

Tom Closson #1

Released Volume Calculation

Length 9 feet

Width 8 feet

Thickness 3 in

Gals = 216

Bbls = 5.1428571 Est. Total Bbls Released

Volume = $L * W * T$

Total Released Volume =

216 gallons (US, dry)

5.14 bbls



Revised Site Characterization Report and Remediation Workplan

April 14, 2025

Tom Closson #001
API No. 30-025-08801
Incident No. nAPP2228055393
Lea County, New Mexico

Prepared For:

FAE II Operating, LLC
11757 Katy Freeway, Suite 725
Houston, Texas 77079

Prepared By:

Crain Environmental
2925 East 17th Street
Odessa, Texas 79761

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

Cynthia K. Crain, P.G.



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Tom Closson #001
 Revised Site Characterization Report and Remediation Workplan



1.0 Introduction

FAE II Operating, LLC (FAE) has retained Crain Environmental (CE) to prepare a Site Characterization Report and Remediation Workplan for the Tom Closson #001 (Site) located in Unit Letter J, Section 6, Township 22 South, Range 36 East, Lea County, New Mexico, at Global Positioning Coordinates (GPS) 32.4199915, -103.3013047. The Site is in an area of oil and gas activity and cattle grazing, and the surface is owned by the United States Bureau of Land Management (BLM). Figure 1 provides a Site Location Map.

2.0 Background

On October 6, 2022, FAE personnel observed a release of produced water from a storage tank inside the tank battery and immediately reported the release to the New Mexico Oil Conservation Division (NMOCD) by telephone. Immediately following the release, the area was secured, and the source of the release (the dump valve) was repaired. The released fluid was mostly contained within the battery but seeped under the firewall approximately 20 feet to the southwest, and approximately 20 feet to the southeast. Produced water impacted a surface area of approximately 18,750 square feet. No fluids were recovered, but saturated soil outside the firewall was excavated and hauled to a New Mexico approved disposal facility.

The NMOCD Form C-141 (Release Notification Report) was received by the New Mexico Oil Conservation Division (OCD) on October 12, 2022, and the Site was assigned Incident Number nAPP2228055393. The Initial C-141 reports a release of 2 barrels (bbls) of oil and 15 bbls of produced water from the water tank on October 6, 2022, with 0 bbls of fluid recovered. The release point and the surface extent of the produced water release are depicted on Figure 2.

On October 20, 2023, January 17, 2024, and April 17, 2024, 90-day extensions for submittal of a Site Characterization Report and Remediation Workplan (Workplan) were approved by the NMOCD, with a final due date of July 16, 2024. After submitting the Workplan to the NMOCD on July 1, 2024, FAE elected to change the remediation procedure from in-situ to a combination of in-situ and ex-situ treatment and requested a 30-day extension to complete the revised document. The NMOCD approved the extension on July 31, 2024, with a due date of August 15, 2024. A copy of the NMOCD correspondence is included in Appendix A.

On February 26, 2024, the BLM conducted a surface inspection at the Site and presented FAE with a Notice of Written Order (Notice). The Notice stated that large amounts of surface contaminants were found on the well pad and surrounding areas and requested that a Workplan detailing removal of surface contaminants be submitted by April 10, 2024. Appendix B provides a copy of the BLM letter.

CE was contacted by FAE on March 18, 2024, and conducted a site inspection on March 20, 2024. During the inspection, CE observed areas of historical hydrocarbon impacts to the surface within the tank battery, to the west and northwest of the battery (extending approximately 100 feet to the northwest), and to the east of the battery (extending approximately 520 feet). Appendix C provides photographic documentation.



On April 9, 2024, a Remediation Workplan was submitted to the BLM via email. The BLM verbally approved the Workplan in a conference call on April 18, 2024. On May 7, 2024, additional site investigation activities (as described in Section 4.6) were conducted by CE, and the results were included in the Site Characterization Report and Remediation Workplan that was submitted to the NMOCD on July 1, 2024.

On August 15, 2024, a Revised Site Characterization Report and Remediation Workplan was submitted to the NMOCD. The revised Workplan provided a change in the remediation procedure from in-situ to a combination of in-situ and ex-situ treatment.

On September 17, 2024, the NMOCD rejected the Workplan for the following reasons:

1. The depth to groundwater has not been adequately determined.
2. Use of microblaze for in-situ purposes is denied.
3. Small Landfarm permit would be required for ex-situ microblaze application.
4. Increase in sampling frequency is not accepted until bullet #1 has been adequately addressed.

After discussions with the NMOCD regarding soil treatment with hydrogen peroxide versus MicroBlaze, this Revised Site Characterization Report and Remediation Workplan is being submitted to propose an alternative method of soil treatment using hydrogen peroxide treatment for remediation of soil related to Incident #nAPP2228055393 and to all historical release areas as described in Section 5.0.

3.0 NMOCD Closure Criteria

Cleanup standards for releases 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.

Tom Closson #001
Revised Site Characterization Report and Remediation Workplan



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

3.1 Groundwater Evaluation

A review of the New Mexico Office of the State Engineer (NMOSE) records indicated there is one water well (CP 00469) located within 0.5 mile of the Site, with depth to groundwater recorded at 195' below ground surface (bgs). Well CP 00469 was installed in 1969 and is listed in the table below.

On December 5, 2024, CE measured the depth to groundwater in the well casing of the windmill located 140' northeast of the Site. A water level indicator was inserted into the casing and dropped to a depth of 105' bgs and groundwater was not encountered. Figure 3 provides a 0.5-mile radius circle around the Site and shows the location of CP 00469 and the windmill. Photographic documentation is provided in Appendix C.

Nearby Water Wells

Well ID	Location from Release Site	Year Installed	Use	Depth to Water (feet bgs)
CP 00469	Approx. 0.3 mile to northwest	1969	N/A	195

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 3, the Site is not located:

- Within 300 feet of any continuously flowing watercourse or any other significant watercourse.
 - No continuously flowing watercourses (rivers, streams, arroyos, etc.) are apparent within 300 feet of the Site in the topographic map (Figure 1).
- Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary highwater mark).
 - The topographic map (Figure 1) indicates there is not a lakebed, sinkhole or playa lake located within 200 feet of the Site. The nearest playa lake is located 1.24 miles southwest of the Site.
- Within 300 feet from an occupied permanent residence, school, hospital, institution or church.
 - The Site Location Map (Figure 1) and information available from the Lea County, New Mexico Central Appraisal District do not show or list any permanent residence, school, hospital, institution or church located within 300 feet of the Site.
- Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes.
 - No wells or springs located within 500 feet of the Site appear in any of the NMOSE records reviewed by CE.
- Within 1,000 feet of any fresh water well or spring.



- No fresh water wells or springs located within 1,000 feet of the Site appear in any of the records reviewed by CE.
- Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to Section 3-27-3 NMSA 1978 as amended.
 - Based on the property and other records review by CE, the Site is not located in incorporated municipal boundaries or within a defined municipal fresh water well field.
- Within the area overlying a subsurface mine.
 - Based on the property and other records reviewed by CE, the Site is not located within an area overlying a subsurface mine.
-

3.3 Wetlands, Floodplain, and Karst Geology

A review of the United States Fish and Wildlife Service (USFWS) wetlands map indicated the Site is not located within 300 feet of a wetland. The nearest freshwater emergent wetland is located 1.24 miles southwest of the Site. The New Mexico Bureau of Land Management (BLM) karst potential map indicates the Site is located within a "low karst potential" area. Finally, review of the Federal Emergency Management Act (FEMA) floodplain map indicates the release at the Site is located in an area of undetermined flood hazard and is assumed to be located outside of a 100-year floodplain. Figures 4, 5, and 6 depict the USFWS wetlands map, FEMA floodplain information, and the karst potential data, respectively.

3.4 Closure Criteria Applicable to the Site

Based on the depth to groundwater at the windmill located 140' northeast of the Site being greater than 105' bgs, the least stringent NMOCD Closure Criteria will apply to soil deeper than 4' bgs. The most stringent Closure Criteria will be applicable to soil from the surface to a depth of 4' bgs. A summary of the Closure Criteria is provided in the table below and in Table 1.

NMOCD Closure Criteria

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

Notes: NA = not applicable
 bgs = below ground surface
 mg/kg = milligrams per kilogram
 GRO = gasoline range organics
 DRO = diesel range organics
 MRO = motor oil range organics
 TPH = total petroleum hydrocarbons

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



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, groundwater was not encountered to a depth of 105' bgs in the windmill located 140' northeast of the Site.

4.3 Wellhead Protection Area

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

4.4 Distance to Nearest Significant Watercourse

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

4.5 Summary of 2005 Soil Investigation

Historical research showed that FAE purchased the Site from Mammoth Exploration, LLC (Mammoth) on January 27, 2022. Mammoth purchased the Site from Saber Oil and Gas Ventures, LLC (Saber) on September 1, 2008, and Saber purchased the Site from Guadalupe Operating, LLP (Guadalupe) on February 1, 2004.

On March 22, 2005, July 26, 2005, and November 30, 2005, Guadalupe conducted soil investigations at the Tom Closson #001 tank battery and the area east of the tank battery. Soil samples were collected from 14 locations across the Site by Allstate Environmental Services, LLC (Allstate). Summaries of the investigation activities were submitted to the NMOCD on April 18, 2005, and December 5, 2005.

Appendix D provides a copy of a Cleanup Plan (Plan) that was submitted to the NMOCD on April 18, 2005, and a revised Plan that was submitted to the NMOCD on December 5, 2005. The Plan(s) provides figures showing the sample locations, tables that summarize the laboratory results, and copies of the laboratory reports. Referring to data in the Plan(s), Total Petroleum Hydrocarbons (TPH) are shown as the only constituent of concern, and chloride concentrations in all samples were reported below the NMOCD Closure Criteria. As soil remediation described in the letter dated December 5, 2005, was not conducted, the following remediation activities were proposed to the BLM and were conducted on May 7, 2024.



4.6 Summary of May 2024 Analytical Results

On May 7, 2024, soil samples were collected from locations previously sampled by Allstate (sample points 1 [SB-1], 8 [SB-6], 9 [SB-4], 11 [SB-5], and BH-3 [SB-3]) at a depth of 1 foot below ground surface (bgs) to determine if concentrations of TPH and chlorides are similar to concentrations reported in the 2005 Allstate document. Additional soil samples were collected from the sample designated as SB-2 (at depths of 1', 3', and 4.1' bgs), and from sample locations 1 (SB-1) and BH-3 (SB-3) at depths of 3', and 4.1' bgs. All samples were placed in clean glass samples jars, properly labeled, immediately placed on ice, and hand delivered to Eurofins Environment Testing (Eurofins) for analysis of TPH and chlorides. Soil samples collected at depths of 1' and 3' bgs from sample points 1 (SB-1), SB-2, and BH-3 (SB-3), were also analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX), along with the sample from SB-2 at a depth of 4.1' bgs. Table 1 provides a summary of the laboratory results. Figure 2 shows the sample locations. Photographic documentation is provided in Appendix C. The laboratory report and chain of custody documentation is provided in Appendix E.

Referring to Table 1, concentrations of BTEX and chlorides were reported below the test method detection limits or Closure Criteria in all samples. Concentrations of TPH were vertically delineated in samples collected within the area of Incident #nAPP2228055393 (SB-1, SB-2, and SB-3), and at sample point SB-5. Vertical delineation of TPH was not achieved at sample points SB-4 and SB-6; however, current concentrations at sample points SB-1 (Allstate 1), SB-3 (Allstate BH-3), SB-4 (Allstate 9), SB-5 (Allstate 11), and SB-6 (Allstate 8) were reported less than concentrations recorded in the 2005 Allstate document.

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

4.7 Laboratory Analytical Data Quality Assurance/Quality Control Results

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

5.0 Proposed Remediation Workplan

5.1 Proposed Remedial Activities

FAE proposes to remove the tanks, piping, and all ancillary equipment from the tank battery and conduct ex-situ remediation of all affected soil in the area shown on Figure 2. It is estimated that approximately 75,000 cubic yards (cy) of soil will be remediated, and remediation of the area will be conducted in 6 separate sections. The size of each section is estimated and may be adjusted as remediation proceeds.



As TPH has been verified to be the only constituent of concern at the Site, FAE proposes to conduct soil remediation by soil shredding methods, treating soil with hydrogen peroxide as soil is processed through the shredder.

As the area covers approximately 3.5 acres, remediation will be conducted in sections (as shown on Figure 2). Beginning at the east edge of the remediation area, impacted soil will be excavated by section until bottom and sidewall samples of that section report TPH and chloride concentrations below the Closure Criteria.

Following excavation of each section, samples will be collected from the base and sidewalls of the excavation and delivered to Eurofins for analysis of TPH by EPA Method 8015M and chlorides by EPA Method 300.0. Excavation will continue if TPH or chloride concentrations are reported above the Closure Criteria. As initial BTEX concentrations were below the test method detection limits or Closure Criteria, each confirmation sample will only be analyzed for TPH and chlorides. Pursuant to 19.15.29.12(D) NMAC, confirmation samples will consist of five-point composite samples, and discrete grab samples will be collected from any wet or discolored areas.

As soil is excavated, it will be processed through the soil shredder. A solution of 6% hydrogen peroxide will be applied to the soil as it runs through the shredder. Shredded soil will be placed on plastic beside the excavation and allowed to stabilize for a period of at least 24 to 48 hours prior to sample collection.

Following treatment and stabilization, samples will be collected from the treated soil at a rate of 1 sample per 100 cy of soil. All samples will be analyzed for TPH and chlorides only. If the laboratory reports TPH or chloride concentrations above the Closure Criteria, the soil will be processed through the shredder again, while applying an additional solution of 6% hydrogen peroxide. Upon receipt of laboratory results that all TPH and chloride concentrations from the treated soil and the excavation base and sidewalls are below the Closure Criteria, the excavation will be backfilled to surface grade with the treated soil, and excavation will proceed to the next section.

Due to the large footprint of the Site (approximately 3.5 acres), FAE requests a variance from the one soil sample per 200 square foot requirement for confirmation sampling. FAE requests composite confirmation sample collection be performed for each 400 square feet of excavation floor and each 30 linear feet of excavation sidewall. Each confirmation sample will be analyzed only for TPH by EPA Method 8015M. Sample notification will be provided to the NMOCD via the portal at least 2 days prior to sample collection(s).

Pursuant to 19.15.29.13 NMAC, all impacted surface areas will be restored to pre-release conditions. Upon completion of remediation in all sections, surface grading will be performed to near original conditions and contoured to prevent erosion and ponding, promote stability, and preserve storm water flow patterns. Upon completion of contouring, a high-nitrogen fertilizer will be tilled into the upper 1' of soil to promote plant growth.

During the next favorable growing season following completion of remediation, seeding of all remediated areas will be conducted. Seed will be introduced by seed drill method using the BLM Seed Mix #2 (planted in the amount specified in the pounds live seed (PLS) per acre), and fresh water will be applied for two consecutive weeks following re-seeding.

Tom Closson #001
Revised Site Characterization Report and Remediation Workplan



Given the size of the affected area and the cost of remediation, FAE respectfully requests a remediation schedule of 2 years from the date of NMOCD approval of this *Site Characterization Report and Remediation Workplan* to complete the proposed remediation activities and submit a *Remediation Summary and Closure Report* for NMOCD and BLM approval. The closure report will summarize remedial activities and confirmation sampling results and will include the final Form C-141.

5.2 Schedule of Implementation

FAE is prepared to begin remediation activities within 30 days of NMOCD approval of this Workplan, and the NMOCD and BLM will be notified at least 2 business days prior to the start of remediation activities.

