	01/20/25 15:47	CH	EET MID

Lab Sample ID: 880-53354-15

Client Sample ID: S-24 (4.1') Date Collected: 01/15/25 15:50 **Matrix: Solid**

Date Received: 01/17/25 08:27

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	100498	01/17/25 09:23	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100506	01/17/25 23:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100680	01/17/25 23:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			100766	01/20/25 18:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	100504	01/17/25 09:29	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100652	01/20/25 18:30	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	100659	01/20/25 10:05	SI	EET MID
Soluble	Analysis	300.0		1			100689	01/20/25 15:52	CH	EET MID

Client Sample ID: S-25 (4.1') Lab Sample ID: 880-53354-16

Date Collected: 01/15/25 15:55

Date Received: 01/17/25 08:27

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	100498	01/17/25 10:45	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100506	01/17/25 23:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100680	01/17/25 23:43	SM	EET MID
Total/NA	Analysis	8015 NM		1			100766	01/20/25 18:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	100504	01/17/25 09:29	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100652	01/20/25 18:47	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	100659	01/20/25 10:05	SI	EET MID
Soluble	Analysis	300.0		1			100689	01/20/25 15:58	CH	EET MIC

Laboratory References:

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

Accreditation/Certification Summary

Client: Crain Environmental Job ID: 880-53354-1
Project/Site: ARU 13 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	NELAP T104704400							
• ,	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						

2

4

5

7

0

10

12

14

Method Summary

Client: Crain Environmental Project/Site: ARU 13

Job ID: 880-53354-1

SDG: Lea Co. NM

_		
_		

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: ARU 13

Job ID: 880-53354-1

SDG: Lea Co. NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-53354-1	S-10 (0-1')	Solid	01/15/25 14:40	01/17/25 08:27	0-1'
880-53354-2	S-11 (0-1')	Solid	01/15/25 14:45	01/17/25 08:27	0-1'
880-53354-3	S-12 (0-1')	Solid	01/15/25 14:50	01/17/25 08:27	0-1'
880-53354-4	S-13 (0-1')	Solid	01/15/25 14:55	01/17/25 08:27	0-1'
880-53354-5	S-14 (0-4')	Solid	01/15/25 15:00	01/17/25 08:27	0-4'
880-53354-6	S-15 (0-4')	Solid	01/15/25 15:05	01/17/25 08:27	0-4'
880-53354-7	S-16 (0-4')	Solid	01/15/25 15:10	01/17/25 08:27	0-4'
880-53354-8	S-17 (0-4')	Solid	01/15/25 15:15	01/17/25 08:27	0-4'
880-53354-9	S-18 (0-4')	Solid	01/15/25 15:20	01/17/25 08:27	0-4'
880-53354-10	S-19 (0-4')	Solid	01/15/25 15:25	01/17/25 08:27	0-4'
880-53354-11	S-20 (0-4')	Solid	01/15/25 15:30	01/17/25 08:27	0-4'
880-53354-12	S-21 (0-4')	Solid	01/15/25 15:35	01/17/25 08:27	0-4'
880-53354-13	S-22 (4.1')	Solid	01/15/25 15:40	01/17/25 08:27	4.1'
880-53354-14	S-23 (4.1')	Solid	01/15/25 15:45	01/17/25 08:27	4.1'
880-53354-15	S-24 (4.1')	Solid	01/15/25 15:50	01/17/25 08:27	4.1'
880-53354-16	S-25 (4.1')	Solid	01/15/25 15:55	01/17/25 08:27	4.1'