The NMOCD and BLM will be provided with a project update following completion of remediation at each section.

A Closure Report for Incident #nAPP2228055393 and surrounding historical areas will be submitted to the NMOCD and BLM following completion of all proposed remediation activities.

6.0 Distribution

- Copy 1: Mike Bratcher
New Mexico Energy, Minerals, and Natural Resources Department
Oil Conservation Division, District 2
811 S. First Street
Artesia, New Mexico 88210
- Copy 2: Billy Moore
FAE II Operating, LLC
11757 Katy Freeway, Suite 725
Houston, Texas 77079
- Copy 3: Crisha A. Morgan
Bureau of Land Management – Carlsbad Field Office
620 East Greene Street
Carlsbad, New Mexico 88220



TABLE

TABLE 1
SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS
FAE II OPERATING, LLC
TOM CLOSSON #001
NMOCD INCIDENT # nAPP2228055393

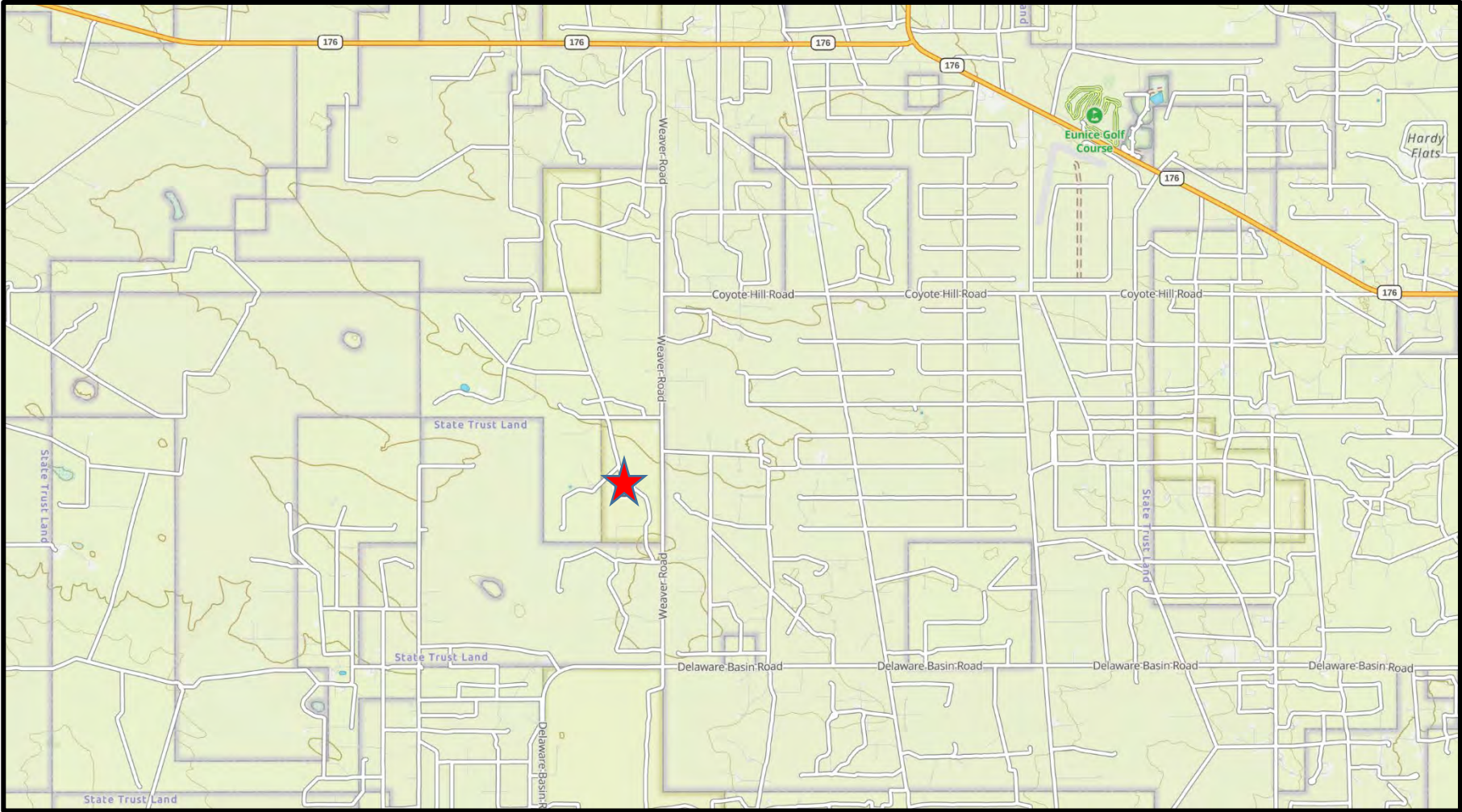
Sample ID	Sample Date	Sample Depth (bgs)	Soil Status	TPH (GRO)	TPH (DRO)	TPH (MRO)	Total TPH	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	Chloride
				milligrams per kilogram (mg/kg)									
NMOCD Closure Criteria							100	10	-	-	-	50	600
NMOCD Closure Criteria (>4' bgs)				GRO + DRO = 1,000	-		2,500	10	-	-	-	50	20,000
SB-1 (1')	05/07/24	1'	In Situ	<500	8,120	1,600	9,720	<0.0996	<0.0996	<0.0996	<0.199	<0.199	534
SB-1 (3')	05/07/24	3'	In Situ	60.5	1,970	<50.0	2,030	<0.0401	0.0683 +*1	0.132 +*1	0.449 +*1	0.649	289
SB-1 (4.1')	05/07/24	4.1'	In Situ	<49.6	<49.6	<49.6	<49.6	--	--	--	--	--	227
SB-2 (1')	05/07/24	1'	In Situ	<994	7,710	<994	7,710	<0.398	0.101 +*1	1.05 + *1	5.24 + *1	6.39	175
SB-2 (3')	05/07/24	3'	In Situ	<498	<498	<498	<498	0.212 +*1	0.0914 +*1	0.0526 +*1	0.807 +*1	1.16	21.8
SB-2 (4.1')	05/07/24	4.1'	In Situ	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	493
SB-3 (1')	05/07/24	1'	In Situ	<996	1,850	<996	1,850	<0.0399	0.180 +*1	1.33 +*1	6.56 +*1	8.07	30.4
SB-3 (3')	05/07/24	3'	In Situ	<999	2,950	<999	2,950	<0.0398	0.275 +*1	0.681 +*1	5.23 +*1	6.19	24.1
SB-3 (4.1')	05/07/24	4.1'	In Situ	<49.9	<49.9	<49.9	<49.9	--	--	--	--	--	14.0
SB-4 (1')	05/07/24	1'	In Situ	<990	4,040	<990	4,040	--	--	--	--	--	<4.97
SB-4 (4.1')	05/07/24	4.1'	In Situ	<249	5,320	<249	5,320	--	--	--	--	--	--
SB-5 (1')	05/07/24	1'	In Situ	<999	3,690	<999	3,690	--	--	--	--	--	<5.03
SB-5 (4.1')	05/07/24	4.1'	In Situ	<49.8	183	<49.8	183	--	--	--	--	--	--
SB-6 (1')	05/07/24	1'	In Situ	<995	5,910	<995	5,910	--	--	--	--	--	<4.99
SB-6 (4.1')	05/07/24	4.1'	In Situ	<49.7	1,880	<49.7	1,880	--	--	--	--	--	--
SB-6 (6.5')	05/07/24	6.5'	In Situ	<249	3,710	<249	3,710	--	--	--	--	--	--
SB-6 (9')	05/07/24	9'	In Situ	<250	6,740	<250	6,740	--	--	--	--	--	--



Notes:

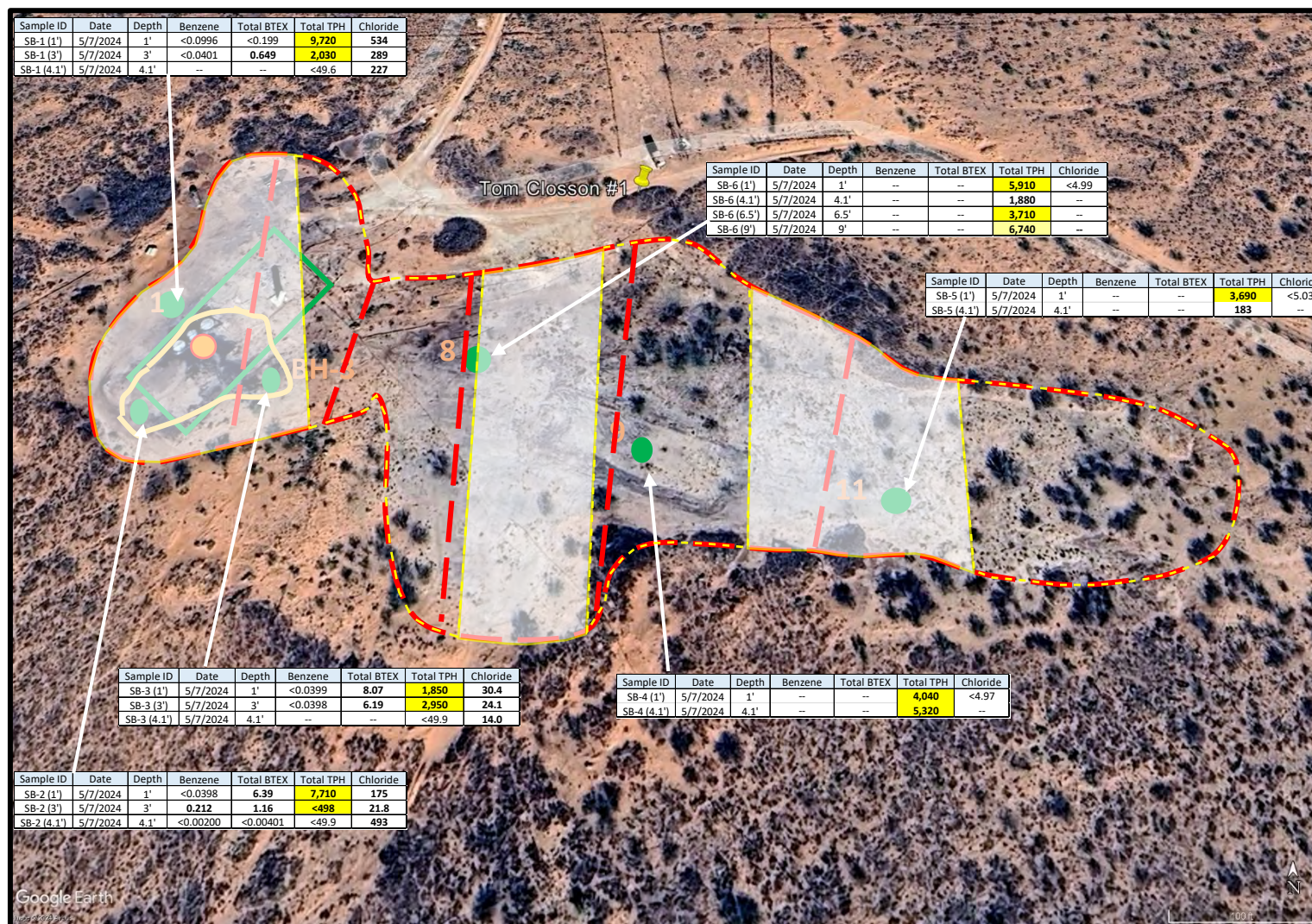
1. GRO: Gasoline Range Organics
2. DRO: Diesel Range Organics
3. MRO: Motor Oil Range Organics
4. -: No NMOCD Closure Criteria established.
5. bgs: Below Ground Surface
6. Bold indicates the COC was above the appropriate laboratory method/sample detection limit.
7. < indicates the COC was below the appropriate laboratory method/sample detection limit.
8. Bold and yellow highlighting indicates the COC was above the appropriate NMOCD Closure Criteria.
9. +: LCS and/or LCSD is outside acceptance limits, high biased.
10. *1: LCS/LCSD RPD exceeds control limits.
11. --: The sample was not analyzed for the constituent.



FIGURES



LEGEND:  Site Location Base Map From GAIA GPS	Figure 1 Site Location Map	Drafted by: CC Checked by: CC	
	FAE II Operating, LLC	Draft: April 3, 2024	
	Tom Closson #001	GPS: 32.4199915° -103.3013047°	
	Lea County, New Mexico		

**LEGEND:**

- Release Point for Incident nAPP2228055393
- Tank Battery Boundary
- Sample Location with Concentrations and Allstate Sample Number
- Approximate Proposed Remediation Boundary With Sections
- Incident nAPP2228055393 Release Path