Received by OCD: 3/24/2025 9:27:59 PM



Environment Testing Xenco

Chain of Custody

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

880-53354 Chain of Custody	_
880-53354 Chain of Custody	

										,,								www	xenco	.com	Page _	of	2
oject Manager:	Cindy Crain			Bill to: (if	different)			hri:	5 G	addy								W	ork Orc	der Co	er Comments		
ompany Name:	Crain Enviro	nmenta		Company	y Name:			cta		,					Progra	m:	UST/PS	т	PRP.	Brov	wnfields 🗌	RRC .	Superfund
ddress:	2925 E. 17+	~ St.		Address:					1. W		Ste	.30	0	_			ct: /						
ity, State ZIP:	Udessa, TX	7976)	City, State	e ZIP:		Mi	dla	nd,	TX		701			Report	ting: l	evel II	□ L	evel III [P	ST/UST	TRRP	Level IV
none:	(575) 441-7	244	Email:	cind	ly. Cra	in									Delive	rables:	ED	D		ADaP	т□ о	ther:	
oject Name:	ARU 13		Turn	Around							Α	NALY:	SIS RE	QUES	Т		1			1	Prese	rvative Co	des
roject Number:	_		Boutine	Rush		res.															None: NO	DIV	Water: H ₂ O
oject Location:	Lea Co. NM		Due Date:																		Cool: Cool		OH: Me
mpler's Name:	Cindy Crain		TAT starts the																		HCL: HC	HNO	O ₃ : HN OH: Na
AMPLE RECEIPT	Femp Blank:	Yes No) Wet Ice:	Yes	No	Parameters	M														H ₃ PO ₄ : HP		
imples Received Int		Thermomete	er ID:	TR		ram	5		100												NaHSO ₄: N	ABIS	
ooler Custody Seals:	Yes No N/A	Correction F	actor:	-	-/	Pa	8015		0												Na ₂ S ₂ O ₃ : N	aSO ₃	
ample Custody Seals	s: Yes No N/A	Temperature	Reading:	4	9			4	10												Zn Acetate-	+NaOH: Zn	
otal Containers:		Corrected Te	emperature:	14	8		HH	(L)	9		1										NaOH+Asco	orbic Acid: S	APC
Sample Ident	tification Matrix	Date Sampled	Time Sampled	Depth		of	11	BTEX	Chlarides												Samp	ele Comme	ents
5-10 (b-	11) 5	1/15/25	1440	0-1	C	1	\times	\times	\times														
5-11 (0-	.1.)		1445	0-1'			1																
	-11)		1450	0-1																			
	0-1)		1455	0-1'																			
	-4.)		1500	0-4																			
	0-4.)		1505	0-4																			
5-16 (c)-4.)		1510	0-4'																			
	0-4.)		1515	0-4																			
5-18 (2-4.)		1520	0-4"																			
5-19 (0)-4.)	1	1525	0.4	V	V	V	1	V														
Total 200.7 / 601 ircle Method(s)	10 200.8 / 6020: and Metal(s) to be an		TCLP/S		s 11 Al : 8RCRA									_				_	_		TI Sn U V / 7470 / 74		
service. Eurofins Xenco w	current and relinquishment of sam vill be liable only for the cost of sam um charge of \$85.00 will be applied	ples and shall not	assume any respo	nsibility for a	ny losses or e	apense	es incum	ed by th	e dient il	such loss	es are due	to circui	mstances	s beyon	d the cor	ntroi	ed.						
Relipquished by	(Signature)	Received	y: (Signature	e)			Date/	Time		Rel	nquish	ed by	: (Sign	ature	2)		Receiv	ved b	y: (Sign	nature)	Date/Tir	ne
Circle	rain	M			,	11.	7	4	27	2													
		4			,					4													

Revised Date: 08/25/2020 Rev. 2020.2









Received by OCD: 3/24/2025 9:27:59 PM



Environment Testing Xenco

Chain of Custody

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

Work Order N	o:
---------------------	----

	1/. ,	<u></u>							/1	1	_ (1 1 1						7		enco.co			of «	
Project Manager:		y Cri				Bill to: (if o			Chris Gaddy					\dashv	Work Order Comments									
Company Name:	Crain	CON	1500	mental		Company	Name:		Octane					\dashv	Program: UST/PST PRP Brownfields RRC Superfund					nd∐l				
Address:				th 54.		Address:			310 W. Wall, Ste. 300						-	State of Project: NM								
City, State ZIP:				7976		City, State			Midland, TX 79701 Qamail.com						-	Reporting: Level II Level III PST/UST TRRP Level IV Deliverables: EDD ADaPT Other:						П		
Phone:	1575)44	1-	1244	Email:	Cin	dy. C	rain	1 @ C	ma	11. C	<u>an</u>				Deliv	erables	: ED) L	A	DaPT 🗌	Oth	er:	
Project Name:	ARU	13			Turn	Around			ANALYSIS REQU						REQUE	UEST						Preservative Codes		
Project Number:	-				Routine	Rush		Pres. Code												None	: NO	DI Water:	H₂O	
Project Location:	Lea	Co.,	MM		Due Date:										1-						Cool:	Cool	MeOH: Me	
Sampler's Name:	Cindy	^			TAT starts the day received by																HCL:	HC	HNO 3: HN	
PO #:	_ '				the lab, if rec	ceived by 4:30pm															H₂S0	4: H 2	NaOH: Na	
SAMPLE RECEIPT	1	Temp Bla	nk:	Yes No	Wet Ice:	Yes N	Yes No Yes		Z												H ₃ PC	4: HP		
Samples Received Int	act:	Yes N	0	Thermomete	er ID:			ram	615		Ŋ										NaHS	O 4: NAE	BIS	
Cooler Custody Seals:	Ye	s No	N/A	Correction F	actor:			Pa	0		0										Na ₂ S	₂ O ₃ : NaS	O 3	
Sample Custody Seals	: Ye	s No	N/A	Temperatur	e Reading:				8	X	16												aOH: Zn	
Total Containers:				Corrected T	emperature:				HAL	TEX	2					İ					NaOh	I+Ascorb	oic Acid: SAPC	
Sample Identification Matrix Date Time Sampled Sampled			The state of the s	Depth	Grab/ Comp		F	0	Chloride											Sample	Comments			
5-20	(0-4.)		5	1/15/25	1530	0-4"	C	1	\times	\times	X													
5-21	10-4.				1535	0-4"					1													
5-22	(4.1)				1540	4.)																		
5-23	(4.1				1545	4.1'																		
5-24	(4.1))			1550	4.11																		
525	(4.1))	V	V	1555	4.1'	V	1	V	V	V					-				-				
													-		-	-	-		+	+				
Total 200.7 / 601 Circle Method(s)		0.8 / 60 I(s) to b			RCRA 13PF TCLP/S									Cu Fe Pb	_				_	_	Sr Tl Sr 5.1 / 747			
Notice: Signature of this doc of service. Eurofins Xenco w of Eurofins Xenco. A minima	vill be liable only	for the co	st of sam	ples and shall not	assume any respo	nsibility for an	y losses or	expens	es incum	ed by th	e dient i	such losse	s are du	e to circumstan	ces bey	ond the c	ontrol	ted.						
Relinguished by (Signature) Received by: (Signature)						Date/			Relinquished by: (Sign							(Signat	nature)		Date/Time					
' Cerdy	sain		-	T	0				7	7 462		7 2												
3				V				1				4										-		
5												6					1					Pauls and C	Pate: 08/25/2020 Rev. 20	









Login Sample Receipt Checklist

Client: Crain Environmental Job Number: 880-53354-1 SDG Number: Lea Co. NM

Login Number: 53354 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	

3

Λ

6

8

10

13

14



Appendix D: Photographic Documentation

Received by OCD: 3/24/2025 9:27:59 PM

APPENDIX D PHOTOGRAPHIC DOCUMENTATION ANDERSON RANCH UNIT #013 INCIDENT #nAPP2426256273



View to N of staining at wellhead (8/28/24).



View to SW of treated area (9/25/24).



View to SE of sample S-6 (9/25/24).



View to S of sample S-9 (9/25/24).



View to W of excavation N and E of wellhead (1/15/25).



View to NW of excavation N and E of wellhead (1/15/25).



View to N of excavation W of wellhead (1/15/25).



Appendix E: Waste Manifests



Ticket Number 111557 01/22/25 02:50 PM

GENERATOR

Generator: GRAND BANK ENERGY CO Generator Contact: EDDIE JARAMILLO 10 DESTA DR, STE 300 E

MIDLAND, TX 79705 Phone No.: (222)222-2222 Lease: ARU #13 Location: ARU #13

Job Contact: CHRIS GADDY Phone Number: (432)620-9481

DISPOSAL FACILITY

Site Name/Permit No.: Commercial Landfill (NM-01-0019)

P.O. Box 1658 Roswell, NM 88202 Office (575) 347-0434 Fax (575)347-0435

NORM Readings Taken: No Reading > 50 micro roentgens: No Pass the Paint Filter Test: No

Box Number:

WASTE MATERIAL

Material Quantity Cell

OCD EXEMPT SOILS 20.00 YDS LF

TRANSPORTER

Name: PONDEROSA TRUCKING

Address: Phone No.:

Driver Name: Truck Number: 54 Phone No.:

I Hearby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed above.

Driver Signature

C-138

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is:

RCRA Exempt:

Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. (Gandy Marley, Inc. accepts certifications on a per month only basis.)

☐RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261-24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached:

RCRA Hazardous Waste Analysis

MSDS Information

Other (Provide Description Below)

Emergency Non-Oilfield:

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

Name

Signature

Billy Jack Clayton

Name



Ticket Number 111521 01/22/25 09:49 AM

GENERATOR

Generator: GRAND BANK ENERGY CO Generator Contact: EDDIE JARAMILLO 10 DESTA DR, STE 300 E

MIDLAND, TX 79705 Phone No.: (222)222-2222 Lease: ARU #13 Location: ARU #13

Job Contact: CHRIS GADDY Phone Number: (432)620-9481

DISPOSAL FACILITY

Site Name/Permit No.: Commercial Landfill (NM-01-0019) P.O. Box 1658 Roswell, NM 88202 Office (575) 347-0434

NORM Readings Taken: No Reading > 50 micro roentgens: No Pass the Paint Filter Test: No

Box Number:

WASTE MATERIAL

Material

Quantity

Cell

OCD EXEMPT SOILS

Fax (575)347-0435

20.00 YDS

LF

TRANSPORTER

Name: PONDEROSA TRUCKING

Address: Phone No.: Driver Name: Truck Number: 54 Phone No.:

I Hearby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed above.

Driver Signature

C-138

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is:

RCRA Exempt:

Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. (Gandy Marley, Inc. accepts certifications on a per month only basis.)

☐RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261-24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D,

as amended. The following documentation demonstrating the waste as non-hazardous is attached:

MSDS Information

RCRA Hazardous Waste Analysis

Other (Provide Description Below)

■ Emergency Non-Oilfield:

Emergency non-hazardous, non-oilfied waste that has been ordered by the Department of Public Safety. (The order, documentation of non-hazardous waste determination, and a description of the waste must

accompany this form.)