Figure 2
Site Map With Sample Locations

FAE II Operating, LLC
 Tom Closson #001
 Lea County, New Mexico

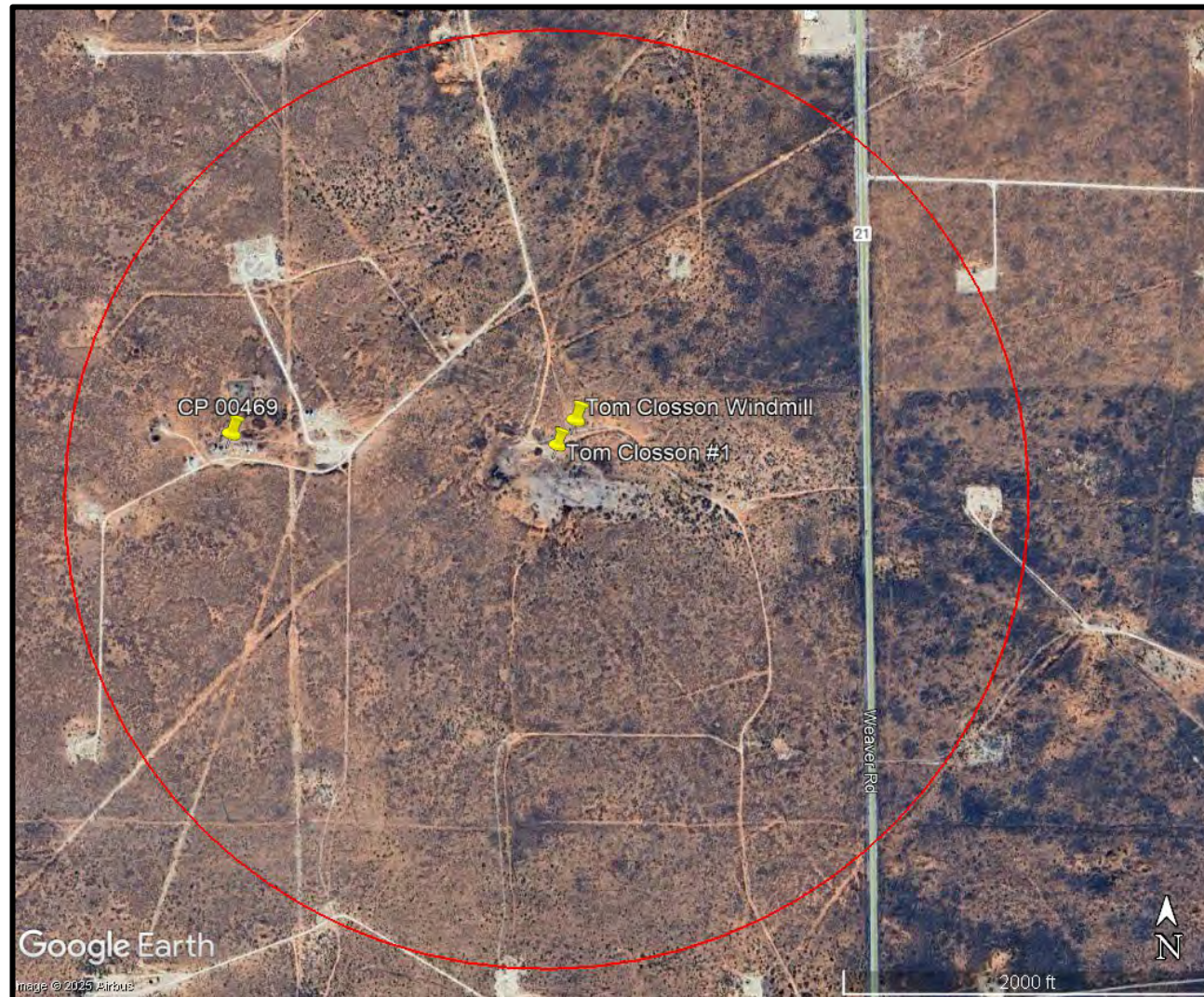
Drafted by: CC | Checked by: CC



Draft: August 10, 2024

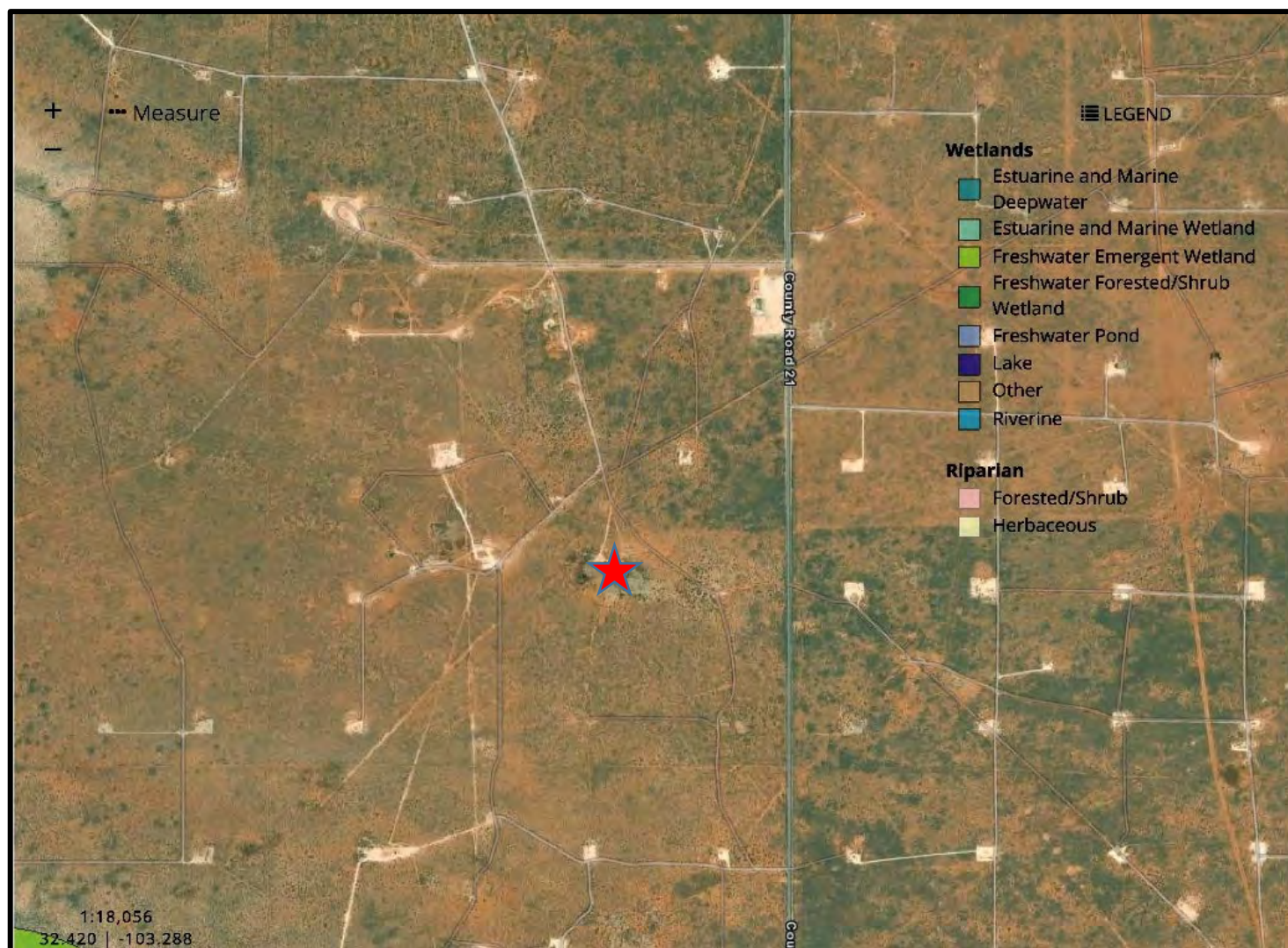
GPS: 32.4199915° -103.3013047°



Base Map From GoogleEarth Pro

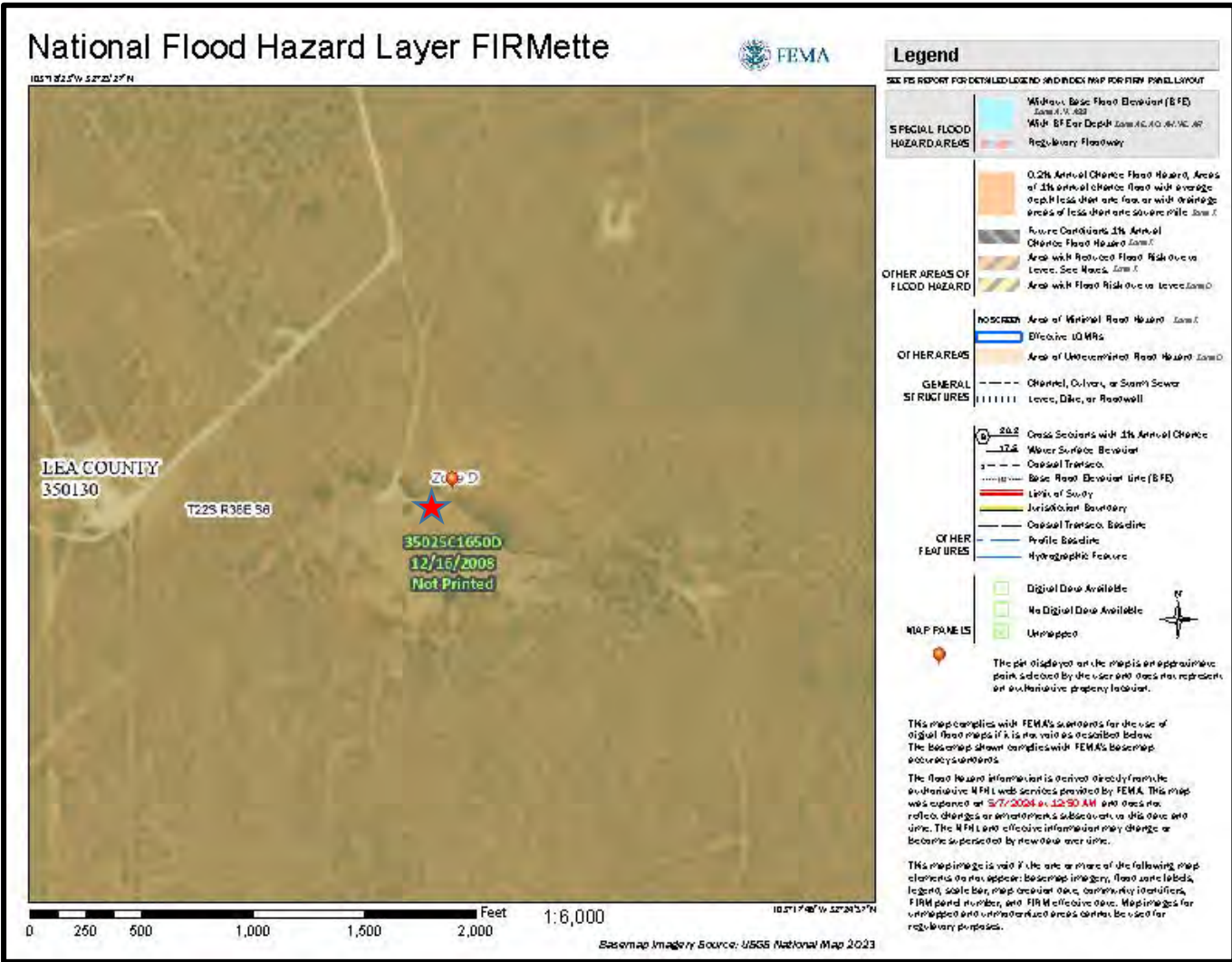






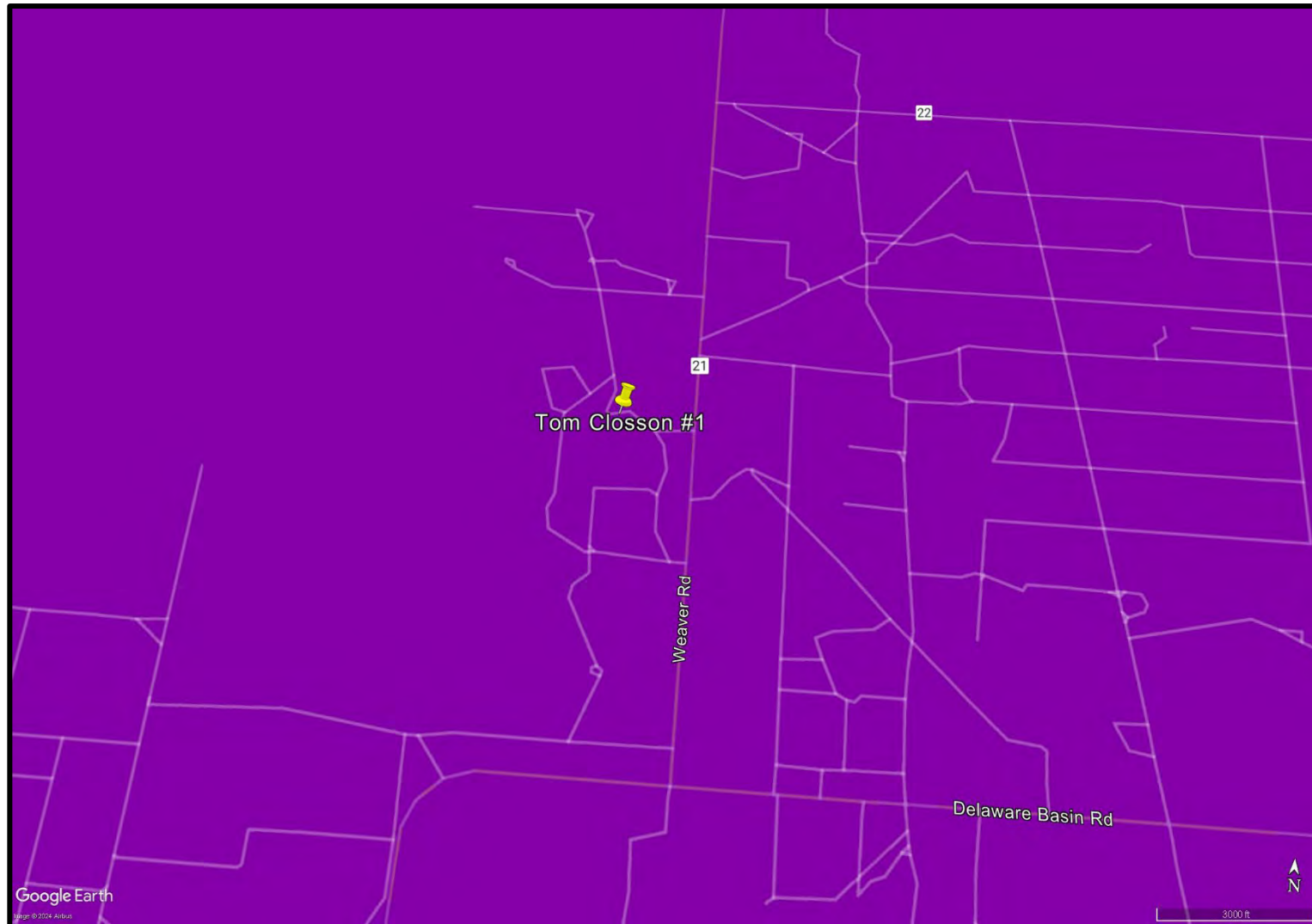
LEGEND:  Site and Well Location Base Map From Google Earth Pro	Figure 3 Wellhead Protection Area Map FAE II Operating, LLC Tom Closson #001 Lea County, New Mexico	Drafted by: CC Checked by: CC Draft: April 12, 2025 GPS: 32.4199915° -103.3013047°	




LEGEND:  Site Location Base Map From USFW.gov	Figure 4 National Wetlands Inventory Map FAE II Operating, LLC Tom Closson #001 Lea County, New Mexico		
		Drafted by: CC Checked by: CC	
		Draft: April 12, 2025	
		GPS: 32.4199915° -103.3013047°	



LEGEND:  Site Location Base Map From FEMA.gov	Figure 5 FEMA Floodplain Map FAE II Operating, LLC Tom Closson #001 Lea County, New Mexico		
		Drafted by: CC Checked by: CC	
		Draft: June 15, 2024	
		GPS: 32.4199915° -103.3013047°	



<p>LEGEND:</p> <div> <div></div> Low Karst Potential </div> <div> <div></div> Medium Karst Potential </div> <div> <div></div> High Karst Potential </div> <p>Base Map From Google Earth Pro and BLM.gov</p>	<p>Figure 6</p> <p>Karst Potential Map</p> <p>F AE II Operating, LLC</p> <p>Tom Closson #001</p> <p>Lea County, New Mexico</p>	<div>Drafted by: CC Checked by: CC</div> <div>Draft: April 12, 2025</div> <div>GPS: 32.4199915° -103.3013047°</div>	
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APPENDIX A

NMOCD COMMUNICATION

From: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Sent: Wednesday, April 17, 2024 2:34 PM
To: Alex Bolanos <alex@faenergyus.com>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: Re: [EXTERNAL] FAE II Operating C-141 Extension Request

Alex,

Thanks for the correspondence. All six (6) incidents have had two (2) extensions granted. This will be the last time extension approved for 90-days (July 16, 2024).

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

The OCD requires a copy of all correspondence relative to remedial activities be included in all proposals and/or final closure reports. Correspondence required to be included in reports may include, but not limited to, notifications for liner inspections, sample events, spill/release/fire, and request for time extensions or variances.

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.state.nm.us/OCD/>

From: Alex Bolanos <alex@faenergyus.com>
Sent: Tuesday, April 16, 2024 10:44 AM

To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Subject: [EXTERNAL] FAE II Operating C-141 Extension Request

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

Nelson,

FAE II Operating, requests a 90-day extension for the following releases:

1. Arnott Ramsay NCT-B Battery–Incident No.: nAPP2304957943
 - Initial delineation sampling has been completed. Currently awaiting on proposed work plan.
2. Farnsworth 4 #007 / SWD–Incident No.: nAPP2225654053
 - Initial delineation sampling has been completed. Currently awaiting on proposed work plan.
3. Tom Closson Battery –Incident No.: nAPP2228055393
 - FAE II needs to provide correct Liner Inspection notice and give time for liner inspection. Closure report awaiting proper liner inspection notice.
4. Tom Closson Battery (new-2023) – Incident No.: nAPP2317251245
 - Environmental company still working on characterization. Delayed due to work in other area.
5. Eva Blinberry #20 – Incident No.: nAPP2321657306
 - FAE II Moving on location this week to excavate.
6. Teague Injection Station – Incident No.: nAPP2320959193
 - FAE II is about to backfill this location. We had to wait on topsoil from surface owner.