KIMBERLY MURPHY Name

Name



Ticket Number 111542 01/22/25 12:26 PM

GENERATOR

Generator: GRAND BANK ENERGY CO Generator Contact: EDDIE JARAMILLO

10 DESTA DR, STE 300 E MIDLAND, TX 79705 Phone No.: (222)222-2222 Lease: ARU #13 Location: ARU #13

Job Contact: CHRIS GADDY Phone Number: (432)620-9481

DISPOSAL FACILITY

Site Name/Permit No.: Commercial Landfill (NM-01-0019) P.O. Box 1658

Roswell, NM 88202 Office (575) 347-0434 Fax (575)347-0435

NORM Readings Taken: No Reading > 50 micro roentgens: No Pass the Paint Filter Test: No

Box Number:

WASTE MATERIAL

Material

Quantity

Cell

OCD EXEMPT SOILS

20.00 YDS

LF

TRANSPORTER

Name: PONDEROSA

Address: Phone No.:

Driver Name: Truck Number: 54 Phone No.:

I Hearby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed above.

fil Lupa

Driver Signature

C-138

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is:

RCRA Exempt:

Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste.

(Gandy Marley, Inc. accepts certifications on a per month only basis.)

☐RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261-24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached:

RCRA Hazardous Waste Analysis

MSDS Information

Other (Provide Description Below)

☐ Emergency Non-Oilfield:

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

Name

Signature

Billy Jack Clayton

Name



Ticket Number 111633 01/27/25 01:38 PM

GENERATOR

Generator: GRAND BANK ENERGY CO Generator Contact: EDDIE JARAMILLO

10 DESTA DR, STE 300 E MIDLAND, TX 79705 Phone No.: (222)222-2222

Lease: ARU #13 Location: ARU #13

Job Contact: CHRIS GADDY Phone Number: (432)620-9481

DISPOSAL F	ACILITY
------------	---------

Site Name/Permit No.: Commercial Landfill (NM-01-0019) P.O. Box 1658

Roswell, NM 88202 Office (575) 347-0434 Fax (575)347-0435

NORM Readings Taken: No Reading > 50 micro roentgens: No Pass the Paint Filter Test: No

Box Number:

WAST	BA A	TED	AI
CHAR	IVIA	IEN	AL

Material

Quantity

Cell

OCD EXEMPT SOILS

20.00 YDS

LF

TRANSPORTER

Name: PONDEROSA TRUCKING

Address: Phone No.: Driver Name: Truck Number: 54 Phone No.:

I Hearby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed above.

Driver Signature

C-138

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is:

RCRA Exempt:

Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. (Gandy Marley, Inc. accepts certifications on a per month only basis.)

RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261-24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached:

MSDS Information

RCRA Hazardous Waste Analysis

Other (Provide Description Below)

☐ Emergency Non-Oilfield:

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

Name

Signature

Billy Jack Clayton

Name



Ticket Number 111614 01/27/25 11:15 AM

GENERATOR

Generator: GRAND BANK ENERGY CO Generator Contact: EDDIE JARAMILLO 10 DESTA DR, STE 300 E

MIDLAND, TX 79705 Phone No.: (222)222-2222 Lease: ARU #13 Location: ARU #13

Job Contact: CHRIS GADDY Phone Number: (432)620-9481

Quantity

20.00 YDS

DISPOSAL FACILITY

Site Name/Permit No.: Commercial Landfill (NM-01-0019)

P.O. Box 1658 Roswell, NM 88202 Office (575) 347-0434 Fax (575)347-0435

OCD EXEMPT SOILS

NORM Readings Taken: No Reading > 50 micro roentgens: No Pass the Paint Filter Test: No

Box Number:

WASTE MATERIAL

Material

Cell LF

TRANSPORTER

Name: PONDEROSA TRUCKING

Address: Phone No.: Driver Name: Truck Number: 54 Phone No.:

I Hearby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed above.

Driver Signature

C-138

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is:

RCRA Exempt:

Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. (Gandy Marley, Inc. accepts certifications on a per month only basis.)

☐RCRA NON-EXEMPT:

MSDS Information

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261-24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached:

RCRA Hazardous Waste Analysis

Other (Provide Description Below)

■ Emergency Non-Oilfield:

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

Name

Signature

Billy Jack Clayton

Name



Ticket Number 111634 01/27/25 01:40 PM

GENERATOR

Generator: GRAND BANK ENERGY CO Generator Contact: EDDIE JARAMILLO 10 DESTA DR, STE 300 E

MIDLAND, TX 79705 Phone No.: (222)222-2222 Lease: ARU #13 Location: ARU #13

Job Contact: CHRIS GADDY Phone Number: (432)620-9481

Email:

DISPOSAL FACILITY

Site Name/Permit No.: Commercial Landfill (NM-01-0019) P.O. Box 1658

Roswell, NM 88202 Office (575) 347-0434 Fax (575)347-0435 NORM Readings Taken: No Reading > 50 micro roentgens: No Pass the Paint Filter Test: No

Box Number:

WASTE	MAT	ERIAL
-------	-----	-------

Material

Quantity

Cell

OCD EXEMPT SOILS

20.00 YDS

LF

TRANSPORTER

Name: PONDEROSA TRUCKING

Address: Phone No.: Driver Name: Truck Number: 56 Phone No.:

I Hearby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed above.

frat

Driver Signature

C-138

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is:

☑ RCRA Exempt:

Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. (Gandy Marley, Inc. accepts certifications on a per month only basis.)

☐RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261-24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D,

as amended. The following documentation demonstrating the waste as non-hazardous is attached:

MSDS Information

□RCRA Hazardous Waste Analysis

Other (Provide Description Below)

☐ Emergency Non-Oilfield:

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

accompany tris ioini.)

Name

Signature

Billy Jack Clayton

Name



Ticket Number 111651 01/28/25 09:40 AM

GENERATOR

Generator: GRAND BANK ENERGY CO Generator Contact: EDDIE JARAMILLO 10 DESTA DR, STE 300 E

MIDLAND, TX 79705 Phone No.: (222)222-2222 Lease: ARU #13 Location: ARU #13

Job Contact: CHRIS GADDY Phone Number: (432)620-9481

DISPOSAL FACILITY

Site Name/Permit No.: Commercial Landfill (NM-01-0019) P.O. Box 1658

Roswell, NM 88202 Office (575) 347-0434 Fax (575)347-0435

NORM Readings Taken: No Reading > 50 micro roentgens: No Pass the Paint Filter Test: No

Box Number:

WASTE	MAT	ERIAL
-------	-----	-------

Material

Quantity

Cell

OCD EXEMPT SOILS

20.00 YDS

LF

TRANSPORTER

Name: PONDEROSA TRUCKING

Address: Phone No.:

Driver Name: Truck Number: 56 Phone No.:

I Hearby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed above.

Driver Signature

C-138

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is:

RCRA Exempt:

Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. (Gandy Marley, Inc. accepts certifications on a per month only basis.)

RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261-24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached:

MSDS Information

RCRA Hazardous Waste Analysis

Other (Provide Description Below)

☐ Emergency Non-Oilfield:

Emergency non-hazardous, non-oilfied waste that has been ordered by the Department of Public Safety. (The order, documentation of non-hazardous waste determination, and a description of the waste must

accompany this form.)

Name

Signature

Billy Jack Clayton

Name



Ticket Number 111661 01/28/25 12:00 PM

GENERATOR

Generator: GRAND BANK ENERGY CO Generator Contact: EDDIE JARAMILLO 10 DESTA DR, STE 300 E

MIDLAND, TX 79705 Phone No.: (222)222-2222 Lease: ARU #13 Location: ARU #13

Job Contact: CHRIS GADDY Phone Number: (432)620-9481

DISPOSAL FACILITY

Site Name/Permit No.: Commercial Landfill (NM-01-0019)

P.O. Box 1658 Roswell, NM 88202 Office (575) 347-0434 Fax (575)347-0435

NORM Readings Taken: No Reading > 50 micro roentgens: No Pass the Paint Filter Test: No

Box Number:

WA	ST	Ε	М	А٦	ſΕ	RI	AL	

Material

Quantity

Cell

OCD EXEMPT SOILS

20.00 YDS

LF

TRANSPORTER

Name: PONDEROSA TRUCKING

Address: Phone No.:

Driver Name: Truck Number: 56 Phone No.:

I Hearby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility

Driver Signature

C-138

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is:

RCRA Exempt:

listed above.

Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste.

(Gandy Marley, Inc. accepts certifications on a per month only basis.)

RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261-24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D,

as amended. The following documentation demonstrating the waste as non-hazardous is attached:

MSDS Information

RCRA Hazardous Waste Analysis

Other (Provide Description Below)

■Emergency Non-Oilfield:

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

Name

Signature

Billy Jack Clayton

Name



Ticket Number 111615 01/27/25 11:16 AM

GENERATOR

Generator: GRAND BANK ENERGY CO Generator Contact: EDDIE JARAMILLO 10 DESTA DR, STE 300 E

MIDLAND, TX 79705 Phone No.: (222)222-2222 Lease: ARU #13 Location: ARU #13

Job Contact: CHRIS GADDY Phone Number: (432)620-9481

Email:

D	IS	Þ	O	S	Δ	F	Δ	C	II I	IT	Y	,

Site Name/Permit No.: Commercial Landfill (NM-01-0019)

P.O. Box 1658 Roswell, NM 88202 Office (575) 347-0434 Fax (575)347-0435 NORM Readings Taken: No Reading > 50 micro roentgens: No Pass the Paint Filter Test: No

Box Number:

WAS	EN	ATE	RIA	L
-----	----	-----	-----	---

Material

Quantity

Cell

OCD EXEMPT SOILS

20.00 YDS

LF

TRANSPORTER

Name: PONDEROSA TRUCKING Address:

Phone No.:

Driver Name: Truck Number: 56 Phone No.:

I Hearby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed above.

shof

Driver Signature

C-138

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is:

RCRA Exempt:

Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. (Gandy Marley, Inc. accepts certifications on a per month only basis.)