If you have any questions or need additional information on these, please let me know.

Thanks, Nelson.

Alex Bolanos
(832) 689-3788

No. NAPP2228055393_Tom Closson #001

Inbox

**Alex Bolanos**

to Nelson,, Billy, me

Wed, Jul 31, 10:58 AM (1 day ago)



Nelson,

FAE II Operating is currently working on revising the site characterization and remediation work plan for the above mentioned release. We will have that revision together shortly.

We would like to request a 30-day extension to revise the site characterization and remediation work plan.

Thanks,

Alex Bolanos

alex@faenergyus.com

(832) 689-3788

**Velez, Nelson, EMNRD**

to Alex, Billy, me

Wed, Jul 31, 11:03 AM (1 day ago)



Good morning Alex,

Your time extension request is approved. Remediation Due date has been updated to August 15, 2024.

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

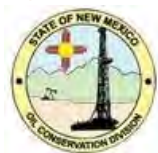
The OCD requires a copy of all correspondence relative to remedial activities be included in all proposals and/or final closure reports. Correspondence required to be included in reports may include, but not limited to, notifications for liner inspections, sample events, spill/release/fire, and request for time extensions or variances.

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/oed>



Cindy Crain <cindy.crain@gmail.com>

The Oil Conservation Division (OCD) has rejected the application, Application ID: 359860

4 messages

OCDOnline@state.nm.us <OCDOnline@state.nm.us>
To: cindy.crain@gmail.com

Tue, Sep 17, 2024 at 3:32 PM

To whom it may concern (c/o Cindy Crain for FAE II Operating LLC),

The OCD has rejected the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2228055393,
for the following reasons:

- 1. The depth to groundwater has not been adequately determined. When nearby wells are used to determine depth to groundwater, the wells should be no further than ½ mile away from the site, and data should be no more than 25 years old, and well construction information should be provided in the submission. The responsible party may choose to remediate to the most stringent levels listed in Table 1 of 19.15.29 NMAC in lieu of drilling to determine the depth to groundwater. 2. Use of microblaze for in-situ purposes is denied. 3. Small landfarm permit per 19.15.36.16 NMAC would be required as it pertains to ex-situ microblaze application. Please refer to the definition of small landfarm per 19.15.36.7A (5) NMAC for size restrictions. 4. Increase in sampling frequency is not accepted until bullet #1 has been adequately addressed. 5. FAE has 90-days (December 16, 2024) to submit to OCD its appropriate or final remediation closure report.

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 359860.

Please review and make the required correction(s) prior to resubmitting.

If you have any questions why this application was rejected or believe it was rejected in error, please contact me prior to submitting an additional C-141.

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

New Mexico Energy, Minerals and Natural Resources Department
[1220 South St. Francis Drive](#)
[Santa Fe, NM 87505](#)

Cindy Crain <cindy.crain@gmail.com>
To: Billy Moore <billy@faenergyus.com>
Cc: Alex Bolanos <alex@faenergyus.com>

Mon, Sep 23, 2024 at 5:03 PM

Hi Billy,

Please see below for OCD denial of the Tom Closson #1 Workplan. As we discussed on the phone, we will check to see if water well CP 00469 (32.420014, -103.307332) is available to measure down to at least 100', and a Revised Workplan including the depth to water information and use of hydrogen peroxide versus MicroBlaze will be submitted to the OCD by the December 16, 2024 deadline.

A map showing the location for CP 00469 is attached.

Please let me know if you have any questions.

Thank you,
Cindy Crain

[Quoted text hidden]

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



Water well map.jpg
2270K

Billy Moore <billy@faenergyus.com>
To: Cindy Crain <cindy.crain@gmail.com>

Tue, Sep 24, 2024 at 9:01 AM

Cindy – there is an active water well there.

[Quoted text hidden]

Cindy Crain <cindy.crain@gmail.com>
To: Billy Moore <billy@faenergyus.com>

Tue, Jan 28, 2025 at 2:29 PM

Billy,

As I mentioned to you the other day, estimated costs for remediation using ex-situ hydrogen peroxide treatment are more than the estimate I previously provided you for a combination of in-situ/ex-situ treatment using MicroBlaze.

Ponderosa has estimated their costs for excavation, treatment, and backfill on a 6,000 cubic yard (cy) basis. I have added in costs for Crain Environmental oversight, sample collection, and OCD communication, etc., and laboratory costs (to be paid by FAE).

The total estimated cost to **treat 6,000 cy is \$323,000**. Based on a 6,000 cy treatment area, the entire area of remediation is broken down into 6.5 sections, for a **Total estimated cost of \$2,100,000**.

Attached please find a map that shows the breakdown of the separate sections.

Please let me know if you have any questions, or if you would like me to go ahead and prepare the revised Remediation Workplan to include the use of hydrogen peroxide for remediation (spread over a 5-year period).

Thank you,
Cindy Crain

[Quoted text hidden]

 **Fig 7_1.28.25 Treatment Areas.pdf**
636K



APPENDIX B

BUREAU OF LAND MANAGEMENT NOTICE OF WRITTEN ORDER

Form 3160-18
(November 2019)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

NOTICE OF WRITTEN ORDER

Number 24JJJ0009W
Page 1 of 3

<input checked="" type="checkbox"/> Certified Mail-Return Receipt Requested 9589071052700175550369		Identification	
<input type="checkbox"/> Hand Delivered, Received By and Date		Lease	NMLC030132A
		Agreement	

Bureau of Land Management Office Carlsbad Field Office		Operator or Third Party FAE II OPERATING LLC	
Address 620 E. Greene St. Carlsbad, NM 88220		Address 11757 Katy Freeway, Suite 725 Houston, TX 77079	
Telephone 5752346252	Inspector JADEN JOHNSTON	Attention	
Site Name TOM CLOSSON	Well/Facility/FMP/Identification# 01	Legal Land Description (Include Lat./Long.) NWSE, 6-22S-36E (32.4199915/-103.3013047)	
Site Name	Well/Facility/FMP/Identification#	Legal Land Description (Include Lat./Long.)	
Site Name	Well/Facility/FMP/Identification#	Legal Land Description (Include Lat./Long.)	

THE FOLLOWING ISSUE(S) WERE FOUND BY BUREAU OF LAND MANAGEMENT INSPECTORS ON THE DATE AND AT THE SITE(S) LISTED.

Date	Time (24-hour Clock)	Corrective Action to be Completed By	Date Corrected	Authority Reference
02/26/2024	10:00	04/10/2024		43CFR3162.1(a)

Remarks:

Problem: During a surface inspection on 2/26/2024, found large amounts of surface contaminants on the well pad and surrounding areas.

Corrective Action: The operator will need to submit a workplan document detailing how they plan on removing surface contaminants. The workplan will need to be submitted via email or mail by no later than 4/10/2024. Email pictures of completed work to Environmental Surface Protection Specialist Intern Jaden Johnston and contact with any questions or concerns.

Cell Phone: 575-988-1787
Desk Phone: 575-234-6252
Email: jjjohnston@blm.gov

When the Written Order is complied with, sign this notice and return to above address.

Company Representative Signature: _____ Print Name: _____ Date: _____

Company Comments:

In accordance with 43 CFR 3165.1(a), you must comply with the corrective actions for the identified issue(s) by the abatement date provided above. If you fail to comply within the time frames specified, you will be issued an Incident of Noncompliance (INC) in accordance with 43 CFR 3163.1(a), which may include an assessment or additional enforcement actions as deemed necessary to gain compliance.

WARNING

The Authorized Officer has authority to issue a Written Order in accordance with 43 CFR 3161.2. Per 43 CFR 3165.3, Written Order and reporting time frames begin upon receipt of the Notice, or seven business days after the date it is mailed, whichever is earlier. Each issue must be corrected by the "Action to be Completed By" date identified above. This form must be signed, dated, and postmarked no later than the next business day after the prescribed timeframe for correction and returned to the Bureau of Land Management office at the address shown above.

Section 109(d)(1) of the Federal Oil and Gas Royalty Management Act of 1982, as implemented by the applicable provisions of the operating regulations at 43 CFR 3163.2(f)(1), provides that any person who "knowingly or willfully" prepares, maintains, or submits false, inaccurate, or misleading reports, notices, affidavits, records, data, or other written information required by this part shall be liable for a civil penalty per violation for each day such violation continues.

REVIEW AND APPEAL RIGHTS

A person contesting an Order of the Authorized Officer or violation must request a State Director Review of the Written Order or Incident of Noncompliance. This request must be filed within 20 business days of receipt of the Written Order with the appropriate State Director (see 43 CFR 3165.3). The State Director review decision may be appealed to the Interior Board of Land Appeals, 801 North Quincy Street, MS 300-QC, Arlington, Virginia 22203 (see 43 CFR 3165.4). Contact the above listed Bureau of Land Management office for further information.

Signature of Bureau of Land Management Authorized Officer CRISHA MORGAN	Digitally signed by CRISHA MORGAN Date: 2024.03.12 10:39:12 -06'00'	Date 03/12/2024	Time (24-hour Clock) 1038
---	--	--------------------	------------------------------

Remarks:

Problem: During a surface inspection on 2/26/2024, found large amounts of surface contaminants on the well pad and surrounding areas.

Corrective Action: The operator will need to submit a workplan document detailing how they plan on removing surface contaminants. The workplan will need to be submitted via email or mail by no later than 4/10/2024. Email pictures of completed work to Environmental Surface Protection Specialist Intern Jaden Johnston and contact with any questions or concerns.

Cell Phone: 575-988-1787

Desk Phone: 575-234-6252

Email: jjjohnston@blm.gov

Inspector: Jaden Johnston
Operator: FAE II Operating LLC
Well Name: TOM CLOSSON #01
Well Number: 300-25-08801
Lat: 32.4199915, -103.3013047
Date: 2/26/2024



Inspector: Jaden Johnston
Operator: FAE II Operating LLC
Well Name: TOM CLOSSON #01
Well Number: 300-25-08801
Lat: 32.4199915, -103.3013047
Date: 2/26/2024



Inspector: Jaden Johnston
Operator: FAE II Operating LLC
Well Name: TOM CLOSSON #01
Well Number: 300-25-08801
Lat: 32.4199915, -103.3013047
Date: 2/26/2024



Inspector: Jaden Johnston
Operator: FAE II Operating LLC
Well Name: TOM CLOSSON #01
Well Number: 300-25-08801
Lat: 32.4199915, -103.3013047
Date: 2/26/2024



Inspector: Jaden Johnston
Operator: FAE II Operating LLC
Well Name: TOM CLOSSON #01
Well Number: 300-25-08801
Lat: 32.4199915, -103.3013047
Date: 2/26/2024



Inspector: Jaden Johnston
Operator: FAE II Operating LLC
Well Name: TOM CLOSSON #01
Well Number: 300-25-08801
Lat: 32.4199915, -103.3013047
Date: 2/26/2024



Inspector: Jaden Johnston
Operator: FAE II Operating LLC
Well Name: TOM CLOSSON #01
Well Number: 300-25-08801
Lat: 32.4199915, -103.3013047
Date: 2/26/2024



Inspector: Jaden Johnston
Operator: FAE II Operating LLC
Well Name: TOM CLOSSON #01
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Lat: 32.4199915, -103.3013047
Date: 2/26/2024



Inspector: Jaden Johnston
Operator: FAE II Operating LLC
Well Name: TOM CLOSSON #01
Well Number: 300-25-08801
Lat: 32.4199915, -103.3013047
Date: 2/26/2024



Inspector: Jaden Johnston
Operator: FAE II Operating LLC
Well Name: TOM CLOSSON #01
Well Number: 300-25-08801
Lat: 32.4199915, -103.3013047
Date: 2/26/2024



Inspector: Jaden Johnston
Operator: FAE II Operating LLC
Well Name: TOM CLOSSON #01
Well Number: 300-25-08801
Lat: 32.4199915, -103.3013047
Date: 2/26/2024



Inspector: Jaden Johnston
Operator: FAE II Operating LLC
Well Name: TOM CLOSSON #01
Well Number: 300-25-08801
Lat: 32.4199915, -103.3013047
Date: 2/26/2024



Inspector: Jaden Johnston
Operator: FAE II Operating LLC
Well Name: TOM CLOSSON #01
Well Number: 300-25-08801
Lat: 32.4199915, -103.3013047
Date: 2/26/2024



Inspector: Jaden Johnston
Operator: FAE II Operating LLC
Well Name: TOM CLOSSON #01
Well Number: 300-25-08801
Lat: 32.4199915, -103.3013047
Date: 2/26/2024



Inspector: Jaden Johnston
Operator: FAE II Operating LLC
Well Name: TOM CLOSSON #01
Well Number: 300-25-08801
Lat: 32.4199915, -103.3013047
Date: 2/26/2024





APPENDIX C
PHOTOGRAPHIC DOCUMENTATION

APPENDIX C
PHOTOGRAPHIC DOCUMENTATION
TOM CLOSSON #1



View to W of historical surface impacts (3/20/24).



View to NW of historical surface impacts (3/20/24

c



View to NW of historical surface impacts (3/20/24).



View to W of historical surface impacts (3/20/24).



View to NW of surface impacts E of TB (3/20/24).



View to W of surface impacts E of TB (3/20/24).



View to W inside TB (3/20/24).



View to N inside TB (3/20/24).

APPENDIX C
PHOTOGRAPHIC DOCUMENTATION
TOM CLOSSON #1



View to NE of SB-1 excavation (5/7/24).



View to N of SB-2 excavation (5/7/24).



View of SB-3 sample location (5/7/24).



View of SB-4 sample location (5/7/24).



View of SB-5 sample location (5/7/24).



View of SB-6 sample location (5/7/24).



View of windmill well (12/5/24).



View of dry napkin out of hole after measuring to a depth of 105' bgs (12/5/24).



APPENDIX D
ALLSTATE ENVIRONMENTAL REMEDIATION PLAN



ALLSTATE ENVIRONMENTAL SERVICES, LLC



P.O BOX 11322
MIDLAND, TEXAS 79702
OFFICE: (432) 682-3547
FAX: (432) 682-4182

April 18, 2005

Mr. Paul Sheely - Environmental Engineer
New Mexico Oil Conservation Division
1625 N. French
Hobbs, New Mexico 88240

Ms. Kathy Haston - Petroleum Engineer Technician
Ms. Trishia C. Bad Bear - Natural Resource Specialist
Bureau of Land Management
414 West Taylor
Hobbs, New Mexico 88240

Subject: Cleanup of impacted soil at Guadalupe's Tom Closson Battery,
Section 6,T-22-s, R36e, Unit J

Dear Sir/Ma'am

Guadalupe Operating has recently been requested to devise a cleanup/closure plan for the impacted area around and inside the fence of the Tom Closson Battery in Lea County, approximately 10 miles west of Eunice, New Mexico.

Area Topography

The soil in this and surrounding sections is predominantly sandy with varied vegetation. The area immediately east of the tank battery consists of 152,500 square ft. (3.5 acres) of aged and crusty petroleum hydrocarbon impacted soil with scattered vegetation rooted in pockets of blow sand that have randomly collected across the area. 155 feet to the north and slightly upgrate of the impacted area is an active windmill providing water to livestock. Depth to groundwater is 170 ft. Inside the tank battery area immediately east and adjacent to the storage tanks is an area of more recently impacted soil. All other areas around the tank battery, including the truck unloading location on the west side, are of the aged crusty texture.