☐RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261-24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, an amended. The following decompositation demonstrating the waste as non-hazardous is attached:

as amended. The following documentation demonstrating the waste as non-hazardous is attached:

MSDS Information

RCRA Hazardous Waste Analysis

Other (Provide Description Below)

☐ Emergency Non-Oilfield:

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

accompany this form.)

Name

Signature

Billy Jack Clayton

Name

GM inc.

NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST / DISPOSAL TICKET

Calo	and bank	GENERAT	Location of Or	rigin	MB.
Generator Name			Lease/Well		
Address			Name & No		
			County		
City, State, Zip			API No		
Phone No.			Rig Name & N	0	A TOTAL CONTRACTOR OF THE CONT
Company Man			AFE/PO No		201
TRUCK TIM	ME STAMP	DISPOSAL FA	CILITY	Ri	ECEIVING AREA
IN: OL	UT:			Name/No. Land	fill
		40)			
Site Name / Permit No. Com			Phone No. 57	5-347-0434	V - 144
71001000	Box 1658 Roswell, NM 8820		WVE0	- di 50i	0 (Otrala Oca) V50 NO
	ken? (Circle One) YES r Test? (Circle One) YES	NO NO	IT YES, was re	ading > 50 micro roent	gens? (Circle One) YES NO
	7		DTED		
Transporter's Name	Inclierosa	THANSFOR			/
			Truck No	Fig. 1 cm	
Address					tarte
					11.7
Phone No.				ad delivered without inci-	dent to the disposal facility listed below
i nereby certify that the above h	amed material(s) was/were pi	cked up at the Generator's s	ite iisted above ar	ia deliverea without inci	dent to the disposal facility listed below
SHIPMENT DATE	DRIVER'S SIGNAT	URF	DELIVER	Y DATE	DRIVER'S SIGNATURE
	E&P Waste/Service Identifi		e volume next to		
Oil Based Muds Oil Based Cuttings		Fluid/Flowback Vater (Non-Injectable)		OTHER EXEMPT V	VASTE
Water Based Muds		ine Water/Waste			
Water Based Cuttings .	Cement Wa			OTHER MON EVE	MOT WASTE
Produced Formation Solids .	Truck Wash Trash & Del	out /Jet Out		OTHER NON-EXE	MPT WASTE
Tank Bottoms . E&P Contaminated Soil .	Trasti & Det	oris			
Gas Plant Waste					
WASTE GENERATION PROCESS	S: Drilling	- Completion	□ Pi	roduction	☐ Gathering Lines
	Non-Exe	empt E&P Waste/Service	Identification ar	nd Amount	
(All non-ex	cempt E&P waste must be analyze	zed and be below the threshold	limits for toxicity (TCLP), ignition, corrosiven	ness, and reactivity.)
Non-Exempt Other:			*Please select	from Non-Exempt Waste	List on back
QUANTITY:	B - Barrels	L - Lic	quid	Y - Yards	E - Each
		C-138			
I hereby certify that according to described waste load is (Check the		Recovery Act (RCRA) and the	US Environmenta	l Protection Agency's July	/ 1988 regulatory determination, the above
RCRA EXEMPT:			production operat	tions and are not mixed w	rith non-exempt waste. (Gandy Marley, Inc
☐ RCRA NON-EXEMPT:			ed the minimum et	andards for waste hazarda	ous by characteristics established in RCRA
A HONA NON-EXEMPT.	regulations, 40 CFR 261.21-2		te as defined by 40	CFR, part 261, subpart D,	as amended. The following documentation
☐ MSDS Info	ormation	RCRA Hazardous	Waste Analysis	□ Ot	ther (Provide Description Below)
		on-oilfield waste that has been	ordered by the De	epartment of Public Safety	. (The order, documentation of non-hazard-
☐ EMERGENCY NON-OILFIELD		a description of the waste mu		form.)	



Ticket Number 111693 01/29/25 01:48 PM

GENERATOR

Generator: GRAND BANK ENERGY CO Generator Contact: EDDIE JARAMILLO

10 DESTA DR, STE 300 E MIDLAND, TX 79705 Phone No.: (222)222-2222 Lease: ARU #13 Location: ARU #13

Job Contact: CHRIS GADDY Phone Number: (432)620-9481

Email:

DISPOSAL FACILITY

Site Name/Permit No.: Commercial Landfill (NM-01-0019) P.O. Box 1658 Roswell, NM 88202

Roswell, NM 88202 Office (575) 347-0434 Fax (575)347-0435 NORM Readings Taken: No Reading > 50 micro roentgens: No Pass the Paint Filter Test: No

Box Number:

WASTE MATERIAL

Material

Quantity

Cell

OCD EXEMPT SOILS

20.00 YDS

LF

TRANSPORTER

Name: PONDEROSA TRUCKING

Address: Phone No.: Driver Name: Truck Number: 41 Phone No.:

I Hearby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility

listed above.

Difference Of the sections

Driver Signature

C-138

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is:

RCRA Exempt:

Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. (Gandy Marley, Inc. accepts certifications on a per month only basis.)

(Gandy Mariey, Inc. accepts certifications on a per month only basis.)

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261-24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D,

as amended. The following documentation demonstrating the waste as non-hazardous is attached:

☐MSDS Information

☐RCRA NON-EXEMPT:

□RCRA Hazardous Waste Analysis

Other (Provide Description Below)

☐ Emergency Non-Oilfield:

Emergency non-hazardous, non-oilfied waste that has been ordered by the Department of Public Safety. (The order, documentation of non-hazardous waste determination, and a description of the waste must

accompany this form.)

Name

Signature

Billy Jack Clayton

Name

q _{M_inc.}

M inc.	741	86		
(2)		GENERA		A A POLICE A DO
Generator Name	Tax IX		Location of Original Lease/Well	gin
Address				
			County	
City, State, Zip				
Phone No.).
Company Man				****
Company Warr				
TRUCK TIM	IE STAMP	DISPOSAL I	FACILITY	RECEIVING AREA
IN:OL	JT:			Name/No. Landfill
Site Name / Permit No. Comm	nercial Landfill (NM-01-00	19)	Phone No. 575	5-347-0434
	ox 1658 Roswell, NM 882	The state of the s	Priorie No	
NORM Readings Tak	ken? (Circle One) YES Test? (Circle One) YES	NO NO	If YES, was read	ding > 50 micro roentgens? (Circle One) YES NO
-		TRANSPO	ORTER	and the state of t
Transporter's Name	16 mm	The second secon	Print Name	and M
Address				91
			Bin No.	
Phone No.				
The second secon		Committee of the Commit		d delivered without incident to the disposal facility listed below.
				the same acceptance
SHIPMENT DATE	DRIVER'S SIGNAT	URE	DELIVERY	DATE DRIVER'S SIGNATURE
Exempt E	&P Waste/Service Identifi	cation and Amount (Pla	ce volume next to	waste type in barrels or cubic yards)
Oil Based Muds		Fluid/Flowback		OTHER EXEMPT WASTE
Oil Based Cuttings	Produced V	Vater (Non-Injectable)		
	Gathering L Cement Wa	Line Water/Waste		
•		nout /Jet Out		OTHER NON-EXEMPT WASTE
Tank Bottoms	Trash & Del	bris		
E&P Contaminated Soil Gas Plant Waste				V-
	D Dellina	D Completion	D.D	D Cathadas Lines
WASTE GENERATION PROCESS:		□ Completion		duction Gathering Lines
(All non-exe		empt E&P Waste/Servic zed and be below the thresho		d Amount CLP), ignition, corrosiveness, and reactivity.)
Non-Exempt Other:			*Please select fr	rom Non-Exempt Waste List on back
QUANTITY:	B - Barrels	L-1	iquid	Y - Yards E - Each
		C-13	88	
I hereby certify that according to the described waste load is (Check the		Recovery Act (RCRA) and t	he US Environmental	Protection Agency's July 1988 regulatory determination, the above
☐ RCRA EXEMPT:			nd production operation	ons and are not mixed with non-exempt waste. (Gandy Marley, Inc.
☐ RCRA NON-EXEMPT:		61.24, or listed hazardous wa	aste as defined by 40 C	ndards for waste hazardous by characteristics established in RCRA CFR, part 261, subpart D, as amended. The following documentation items as provided.)
☐ MSDS Infor		RCRA Hazardous		Other (Provide Description Below)
			acte / mary and	
☐ EMERGENCY NON-OILFIELD:	Emergency non-hazardous, rous waste determination and			partment of Public Safety. (The order, documentation of non-hazard-rm.)

DATE

DATE

GMI

NAME (PRINT) Released to Imaging: 6/16/2025 10:05:18 AM

(PRINT) AUTHORIZED AGENTS SIGNATURE

TITLE SIGNATURE

SIGNATURE

SUPERIOR PRINTING SERVICE, INC.

Sante Fe Main Office Phone: (505) 476-3441 General Information Phone: (505) 629-6116

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

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

QUESTIONS

Action 445157

QUESTIONS

Operator:	OGRID:
GRAND BANKS ENERGY CO	155471
310 W Wall St.	Action Number:
Midland, TX 79701	445157
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites		
Incident ID (n#)	nAPP2426256273	
Incident Name	NAPP2426256273 ANDERSON RANCH UNIT #013 @ 30-025-00391	
Incident Type	Oil Release	
Incident Status	Remediation Closure Report Received	
Incident Well	[30-025-00391] ANDERSON RANCH UNIT #013	

Location of Release Source				
Please answer all the questions in this group.				
Site Name	ANDERSON RANCH UNIT #013			
Date Release Discovered	03/29/2024			
Surface Owner	State			

Incident Details	Incident 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 for the volumes provided should be attached to the follow-up C-141 submission.		
Crude Oil Released (bbls) Details	Cause: Normal Operations Well Crude Oil Released: 7 BBL Recovered: 0 BBL Lost: 7 BBL.	
Produced Water Released (bbls) Details	Not answered.	
Is the concentration of chloride in the produced water >10,000 mg/l	No	
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)	The Anderson Ranch Unit #013 release at the wellhead is being remediated/reclaimed according to State Land Office (SLO) specifications. This is a historical release.	