Actions Taken

On March 22, 2005 representatives of Allstate Environmental Services met with Mr Nelson Patton of Guadalupe Operating, and Ms. Trishia Bad Bear with the U.S.Bureau

An Environmental Company

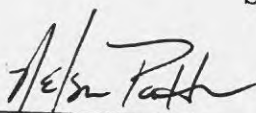
SOLIDIFICATION, BIOREMEDIATION, LAND FARMING, SOIL SHREDDING

of Land Management at the Tom Closson Battery to perform initial sampling of the area in the tank battery fence and the apparently impacted soil around the battery's fencing. Samples were taken from points approved by Ms. Bad Bear. The samples were collected in plastic bags and transferred to approved 4 oz. jars, then placed on ice for transport to Environmental Labs of Texas in Odessa, Tx. for analysis of total petroleum hydrocarbon (method 8015m) and chlorides. Prior to being transferred to jars the bags of soil were sampled by PID for BTEX content. The BTEX and TPH results are recorded on the accompanying site sketch at the bottom of the page.

Cleanup Plan

Based on this information, we feel that the soil inside the battery fencing and adjacent to the storage tanks on the east side (sample area #2 on the site sketch) needs remediation to a point that sampling of the bottom and sides of the excavation and all stockpiled soil indicates that New Mexico Oil Commission Division Spill and Cleanup Guidelines have been met for total petroleum hydrocarbon and BTEX. All other areas meet the guidelines at this time.

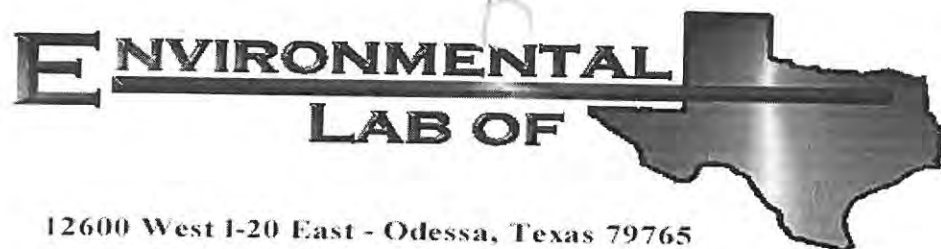
Sincerely,



Nelson Patton
Vice President Operations
Guadalupe Operating, LLC

Rob Elam
Site Supervisor
Allstate Environmental Svc.

cc: New Mexico Oil Commission Division - Hobbs, New Mexico
United States Bureau of Land Management - Hobbs, New Mexico
Guadalupe Operating, LLC - Midland, Tx.
Allstate Environmental Services, LLC - Midland, Tx.



Analytical Report

Prepared for:

Nelson Patton

Guadalupe Operating, LLC

201 W. Wall Ste. 803

Midland, TEXAS 79701

Project: Tom Closson Tank Battery

Project Number: None Given

Location: Lea County, NM

Lab Order Number: 5C23017

Report Date: 03/28/05

Guadalupe Operating, LLC
201 W. Wall Ste. 803
Midland TEXAS, 79701

Project: Tom Closson Tank Battery
Project Number: None Given
Project Manager: Nelson Patton

Fax: (432) 570-1062

Reported:
03/28/05 11:41

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
#2 Surf	5C23017-01	Soil	03/22/05 15:50	03/23/05 14:30
#2 24inch	5C23017-02	Soil	03/22/05 16:00	03/23/05 14:30
#9 6-12inch	5C23017-03	Soil	03/22/05 14:55	03/23/05 14:30
#9 Surf	5C23017-04	Soil	03/22/05 14:50	03/23/05 14:30

Guadalupe Operating, LLC
201 W. Wall Ste. 803
Midland TEXAS, 79701

Project: Tom Closson Tank Battery
Project Number: None Given
Project Manager: Nelson Patton

Fax: (432) 570-1062

Reported:
03/28/05 11:41

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
#2 Surf (5C23017-01) Soil									
Gasoline Range Organics C6-C12	1930	50.0	mg/kg dry	5	EC52312	03/24/05	03/25/05	EPA 8015M	
Diesel Range Organics >C12-C35	52100	50.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	54000	50.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		23.2 %	67.6-140		"	"	"	"	S-06
Surrogate: 1-Chlorooctadecane		29.0 %	70-130		"	"	"	"	S-06
#2 24inch (5C23017-02) Soil									
Gasoline Range Organics C6-C12	455	50.0	mg/kg dry	5	EC52312	03/24/05	03/25/05	EPA 8015M	
Diesel Range Organics >C12-C35	6950	50.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	7400	50.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		19.4 %	67.6-140		"	"	"	"	S-06
Surrogate: 1-Chlorooctadecane		25.2 %	70-130		"	"	"	"	S-06
#9 6-12inch (5C23017-03) Soil									
Gasoline Range Organics C6-C12	J [5.37]	10.0	mg/kg dry	1	EC52312	03/24/05	03/25/05	EPA 8015M	J
Diesel Range Organics >C12-C35	682	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	682	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		101 %	67.6-140		"	"	"	"	
Surrogate: 1-Chlorooctadecane		115 %	70-130		"	"	"	"	
#9 Surf (5C23017-04) Soil									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EC52312	03/24/05	03/25/05	EPA 8015M	
Diesel Range Organics >C12-C35	2210	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	2210	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		94.6 %	67.6-140		"	"	"	"	
Surrogate: 1-Chlorooctadecane		110 %	70-130		"	"	"	"	

Environmental Lab of Texas

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

Page 2 of 6

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Guadalupe Operating, LLC
201 W. Wall Ste. 803
Midland TEXAS, 79701

Project: Tom Closson Tank Battery
Project Number: None Given
Project Manager: Nelson Patton

Fax: (432) 570-1062

Reported:
03/28/05 11:41

General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
#2 Surf (5C23017-01) Soil									
Chloride	85.6	5.00	mg/kg	10	EC52801	03/25/05	03/25/05	EPA 300.0	
% Moisture	5.5	0.1	%	1	EC52408	03/23/05	03/24/05	% calculation	
#2 24inch (5C23017-02) Soil									
Chloride	56.3	5.00	mg/kg	10	EC52801	03/25/05	03/25/05	EPA 300.0	
% Moisture	4.6	0.1	%	1	EC52408	03/23/05	03/24/05	% calculation	
#9 6-12inch (5C23017-03) Soil									
% Moisture	5.9	0.1	%	1	EC52408	03/23/05	03/24/05	% calculation	
#9 Surf (5C23017-04) Soil									
Chloride	34.3	5.00	mg/kg	10	EC52801	03/25/05	03/25/05	EPA 300.0	
% Moisture	2.6	0.1	%	1	EC52408	03/23/05	03/24/05	% calculation	

Environmental Lab of Texas

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

Page 3 of 6

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Guadalupe Operating, LLC
201 W. Wall Ste. 803
Midland TEXAS, 79701

Project: Tom Closson Tank Battery
Project Number: None Given
Project Manager: Nelson Patton

Fax: (432) 570-1062

Reported:
03/28/05 11:41

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch EC52312 - Solvent Extraction (GC)**Blank (EC52312-BLK1)**

Prepared: 03/23/05 Analyzed: 03/24/05

Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet							
Diesel Range Organics >C12-C35	ND	10.0	"							
Total Hydrocarbon C6-C35	ND	10.0	"							
Surrogate: 1-Chlorooctane	36.7		mg/kg	50.0		73.4	67.6-140			
Surrogate: 1-Chlorooctadecane	39.0		"	50.0		78.0	70-130			

LCS (EC52312-BS1)

Prepared: 03/23/05 Analyzed: 03/24/05

Gasoline Range Organics C6-C12	485	10.0	mg/kg wet	500		97.0	76.3-104			
Diesel Range Organics >C12-C35	479	10.0	"	500		95.8	76.1-118			
Total Hydrocarbon C6-C35	964	10.0	"	1000		96.4	81.8-105			
Surrogate: 1-Chlorooctane	39.9		mg/kg	50.0		79.8	67.6-140			
Surrogate: 1-Chlorooctadecane	39.9		"	50.0		79.8	70-130			

Calibration Check (EC52312-CCV1)

Prepared: 03/23/05 Analyzed: 03/24/05

Gasoline Range Organics C6-C12	464		mg/kg	500		92.8	80-120			
Diesel Range Organics >C12-C35	495		"	500		99.0	80-120			
Total Hydrocarbon C6-C35	959		"	1000		95.9	80-120			
Surrogate: 1-Chlorooctane	45.9		"	50.0		91.8	67.6-140			
Surrogate: 1-Chlorooctadecane	40.0		"	50.0		80.0	70-130			

Matrix Spike (EC52312-MS1)

Source: 5C23010-01

Prepared: 03/23/05 Analyzed: 03/24/05

Gasoline Range Organics C6-C12	577	10.0	mg/kg dry	583	6.88	97.8	75.9-114			
Diesel Range Organics >C12-C35	644	10.0	"	583	29.6	105	85.3-122			
Total Hydrocarbon C6-C35	1220	10.0	"	1170	29.6	102	84.4-115			
Surrogate: 1-Chlorooctane	58.4		mg/kg	50.0		117	67.6-140			
Surrogate: 1-Chlorooctadecane	50.3		"	50.0		101	70-130			

Matrix Spike Dup (EC52312-MSD1)

Source: 5C23010-01

Prepared: 03/23/05 Analyzed: 03/24/05

Gasoline Range Organics C6-C12	548	10.0	mg/kg dry	583	6.88	92.8	75.9-114	5.16	10.4	
Diesel Range Organics >C12-C35	648	10.0	"	583	29.6	106	85.3-122	0.619	10.4	
Total Hydrocarbon C6-C35	1200	10.0	"	1170	29.6	100	84.4-115	1.65	7.6	
Surrogate: 1-Chlorooctane	45.9		mg/kg	50.0		91.8	67.6-140			
Surrogate: 1-Chlorooctadecane	48.2		"	50.0		96.4	70-130			

Environmental Lab of Texas

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Page 4 of 6

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Guadalupe Operating, LLC
201 W. Wall Ste. 803
Midland TEXAS, 79701

Project: Tom Closson Tank Battery
Project Number: None Given
Project Manager: Nelson Patton

Fax: (432) 570-1062

Reported:
03/28/05 11:41

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch EC52408 - General Preparation (Prep)									
Blank (EC52408-BLK1)				Prepared: 03/23/05 Analyzed: 03/24/05					
% Moisture	ND	0.1	%						
Duplicate (EC52408-DUP1)				Source: 5C22009-01 Prepared: 03/23/05 Analyzed: 03/24/05					
% Moisture	2.9	0.1	%		3.0		3.39	20	
Batch EC52801 - Water Extraction									
Blank (EC52801-BLK1)				Prepared & Analyzed: 03/25/05					
Chloride	ND	0.500	mg/kg						
LCS (EC52801-BS1)				Prepared & Analyzed: 03/25/05					
Chloride	10.5		mg/L	10.0		105	80-120		
Calibration Check (EC52801-CCV1)				Prepared & Analyzed: 03/25/05					
Chloride	10.5		mg/L	10.0		105	80-120		
Duplicate (EC52801-DUP1)				Source: 5C22007-02 Prepared & Analyzed: 03/25/05					
Chloride	44700	2500	mg/kg		44800		0.223	20	

Environmental Lab of Texas

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Page 5 of 6

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Guadalupe Operating, LLC
201 W. Wall Ste. 803
Midland TEXAS, 79701

Project: Tom Closson Tank Battery
Project Number: None Given
Project Manager: Nelson Patton

Fax: (432) 570-1062

Reported:
03/28/05 11:41

Notes and Definitions

S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.

J Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By: Raland K Tuttle Date: 3-28-05

Raland K. Tuttle, Lab Manager
Celey D. Keene, Lab Director, Org. Tech Director
Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director
James L. Hawkins, Chemist/Geologist
Sandra Sanchez, Lab Tech.

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If you have received this material in error, please notify us immediately at 432-563-1800.

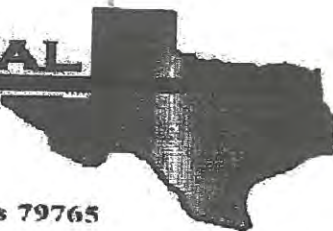
Environmental Lab of Texas

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

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12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

ENVIRONMENTAL LAB OF



12600 West I-20 East - Odessa, Texas 79765

Rob / Joel / Hamp

Analytical Report

Prepared for:

Nelson Patton

Guadalupe Operating, LLC

201 W. Wall Ste. 803

Midland, TEXAS 79701

Project: Tom Closson Tank Battery

Project Number: None Given

Location: Lea County, NM

Lab Order Number: 5C23017

Report Date: 03/28/05

Guadalupe Operating, LLC 201 W. Wall Ste. 803 Midland TEXAS, 79701	Project: Tom Closson Tank Battery Project Number: None Given Project Manager: Nelson Patton	Fax: (432) 570-1062 Reported: 03/28/05 11:41
--	---	--

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
#2 Surf	5C23017-01	Soil	03/22/05 15:50	03/23/05 14:30
#2 24inch	5C23017-02	Soil	03/22/05 16:00	03/23/05 14:30
#9 6-12inch	5C23017-03	Soil	03/22/05 14:55	03/23/05 14:30
#9 Surf	5C23017-04	Soil	03/22/05 14:50	03/23/05 14:30

Guadalupe Operating, LLC
201 W. Wall Ste. 803
Midland TEXAS, 79701

Project: Tom Closson Tank Battery
Project Number: None Given
Project Manager: Nelson Patton

Fax: (432) 570-1062
Reported:
03/28/05 11:41

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
#2 Surf (5C23017-01) Soil									
Gasoline Range Organics C6-C12	1930	50.0	mg/kg dry	5	EC52312	03/24/05	03/25/05	EPA 8015M	
Diesel Range Organics >C12-C35	52100	50.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	54000	50.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		23.2 %	67.6-140	"	"	"	"	"	S-06
Surrogate: 1-Chlorooctadecane		29.0 %	70-130	"	"	"	"	"	S-06
#2 24inch (5C23017-02) Soil									
Gasoline Range Organics C6-C12	455 ✓	50.0	mg/kg dry	5	EC52312	03/24/05	03/25/05	EPA 8015M	
Diesel Range Organics >C12-C35	6950	50.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	7400	50.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		19.4 %	67.6-140	"	"	"	"	"	S-06
Surrogate: 1-Chlorooctadecane		25.2 %	70-130	"	"	"	"	"	S-06
#9 6-12inch (5C23017-03) Soil									
Gasoline Range Organics C6-C12	J [5.37]	10.0	mg/kg dry	1	EC52312	03/24/05	03/25/05	EPA 8015M	J
Diesel Range Organics >C12-C35	682	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	682	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		101 %	67.6-140	"	"	"	"	"	
Surrogate: 1-Chlorooctadecane		115 %	70-130	"	"	"	"	"	
#9 Surf (5C23017-04) Soil									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EC52312	03/24/05	03/25/05	EPA 8015M	
Diesel Range Organics >C12-C35	2210	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	2210	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		94.6 %	67.6-140	"	"	"	"	"	
Surrogate: 1-Chlorooctadecane		110 %	70-130	"	"	"	"	"	

Environmental Lab of Texas

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12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Guadalupe Operating, LLC
 201 W. Wall Ste. 803
 Midland TEXAS, 79701

Project: Tom Closson Tank Battery
 Project Number: None Given
 Project Manager: Nelson Patton

Fax: (432) 570-1062
 Reported:
 03/28/05 11:41

General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
#2 Surf (5C23017-01) Soil									
Chloride	85.6	↓	5.00	mg/kg	10	EC52801	03/25/05	03/25/05	EPA 300.0
% Moisture	5.5		0.1	%	1	EC52408	03/23/05	03/24/05	% calculation
#2 24inch (5C23017-02) Soil									
Chloride	56.3	↓	5.00	mg/kg	10	EC52801	03/25/05	03/25/05	EPA 300.0
% Moisture	4.6		0.1	%	1	EC52408	03/23/05	03/24/05	% calculation
#9 6-12inch (5C23017-03) Soil									
% Moisture	5.9		0.1	%	1	EC52408	03/23/05	03/24/05	% calculation
#9 Surf (5C23017-04) Soil									
Chloride	34.3		5.00	mg/kg	10	EC52801	03/25/05	03/25/05	EPA 300.0
% Moisture	2.6		0.1	%	1	EC52408	03/23/05	03/24/05	% calculation

250 is Limits
 All below Limits

Environmental Lab of Texas

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12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Guadalupe Operating, LLC
201 W. Wall Ste. 803
Midland TEXAS, 79701

Project: Tom Closson Tank Battery
Project Number: None Given
Project Manager: Nelson Patton

Fax: (432) 570-1062
Reported:
03/28/05 11:41

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EC52312 - Solvent Extraction (GC)										
Blank (EC52312-BLK1)										
					Prepared: 03/23/05 Analyzed: 03/24/05					
Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet							
Diesel Range Organics >C12-C35	ND	10.0	"							
Total Hydrocarbon C6-C35	ND	10.0	"							
Surrogate: 1-Chlorooctane	36.7		mg/kg	50.0		73.4	67.6-140			
Surrogate: 1-Chlorooctadecane	39.0		"	50.0		78.0	70-130			
LCS (EC52312-BS1)										
					Prepared: 03/23/05 Analyzed: 03/24/05					
Gasoline Range Organics C6-C12	485	10.0	mg/kg wet	500		97.0	76.3-104			
Diesel Range Organics >C12-C35	479	10.0	"	500		95.8	76.1-118			
Total Hydrocarbon C6-C35	964	10.0	"	1000		96.4	81.8-105			
Surrogate: 1-Chlorooctane	39.9		mg/kg	50.0		79.8	67.6-140			
Surrogate: 1-Chlorooctadecane	39.9		"	50.0		79.8	70-130			
Calibration Check (EC52312-CCV1)										
					Prepared: 03/23/05 Analyzed: 03/24/05					
Gasoline Range Organics C6-C12	464		mg/kg	500		92.8	80-120			
Diesel Range Organics >C12-C35	495		"	500		99.0	80-120			
Total Hydrocarbon C6-C35	959		"	1000		95.9	80-120			
Surrogate: 1-Chlorooctane	45.9		"	50.0		91.8	67.6-140			
Surrogate: 1-Chlorooctadecane	40.0		"	50.0		80.0	70-130			
Matrix Spike (EC52312-MS1)										
			Source: 5C23010-01		Prepared: 03/23/05 Analyzed: 03/24/05					
Gasoline Range Organics C6-C12	577	10.0	mg/kg dry	583	6.88	97.8	75.9-114			
Diesel Range Organics >C12-C35	644	10.0	"	583	29.6	105	85.3-122			
Total Hydrocarbon C6-C35	1220	10.0	"	1170	29.6	102	84.4-115			
Surrogate: 1-Chlorooctane	58.4		mg/kg	50.0		117	67.6-140			
Surrogate: 1-Chlorooctadecane	50.3		"	50.0		101	70-130			
Matrix Spike Dup (EC52312-MSD1)										
			Source: 5C23010-01		Prepared: 03/23/05 Analyzed: 03/24/05					
Gasoline Range Organics C6-C12	548	10.0	mg/kg dry	583	6.88	92.8	75.9-114	5.16	10.4	
Diesel Range Organics >C12-C35	648	10.0	"	583	29.6	106	85.3-122	0.619	10.4	
Total Hydrocarbon C6-C35	1200	10.0	"	1170	29.6	100	84.4-115	1.65	7.6	
Surrogate: 1-Chlorooctane	45.9		mg/kg	50.0		91.8	67.6-140			
Surrogate: 1-Chlorooctadecane	48.2		"	50.0		96.4	70-130			

Environmental Lab of Texas

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12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Guadalupe Operating, LLC
201 W. Wall Ste. 803
Midland TEXAS, 79701Project: Tom Closson Tank Battery
Project Number: None Given
Project Manager: Nelson Patton

Fax: (432) 570-1062

Reported:
03/28/05 11:41**General Chemistry Parameters by EPA / Standard Methods - Quality Control**
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EC52408 - General Preparation (Prep)										
Blank (EC52408-BLK1)										
					Prepared: 03/23/05 Analyzed: 03/24/05					
% Moisture	ND	0.1	%							
Duplicate (EC52408-DUP1)										
					Source: 5C22009-01 Prepared: 03/23/05 Analyzed: 03/24/05					
% Moisture	2.9	0.1	%		3.0			3.39	20	
Batch EC52801 - Water Extraction										
Blank (EC52801-BLK1)										
					Prepared & Analyzed: 03/25/05					
Chloride	ND	0.500	mg/kg							
LCS (EC52801-BS1)										
					Prepared & Analyzed: 03/25/05					
Chloride	10.5		mg/L	10.0		105	80-120			
Calibration Check (EC52801-CCV1)										
					Prepared & Analyzed: 03/25/05					
Chloride	10.5		mg/L	10.0		105	80-120			
Duplicate (EC52801-DUP1)										
					Source: 5C22007-02 Prepared & Analyzed: 03/25/05					
Chloride	44700	2500	mg/kg		44800			0.223	20	

Environmental Lab of Texas

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12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Guadalupe Operating, LLC 201 W. Wall Ste. 803 Midland TEXAS, 79701	Project: Tom Closson Tank Battery Project Number: None Given Project Manager: Nelson Patton	Fax: (432) 570-1062 Reported: 03/28/05 11:41
--	---	--

Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By: Raland K. Tuttle Date: 3-28-05

Raland K. Tuttle, Lab Manager
Celey D. Keene, Lab Director, Org. Tech Director
Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director
James L. Hawkins, Chemist/Geologist
Sandra Sanchez, Lab Tech.

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12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Environmental Lab of Texas Variance / Corrective Action Report – Sample Log-In

Client: Guadalupe DP
 Date/Time: 3/23/05 2:45
 Order #: 5023017
 Initials: CK

Sample Receipt Checklist

	Yes	No	05 C
Temperature of container/cooler?	<input checked="" type="checkbox"/>	No	
Shipping container/cooler in good condition?	<input checked="" type="checkbox"/>	No	
Custody Seals intact on shipping container/cooler?	<input checked="" type="checkbox"/>	No	Not present
Custody Seals intact on sample bottles?	<input checked="" type="checkbox"/>	No	Not present
Chain of custody present?	<input checked="" type="checkbox"/>	No	
Sample Instructions complete on Chain of Custody?	<input checked="" type="checkbox"/>	No	
Chain of Custody signed when relinquished and received?	<input checked="" type="checkbox"/>	No	
Chain of custody agrees with sample label(s)	<input checked="" type="checkbox"/>	No	
Container labels legible and intact?	<input checked="" type="checkbox"/>	No	
Sample Matrix and properties same as on chain of custody?	<input checked="" type="checkbox"/>	No	
Samples in proper container/bottle?	<input checked="" type="checkbox"/>	No	
Samples properly preserved?	<input checked="" type="checkbox"/>	No	
Sample bottles intact?	<input checked="" type="checkbox"/>	No	
Preservations documented on Chain of Custody?	<input checked="" type="checkbox"/>	No	
Containers documented on Chain of Custody?	<input checked="" type="checkbox"/>	No	
Sufficient sample amount for indicated test?	<input checked="" type="checkbox"/>	No	
All samples received within sufficient hold time?	<input checked="" type="checkbox"/>	No	
VOC samples have zero headspace?	<input checked="" type="checkbox"/>	No	Not Applicable

Other observations:

Variance Documentation:

Contact Person: -

Date/Time:

Contacted by:

Regarding:

Corrective Action Taken:

12800 West I-20 East
Odessa, Texas 79769

Fax: 916-583-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Company Name Guadalupe Operating, LLC

Company Address: 201 W. Wall ste 803

City/State/Zip: Midland, TX 79701

Telephone No: cell 932-553-5080

Fax No: 432-570-1262

Sampler Signature: C. N. Kestey

Project Name: Tom Closson Tank Btry

Project #:

Project Loc: Lea County, N.M.

PO #

LAB # (Trib Use Only)		FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative					Matrix					TCLP:		Analyze For:										RUSH TAT (Pre-Schedule)	Standard TAT				
						Ice	HNO ₃	HCl	NaOH	H ₂ SO ₄	None	Other (Specify)	Water	Sediment	Soil	Other (Specify)	TOTAL:																
01	#2 Surf	3-22-05	3:50pm	1													TPH: 418.1	1005	1006	Cellulose (Ca, Mg, Na, K)	Arizans (CO ₂ , CO ₃ , HCO ₃)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	STEX 60219/5030	PCI	N.O.B.M.	Total Gamma				
02	#2 24"	3-22-05	4:00pm	1																													
03	#9 6-12"	3-22-05	2:55pm	1																													
04	#9 Surf	3-22-05	2:50pm	1																													

Special Instructions:
 Fax results to Nelson Patton @ above fax number also invoice Guadalupe
 E-mail results to Trisha Bad Bear - Trisha_Badbear@nm.blm.gov. + Hank Korby - AES

Relinquished by: C. N. Korby Date: 3-23-05 Time: 2:30pm

Relinquished by: _____ Date: _____ Time: _____

Received by: _____ Date: _____ Time: _____

Received by ELOT: Jeanne McManus Date: 03-23-05 Time: 1430

Sample Containers Intact? (Y) N
 Temperature Upon Receipt: 0.5°C
 Laboratory Comments: 4oz glass on ice

Phone: 915-563-1800
Fax: 915-563-1713

Project Manager: Nelson Patton
Company Name Guadalupe Operating, LLC
Company Address: 201 W. Wall Ste 803
City/State/Zip: Midland, TX 79701
Telephone No: cell 432-553-5080 Fax No: 432-570-1062
ampler Signature: C. H. Kenley

Sample Containers Intact?	(Y)	N
Temperature Upon Receipt:	0.5°C	
Laboratory Comments:		

4oz glass on ice

Environmental Lab of Texas

Variance / Corrective Action Report - Sample Log-In

Client: Guadalupe DPDate/Time: 3/23/05 2:45Order #: 5023017Initials: CK

Sample Receipt Checklist

	Yes	No	0.5	C
Temperature of container/cooler?	<input checked="" type="checkbox"/>	No		
Shipping container/cooler in good condition?	<input checked="" type="checkbox"/>	No	<u>Not present</u>	
Custody Seals intact on shipping container/cooler?	<input checked="" type="checkbox"/>	No	<u>Not present</u>	
Custody Seals intact on sample bottles?	<input checked="" type="checkbox"/>	No		
Chain of custody present?	<input checked="" type="checkbox"/>	No		
Sample Instructions complete on Chain of Custody?	<input checked="" type="checkbox"/>	No		
Chain of Custody signed when relinquished and received?	<input checked="" type="checkbox"/>	No		
Chain of custody agrees with sample label(s)	<input checked="" type="checkbox"/>	No		
Container labels legible and intact?	<input checked="" type="checkbox"/>	No		
Sample Matrix and properties same as on chain of custody?	<input checked="" type="checkbox"/>	No		
Samples in proper container/bottle?	<input checked="" type="checkbox"/>	No		
Samples properly preserved?	<input checked="" type="checkbox"/>	No		
Sample bottles intact?	<input checked="" type="checkbox"/>	No		
Preservations documented on Chain of Custody?	<input checked="" type="checkbox"/>	No		
Containers documented on Chain of Custody?	<input checked="" type="checkbox"/>	No		
Sufficient sample amount for indicated test?	<input checked="" type="checkbox"/>	No		
All samples received within sufficient hold time?	<input checked="" type="checkbox"/>	No		
VOC samples have zero headspace?	<input checked="" type="checkbox"/>	No	Not Applicable	

Other observations:

Contact Person: _____ Variance Documentation: _____
 Date/Time: _____ Contacted by: _____
 Regarding: _____

Corrective Action Taken:

**ENVIRONMENTAL
LAB OF****Invoice**

DATE	INVOICE NO.
3/31/2005	21915

BILL TO

GUADALUPE OPERATING, LLC
NELSON PATTON
201 W. WALL, STE. 803
MIDLAND, TX 79701

Environmental Lab of Texas

12600 West I-20 East
Odessa, Texas 79765

Phone # 432-563-1800

Fax # 432-563-1713

P.O. NO.	TERMS	DUE DATE	PROJECT
	Net 30	4/30/2005	TOM CLOSSON TB

ITEM	DESCRIPTION	QTY	RATE	AMOUNT
8015M (Soil/Solid)	ELT#5C23017-01 THRU 04			
	SW846-8015M GRO/DRO (Soil/Solid % Solids included)	4	60.00	240.00
CL 1	CHLORIDES IN SOIL	4	20.00	80.00
We appreciate your business.		Total		\$320.00

12/15/05

December 5, 2005

Colin Sheeley

Mr. Larry Johnson
Mr. Paul Sheeley – Environmental Engineer
New Mexico Oil Conservation Division
1625 N. French
Hobbs, New Mexico 88240

- 12/12/05 -
Monday -

Emsie

2-3-calls

TO

Subject: Cleanup of impacted soil at Guadalupe's Tom Closson Battery,
Section 6, T-22-s, R36e, Unit J - Revision of Plan Submitted June 20,
2005

Dear Paul,

In your letter of November 4, 2005 to Scott Kimbrough of Guadalupe Operating, you instructed Guadalupe to revise their cleanup/closure plan for the impacted area inside the fence as well as the playa (3.5 acres) to the east of the Tom Closson Battery in Lea County, approximately 10 miles west of Eunice, New Mexico. The revision includes the 11 listed items (the first 9 to be addressed in this mailing) in the letter.

Allstate Environmental Services has been contracted by Guadalupe to forward this plan to you and carry out the task of remediation of the subject site. Items 1 thru 9 will be listed below and explained:

- 1) Notifications at the prescribed email addresses will be forwarded to you and Mr. Larry Johnson at least 48 hours prior to any sampling, backfilling and/or construction activities and shall be documented in the closure report with the event, time, date and OCD representative's name.
- 2) Comparable to #1.
- 3) There have been no spills of 5 bbls. or more since January 1, 2003 at the subject site.
- 4) A. Analytical results and data collected from soil sampling November 30 are found in attachment I, are in tabular form and include a sketch of the site. Also in attachment I is a copy of a water sample taken from a hydrant at the discharge connection of the windmill 150 feet north of the playa. Lab analysis results for all lab samples taken at this site make up the contents of attachment III. B. On July 26, 2005 hand borings with a 3" auger were done with Trishia Bad Bear, U.S. Bureau of Land Management, in attendance along with Nelson Patton of Guadalupe Operating and Hamp Kerby with Allstate Environmental Services. Attachment II is a site sketch with a table of sample results included from that event. The table in the lower left corner of Attachment II shows

results of hand borings from a site visit March 22, 2005 with the same representatives in attendance.