General Information Phone: (505) 629-6116

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

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

QUESTIONS, Page 2

Action 445157

QUESTIONS (continued)		
Operator: GRAND BANKS ENERGY CO	OGRID: 155471	
310 W Wall St. Midland, TX 79701	Action Number: 445157	
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)	
QUESTIONS		
Nature and Volume of Release (continued)		
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.	
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	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. gas only) are to be submitted on the C-129 form.		
Initial Response The responsible party must undertake the following actions immediately unless they could create a s.	afety hazard that would result in injury.	
The source of the release has been stopped	True	
The impacted area has been secured to protect human health and the environment	True	
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True	
All free liquids and recoverable materials have been removed and managed appropriately	True	

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

Not answered.

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

Name: Socorro Hendry
Title: Regulatory Manager
Email: socorro.hendry@octane-energy.com
Date: 03/24/2025

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

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

Phone: (505) 629-6116 Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS, Page 3

Action 445157

QUESTIONS (continued)

	Operator:	OGRID:
ı	GRAND BANKS ENERGY CO	155471
ı	310 W Wall St.	Action Number:
ı	Midland, TX 79701	445157
ı		Action Type:
		[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approva 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)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	U.S. Geological Survey
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release ar	nd the following surface areas:
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 100 and 200 (ft.)
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	Greater than 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	Between 100 and 200 (ft.)
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	Between 100 and 200 (ft.)
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 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	Yes		
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contaminatio	Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.		
Have the lateral and vertical extents of contamination been fully delineated	Yes		
Was this release entirely contained within a lined containment area	No		
Soil Contamination Sampling: (Provide the highest observable value for each, in m	nilligrams per kilograms.)		
Chloride (EPA 300.0 or SM4500 Cl B)	1280		
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	420		
GRO+DRO (EPA SW-846 Method 8015M)	420		
BTEX (EPA SW-846 Method 8021B or 8260B)	0		
Benzene (EPA SW-846 Method 8021B or 8260B)	0		
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.			
On what estimated date will the remediation commence	08/20/2024		
On what date will (or did) the final sampling or liner inspection occur	01/15/2025		
On what date will (or was) the remediation complete(d)	01/29/2025		
What is the estimated surface area (in square feet) that will be reclaimed	884		
What is the estimated volume (in cubic yards) that will be reclaimed	240		
What is the estimated surface area (in square feet) that will be remediated 884			
What is the estimated volume (in cubic yards) that will be remediated 240			
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.			

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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

Phone: (505) 629-6116 Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us **Energy, Minerals and Natural Resources Oil Conservation Division** 1220 S. St Francis Dr.

QUESTIONS, Page 4

Action 445157

QUESTIONS (continued)

Santa Fe, NM 87505

State of New Mexico

Operator:	OGRID:
GRAND BANKS ENERGY CO	155471
310 W Wall St.	Action Number:
Midland, TX 79701	445157
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

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	TNM-55-95 [fAB000000061]
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.
OR is the off-site 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.

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

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

Name: Socorro Hendry Title: Regulatory Manager I hereby agree and sign off to the above statement Email: socorro.hendry@octane-energy.com Date: 03/24/2025

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.

General Information Phone: (505) 629-6116

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

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

QUESTIONS, Page 5

Action 445157

QUESTIONS (continued)

Operator:	OGRID:
GRAND BANKS ENERGY CO	155471
310 W Wall St.	Action Number:
Midland, TX 79701	445157
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of 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

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

Phone: (505) 629-6116
Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS, Page 6

Action 445157

QUESTIONS (continued)

Operator:	OGRID:
GRAND BANKS ENERGY CO	155471
310 W Wall St.	Action Number:
Midland, TX 79701	445157
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded 433529	
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/25/2025
What was the (estimated) number of samples that were to be gathered	4
What was the sampling surface area in square feet	100

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	884
What was the total volume (cubic yards) remediated	240
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	884
What was the total volume (in cubic yards) reclaimed	240
Summarize any additional remediation activities not included by answers (above)	Upon NMOCD approval of this Closure Report, the excavation will be backfilled to grade with nonimpacted similar material obtained from a nearby 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.

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

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

I hereby agree and sign off to the above statement

Name: Socorro Hendry
Title: Regulatory Manager
Email: socorro.hendry@octane-energy.com
Date: 03/24/2025

General Information Phone: (505) 629-6116

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

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

QUESTIONS, Page 7

Action 445157

QUESTIONS (continued)

Operator:	OGRID:
GRAND BANKS ENERGY CO	155471
310 W Wall St.	Action Number:
Midland, TX 79701	445157
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

General Information Phone: (505) 629-6116

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

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

CONDITIONS

Action 445157

CONDITIONS

Operator:	OGRID:
GRAND BANKS ENERGY CO	155471
310 W Wall St.	Action Number:
Midland, TX 79701	445157
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Create By	Condition	Condition Date
nvele	z None	6/16/2025