- 5) On Wednesday the 30th of November 2005, 3 boreholes were drilled, 2 in the playa and 1 in the fenced battery area. A sketch indicating the boring locations and headspace test results are included in attachment I. Notifications by email were made to Mr. Paul Sheeley, (NMOCD Dist. 1) and Mr. Larry Johnson (NMOCD Dist. 1) on Monday the 21st of November, then, followed up with a phone call to your voice mail Monday the 28th of November, 2005.
- 6) "Risk out" plan in item #7.
- 7) Prior to commencement of soil remediation, all tanks will be removed from the site and replaced by new upon completion of the site cleanup. Contaminated soils will be excavated to a depth of 5 ft. and mixed with native surrounding soils in the areas immediately south and east of the fenced battery area. Soils will be mixed and sampled in batches of 100 cubic yards of contaminated soil. All samples will be for confirmation of 5,000 ppm Total Petroleum Hydrocarbon (TPH) or less (Method 8015M) and total BTEX levels of 100 ppm (PID meter). Sampling conducted November 30 indicates little or no impact from chlorides. Upon reaching acceptable levels, an impermeable barrier of one (1) ft. of compacted clay will be placed in the bottom of the excavation, and then the mixed soil will be put back in place inside the battery area. The new tanks will be supported by fresh caliche or like material and surrounded by a berm to prevent runoff from future spills.
- 8) Information acquired from the New Mexico State Engineer's waters database indicates groundwater depth to be at 195 ft. bgs. Cleanup levels are based on this information.(attachment I)
- 9) See item 7.

Any questions or concerns may be addressed to Hamp Kerby or Rob Elam, Allstate Environmental Services at 432-528-5716 or at email address allstateenv@sbcglobal.net.

Sincerely,

Hamp Kerby – Allstate Environmental Services

Concurrence: Scott Kimbrough_____

cc: Nelson Patton/Scott Kimbrough - Guadalupe Operating

Attachment I

Table of Sampling and Site Sketch
From November 30, 2005

New Mexico Office of the State Engineer
Well Reports and Downloads

Township: 22S Range: 36E Sections: 6

NAD27 X: Y: Zone: Search Radius:

County: Basin: Number: Suffix:

Owner Name: (First) (Last) ☐ Non-Domestic ☐ Domestic
☒ All

Well / Surface Data Report

Avg Depth to Water Report

Water Column Report

Clear Form

WATERS Menu

Help

AVERAGE DEPTH OF WATER REPORT 12/06/2005

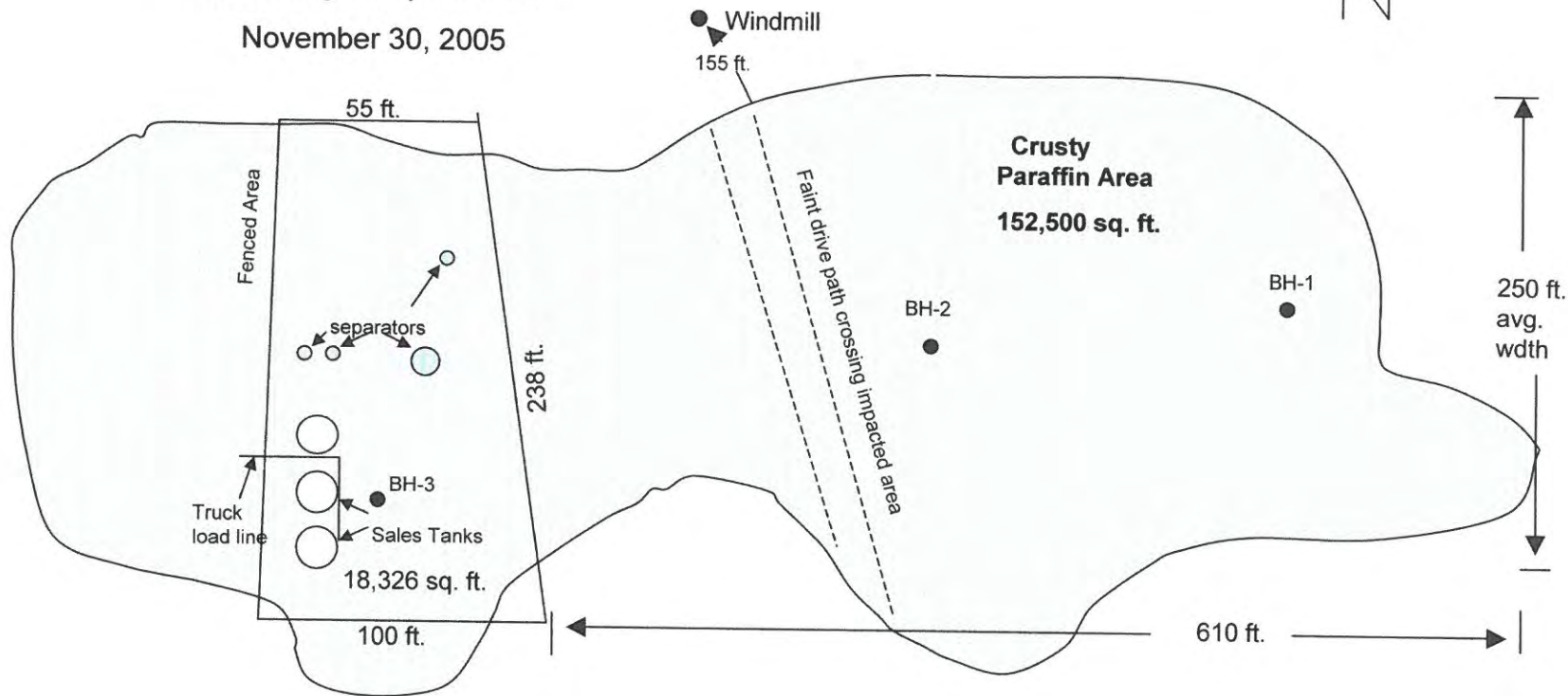
Bsn	Tws	Rng	Sec	Zone	X	Y	Wells	(Depth Water in Feet)		
								Min	Max	Avg
CP	22S	36E	06				1	195	195	195

Record Count: 1

Guadalupe Operating Site Sketch Tom Closson T/B

Indicating Sample Points

November 30, 2005



Sample points marked by ●

Depth to groundwater 170 ft. per Paul Sheeley,
NMOCD, Hobbs, N.M.

AES	Date: 11-30-05	
	Company: Guadalupe Operating Co., Inc. Lease Name: Tom Closson Btry.	
Location (GPS/qtrs.): UL-J Sec. 6 t22e r36e Lea County, New Mexico		

Attachment I

Guadalupe Tom Closson Btry

Sample Results

Samples Taken 11/30/2005 with Drilling Rig

		Bkgd CI 129 ppm		GPS	Comments
Sample Point	Depth	PID(ppm)	Chlorides (ppm)		
BH-1	5'	54.5	232	N32°25' 09.0" W103°18'02.1"	
BH-2	5'	64.1	306	N32°25' 09.5" W103°18'04.8"	
BH-2	10'	40.5	315		
BH-2	15'	20.2	306		
BH-3	5'	801	224	N32°25' 10.3" W103°18'09.1"	
	10'	743	144		
	15'	760			
	20'	1218			
	25'	1202			
	30'	1206			
	35'	1072			
	40'	1209			
	45'	1279			
	50'	962			
	55'	1242			
	60'	1206			
	65'	11930			
	70'	1372			
	75'	1217			
	80'	747			
↓	91'	40.6	118		TPH (418.1) = 67 ppm

Lab Analysis Results for BH-3@91'

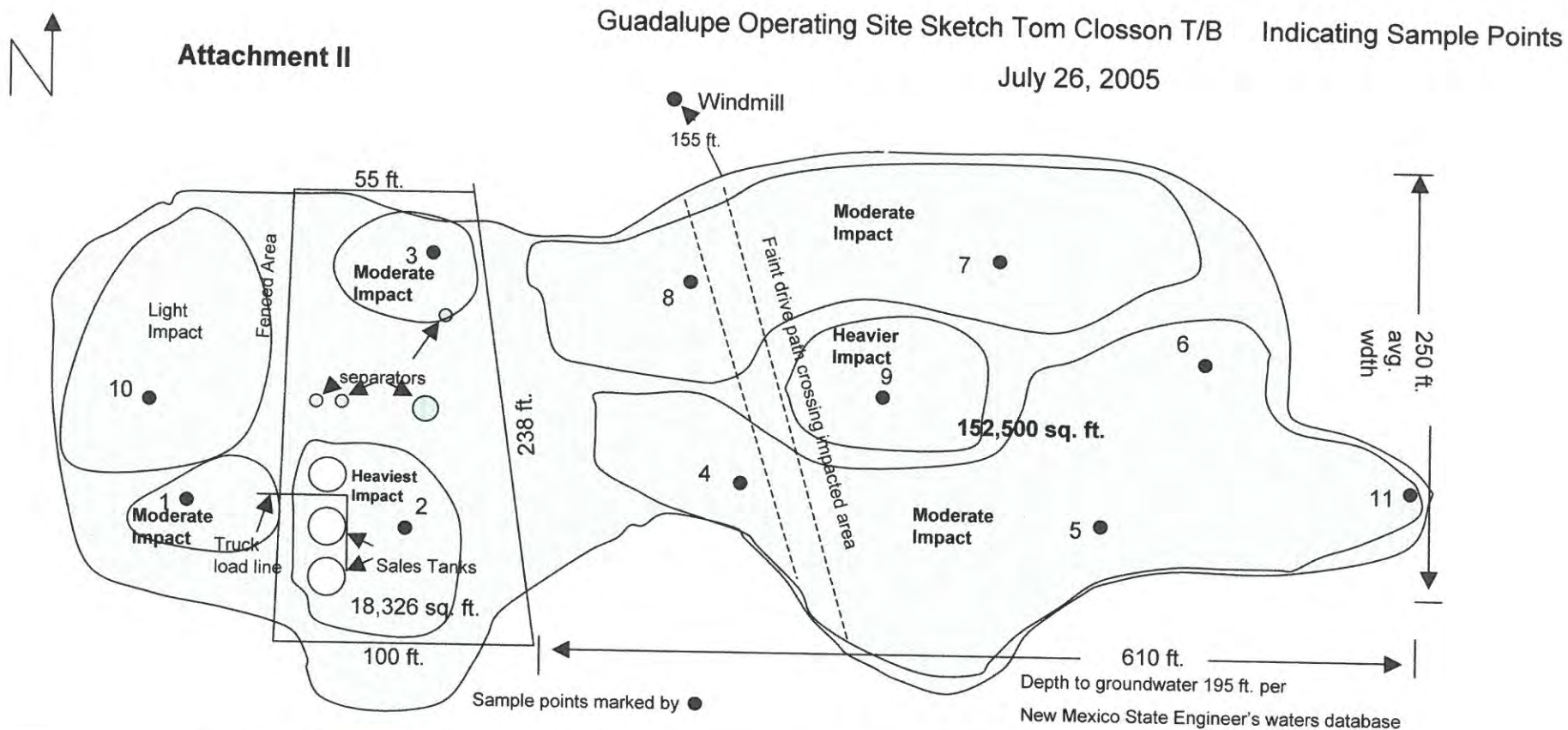
BH-3	91'			N32°25' 10.3" W103°18'09.1"	
------	-----	--	--	-----------------------------	--

Background Field Test for Chlorides

Bkgd	Surface		129	N32°25'08.1" W103°18'3.5"	
------	---------	--	-----	---------------------------	--

Attachment II

Table of Sampling and Site Sketch
from July 26, 2005



March 22 TPH
Samples:
Pnt. #2 24"
7400 ppm
Pnt #9 6-12"
682 ppm
Pnt #9 surf
2210 ppm

sample pt.	tph ppm	chlorides ppm	btex ppm	sample pt.	tph ppm	chlorides ppm	btex ppm
1 surf	11,000	638		6 6-12"	15100	21.3	
1 6-12"	8460	63.8		7 surf	1270	21.3	
1 24"	5130	191		7 6-12"	3980	21.3	
2 surf	26900	85.1		8 surf	6060	21.3	
2 6-12"	20200	21.3		8 6-12"	872	21.3	
2 24"	3050	21.3		9a surf	4830	21.3	
3 surf	12400	734		9a 6-12"	29600	21.3	
4 surf	5550	21.3		10 surf	1090	21.3	nd
4 6-12"	1630	21.3		10 6-12"	808	21.3	nd
5 surf	1480	106		10 18"	644	21.3	nd
5 6-12"	288	21.3		11 surf	4740	21.3	nd
6 surf	2760	21.3		11 6-12"	1110	21.3	nd

AES

Date:
July 26, 2005



Company: Guadalupe
Operating Co., Inc.

Lease Name: Tom Closson
Btry.

32°25'10.3"N – 103°18'09.1"W



APPENDIX E

LABORATORY REPORT AND CHAIN OF CUSTODY DOCUMENTATION



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 5/20/2024 1:48:13 PM Revision 1

JOB DESCRIPTION

Tom Closson #1
Lea Co., NM

JOB NUMBER

880-43226-1

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



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

Generated
5/20/2024 1:48:13 PM
Revision 1

Client: Crain Environmental
Project/Site: Tom Closson #1

Laboratory Job ID: 880-43226-1
SDG: Lea Co., NM

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Definitions/Glossary

Client: Crain Environmental
Project/Site: Tom Closson #1

Job ID: 880-43226-1
SDG: Lea Co., NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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

HPLC/IC

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

Case Narrative

Client: Crain Environmental
Project: Tom Closson #1

Job ID: 880-43226-1

Job ID: 880-43226-1

Eurofins Midland

Job Narrative 880-43226-1

REVISION

The report being provided is a revision of the original report sent on 5/15/2024. The report (revision 1) is being revised due to Per client email, requesting TPH be added to additional samples.

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

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

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

Receipt

The samples were received on 5/8/2024 10:57 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 1.5°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SB-1 (1') (880-43226-1), SB-1 (2') (880-43226-2), SB-1 (3') (880-43226-3), SB-1 (4.1') (880-43226-4), SB-2 (1') (880-43226-5), SB-2 (2') (880-43226-6), SB-2 (3') (880-43226-7), SB-2 (4.1') (880-43226-8), SB-3 (1') (880-43226-9), SB-3 (2') (880-43226-10), SB-3 (3') (880-43226-11), SB-3 (4.1') (880-43226-12), SB-4 (1') (880-43226-13), SB-4 (2') (880-43226-14), SB-4 (3') (880-43226-15), SB-4 (4.1') (880-43226-16), SB-4 (9') (880-43226-17), SB-5 (1') (880-43226-18), SB-5 (2') (880-43226-19), SB-5 (3') (880-43226-20), SB-5 (4.1') (880-43226-21), SB-6 (1') (880-43226-22), SB-6 (2') (880-43226-23), SB-6 (3') (880-43226-24), SB-6 (4.1') (880-43226-25), SB-6 (6.5') (880-43226-26) and SB-6 (9') (880-43226-27).

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-80259 and analytical batch 880-80207 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: SB-3 (1') (880-43226-9). Evidence of matrix interference due to high target analytes is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: SB-1 (3') (880-43226-3), SB-2 (1') (880-43226-5), SB-2 (3') (880-43226-7) and SB-3 (3') (880-43226-11). Evidence of matrix interference due to high target analytes is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-80369 and analytical batch 880-80320 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8021B: The following samples were diluted due to the nature of the sample matrix: SB-1 (3') (880-43226-3), SB-2 (1') (880-43226-5), SB-2 (3') (880-43226-7), SB-3 (1') (880-43226-9) and SB-3 (3') (880-43226-11). Elevated reporting limits (RLs) are provided.

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: Surrogate recovery for the following sample was outside control limits: SB-1 (1') (880-43226-1). Evidence of matrix interference due to high target analytes is present; therefore, re-extraction and/or re-analysis was not performed.

Eurofins Midland

Case Narrative

Client: Crain Environmental
Project: Tom Closson #1

Job ID: 880-43226-1

Job ID: 880-43226-1 (Continued)

Eurofins Midland

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: SB-3 (3') (880-43226-11) and SB-6 (1') (880-43226-22). Evidence of matrix interference due to high target analytes is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: SB-2 (1') (880-43226-5). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: SB-6 (6.5') (880-43226-26) and SB-6 (9') (880-43226-27). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-80845 recovered below the lower 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 880-80845/31).

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

HPLC/IC

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

Eurofins Midland

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Client Sample Results

Client: Crain Environmental
Project/Site: Tom Closson #1

Job ID: 880-43226-1
SDG: Lea Co., NM

Client Sample ID: SB-1 (1')

Lab Sample ID: 880-43226-1

Date Collected: 05/07/24 08:40

Matrix: Solid

Date Received: 05/08/24 10:57

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0996	U	0.0996		mg/Kg		05/08/24 14:21	05/08/24 18:13	50
Toluene	<0.0996	U	0.0996		mg/Kg		05/08/24 14:21	05/08/24 18:13	50
Ethylbenzene	<0.0996	U	0.0996		mg/Kg		05/08/24 14:21	05/08/24 18:13	50
m-Xylene & p-Xylene	<0.199	U	0.199		mg/Kg		05/08/24 14:21	05/08/24 18:13	50
o-Xylene	0.189		0.0996		mg/Kg		05/08/24 14:21	05/08/24 18:13	50
Xylenes, Total	<0.199	U	0.199		mg/Kg		05/08/24 14:21	05/08/24 18:13	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	05/08/24 14:21	05/08/24 18:13	50
1,4-Difluorobenzene (Surr)	93		70 - 130	05/08/24 14:21	05/08/24 18:13	50

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.199	U	0.199		mg/Kg			05/08/24 18:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	9720		500		mg/Kg			05/12/24 10:04	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	<500	U	500		mg/Kg		05/08/24 16:20	05/12/24 10:04	10
Diesel Range Organics (Over C10-C28)	8120		500		mg/Kg		05/08/24 16:20	05/12/24 10:04	10
Oil Range Organics (Over C28-C36)	1600		500		mg/Kg		05/08/24 16:20	05/12/24 10:04	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	153	S1+	70 - 130	05/08/24 16:20	05/12/24 10:04	10
o-Terphenyl	176	S1+	70 - 130	05/08/24 16:20	05/12/24 10:04	10

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	534		5.03		mg/Kg			05/09/24 02:51	1

Client Sample ID: SB-1 (3')

Lab Sample ID: 880-43226-3

Date Collected: 05/07/24 08:55

Matrix: Solid

Date Received: 05/08/24 10:57

Sample Depth: 3'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0401	U *+ *1	0.0401		mg/Kg		05/09/24 14:16	05/10/24 04:59	20
Toluene	0.0683	*+ *1	0.0401		mg/Kg		05/09/24 14:16	05/10/24 04:59	20
Ethylbenzene	0.132	*+ *1	0.0401		mg/Kg		05/09/24 14:16	05/10/24 04:59	20
m-Xylene & p-Xylene	0.111	*+ *1	0.0802		mg/Kg		05/09/24 14:16	05/10/24 04:59	20
o-Xylene	0.338	*+ *1	0.0401		mg/Kg		05/09/24 14:16	05/10/24 04:59	20
Xylenes, Total	0.449	*+ *1	0.0802		mg/Kg		05/09/24 14:16	05/10/24 04:59	20

Eurofins Midland

Client Sample Results

Client: Crain Environmental
Project/Site: Tom Closson #1

Job ID: 880-43226-1
SDG: Lea Co., NM

Client Sample ID: SB-1 (3')

Lab Sample ID: 880-43226-3

Date Collected: 05/07/24 08:55

Matrix: Solid

Date Received: 05/08/24 10:57

Sample Depth: 3'

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	199	S1+	70 - 130	05/09/24 14:16	05/10/24 04:59	20
1,4-Difluorobenzene (Surr)	128		70 - 130	05/09/24 14:16	05/10/24 04:59	20

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.649		0.0802		mg/Kg			05/10/24 04:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	2030		50.0		mg/Kg			05/11/24 03:47	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	60.5		50.0		mg/Kg		05/08/24 16:52	05/11/24 03:47	1
Diesel Range Organics (Over C10-C28)	1970		50.0		mg/Kg		05/08/24 16:52	05/11/24 03:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/08/24 16:52	05/11/24 03:47	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
1-Chlorooctane	116		70 - 130	05/08/24 16:52	05/11/24 03:47	1			
o-Terphenyl	106		70 - 130	05/08/24 16:52	05/11/24 03:47	1			

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	289		4.98		mg/Kg			05/09/24 02:56	1

Client Sample ID: SB-1 (4.1')

Lab Sample ID: 880-43226-4

Date Collected: 05/07/24 09:04

Matrix: Solid

Date Received: 05/08/24 10:57

Sample Depth: 4.1'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			05/14/24 21:14	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	<49.6	U	49.6		mg/Kg		05/08/24 13:27	05/14/24 21:14	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		05/08/24 13:27	05/14/24 21:14	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		05/08/24 13:27	05/14/24 21:14	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
1-Chlorooctane	97		70 - 130	05/08/24 13:27	05/14/24 21:14	1			
o-Terphenyl	93		70 - 130	05/08/24 13:27	05/14/24 21:14	1			

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	227		5.00		mg/Kg			05/09/24 03:02	1

Eurofins Midland

Client Sample Results

Client: Crain Environmental
Project/Site: Tom Closson #1

Job ID: 880-43226-1
SDG: Lea Co., NM

Client Sample ID: SB-2 (1')

Lab Sample ID: 880-43226-5

Date Collected: 05/07/24 09:10

Matrix: Solid

Date Received: 05/08/24 10:57

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0398	U *+ *1	0.0398		mg/Kg		05/09/24 14:16	05/10/24 05:19	20
Toluene	0.101	*+ *1	0.0398		mg/Kg		05/09/24 14:16	05/10/24 05:19	20
Ethylbenzene	1.05	*+ *1	0.0398		mg/Kg		05/09/24 14:16	05/10/24 05:19	20
m-Xylene & p-Xylene	3.83	*+ *1	0.0797		mg/Kg		05/09/24 14:16	05/10/24 05:19	20
o-Xylene	1.41	*+ *1	0.0398		mg/Kg		05/09/24 14:16	05/10/24 05:19	20
Xylenes, Total	5.24	*+ *1	0.0797		mg/Kg		05/09/24 14:16	05/10/24 05:19	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	224	S1+	70 - 130	05/09/24 14:16	05/10/24 05:19	20
1,4-Difluorobenzene (Surr)	122		70 - 130	05/09/24 14:16	05/10/24 05:19	20

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	6.39		0.0797		mg/Kg			05/10/24 05:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	7710		994		mg/Kg			05/14/24 21:31	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	<994	U	994		mg/Kg		05/08/24 13:27	05/14/24 21:31	20
Diesel Range Organics (Over C10-C28)	7710		994		mg/Kg		05/08/24 13:27	05/14/24 21:31	20
Oil Range Organics (Over C28-C36)	<994	U	994		mg/Kg		05/08/24 13:27	05/14/24 21:31	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	134	S1+	70 - 130	05/08/24 13:27	05/14/24 21:31	20
o-Terphenyl	266	S1+	70 - 130	05/08/24 13:27	05/14/24 21:31	20

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	175		4.97		mg/Kg			05/10/24 19:54	1

Client Sample ID: SB-2 (3')

Lab Sample ID: 880-43226-7

Date Collected: 05/07/24 09:20

Matrix: Solid

Date Received: 05/08/24 10:57

Sample Depth: 3'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.212	*+ *1	0.0399		mg/Kg		05/09/24 14:16	05/10/24 05:40	20
Toluene	0.0914	*+ *1	0.0399		mg/Kg		05/09/24 14:16	05/10/24 05:40	20
Ethylbenzene	0.0526	*+ *1	0.0399		mg/Kg		05/09/24 14:16	05/10/24 05:40	20
m-Xylene & p-Xylene	0.0861	*+ *1	0.0798		mg/Kg		05/09/24 14:16	05/10/24 05:40	20
o-Xylene	0.721	*+ *1	0.0399		mg/Kg		05/09/24 14:16	05/10/24 05:40	20
Xylenes, Total	0.807	*+ *1	0.0798		mg/Kg		05/09/24 14:16	05/10/24 05:40	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	140	S1+	70 - 130	05/09/24 14:16	05/10/24 05:40	20

Eurofins Midland

Client Sample Results

Client: Crain Environmental
Project/Site: Tom Closson #1

Job ID: 880-43226-1
SDG: Lea Co., NM

Client Sample ID: SB-2 (3')

Lab Sample ID: 880-43226-7

Date Collected: 05/07/24 09:20

Matrix: Solid

Date Received: 05/08/24 10:57

Sample Depth: 3'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	126		70 - 130	05/09/24 14:16	05/10/24 05:40	20

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	1.16		0.0798		mg/Kg			05/10/24 05:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<498	U	498		mg/Kg			05/14/24 21:48	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	<498	U	498		mg/Kg		05/08/24 13:27	05/14/24 21:48	10
Diesel Range Organics (Over C10-C28)	<498	U	498		mg/Kg		05/08/24 13:27	05/14/24 21:48	10
Oil Range Organics (Over C28-C36)	<498	U	498		mg/Kg		05/08/24 13:27	05/14/24 21:48	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				05/08/24 13:27	05/14/24 21:48	10
o-Terphenyl	100		70 - 130				05/08/24 13:27	05/14/24 21:48	10

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	21.8		4.99		mg/Kg			05/10/24 20:13	1

Client Sample ID: SB-2 (4.1')

Lab Sample ID: 880-43226-8

Date Collected: 05/07/24 09:25

Matrix: Solid

Date Received: 05/08/24 10:57

Sample Depth: 4.1'

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		05/08/24 14:21	05/08/24 17:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/08/24 14:21	05/08/24 17:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/08/24 14:21	05/08/24 17:46	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		05/08/24 14:21	05/08/24 17:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/08/24 14:21	05/08/24 17:46	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		05/08/24 14:21	05/08/24 17:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	05/08/24 14:21	05/08/24 17:46	1
1,4-Difluorobenzene (Surr)	103		70 - 130	05/08/24 14:21	05/08/24 17:46	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			05/08/24 17:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/14/24 20:07	1

Eurofins Midland

Client Sample Results

Client: Crain Environmental
Project/Site: Tom Closson #1

Job ID: 880-43226-1
SDG: Lea Co., NM

Client Sample ID: SB-2 (4.1')

Date Collected: 05/07/24 09:25

Date Received: 05/08/24 10:57

Sample Depth: 4.1'

Lab Sample ID: 880-43226-8

Matrix: Solid

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	<49.9	U	49.9		mg/Kg		05/08/24 09:07	05/14/24 20:07	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/08/24 09:07	05/14/24 20:07	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/08/24 09:07	05/14/24 20:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130				05/08/24 09:07	05/14/24 20:07	1
o-Terphenyl	85		70 - 130				05/08/24 09:07	05/14/24 20:07	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	493		4.98		mg/Kg			05/10/24 20:19	1

Client Sample ID: SB-3 (1')

Date Collected: 05/07/24 09:35

Date Received: 05/08/24 10:57

Sample Depth: 1'

Lab Sample ID: 880-43226-9

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0399	U *+ *1	0.0399		mg/Kg		05/09/24 14:16	05/10/24 06:00	20
Toluene	0.180	*+ *1	0.0399		mg/Kg		05/09/24 14:16	05/10/24 06:00	20
Ethylbenzene	1.33	*+ *1	0.0399		mg/Kg		05/09/24 14:16	05/10/24 06:00	20
m-Xylene & p-Xylene	5.12	*+ *1	0.0798		mg/Kg		05/09/24 14:16	05/10/24 06:00	20
o-Xylene	1.44	*+ *1	0.0399		mg/Kg		05/09/24 14:16	05/10/24 06:00	20
Xylenes, Total	6.56	*+ *1	0.0798		mg/Kg		05/09/24 14:16	05/10/24 06:00	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	191	S1+	70 - 130				05/09/24 14:16	05/10/24 06:00	20
1,4-Difluorobenzene (Surr)	123		70 - 130				05/09/24 14:16	05/10/24 06:00	20

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	8.07		0.0798		mg/Kg			05/10/24 06:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1850		996		mg/Kg			05/14/24 20:23	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	<996	U	996		mg/Kg		05/08/24 09:07	05/14/24 20:23	20
Diesel Range Organics (Over C10-C28)	1850		996		mg/Kg		05/08/24 09:07	05/14/24 20:23	20
Oil Range Organics (Over C28-C36)	<996	U	996		mg/Kg		05/08/24 09:07	05/14/24 20:23	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130				05/08/24 09:07	05/14/24 20:23	20
o-Terphenyl	128		70 - 130				05/08/24 09:07	05/14/24 20:23	20

Eurofins Midland

Client Sample Results

Client: Crain Environmental
Project/Site: Tom Closson #1

Job ID: 880-43226-1
SDG: Lea Co., NM

Client Sample ID: SB-3 (1')

Lab Sample ID: 880-43226-9

Date Collected: 05/07/24 09:35

Matrix: Solid

Date Received: 05/08/24 10:57

Sample Depth: 1'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	30.4		5.02		mg/Kg			05/10/24 20:25	1

Client Sample ID: SB-3 (3')

Lab Sample ID: 880-43226-11

Date Collected: 05/07/24 09:45

Matrix: Solid

Date Received: 05/08/24 10:57

Sample Depth: 3'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0398	U *+ *1	0.0398		mg/Kg		05/09/24 14:16	05/10/24 06:21	20
Toluene	0.275	*+ *1	0.0398		mg/Kg		05/09/24 14:16	05/10/24 06:21	20
Ethylbenzene	0.681	*+ *1	0.0398		mg/Kg		05/09/24 14:16	05/10/24 06:21	20
m-Xylene & p-Xylene	4.18	*+ *1	0.0795		mg/Kg		05/09/24 14:16	05/10/24 06:21	20
o-Xylene	1.05	*+ *1	0.0398		mg/Kg		05/09/24 14:16	05/10/24 06:21	20
Xylenes, Total	5.23	*+ *1	0.0795		mg/Kg		05/09/24 14:16	05/10/24 06:21	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	246	S1+	70 - 130				05/09/24 14:16	05/10/24 06:21	20
1,4-Difluorobenzene (Surr)	112		70 - 130				05/09/24 14:16	05/10/24 06:21	20

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	6.19		0.0795		mg/Kg			05/10/24 06:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	2950		999		mg/Kg			05/14/24 20:40	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	<999	U	999		mg/Kg		05/08/24 09:07	05/14/24 20:40	20
Diesel Range Organics (Over C10-C28)	2950		999		mg/Kg		05/08/24 09:07	05/14/24 20:40	20
Oil Range Organics (Over C28-C36)	<999	U	999		mg/Kg		05/08/24 09:07	05/14/24 20:40	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130				05/08/24 09:07	05/14/24 20:40	20
o-Terphenyl	137	S1+	70 - 130				05/08/24 09:07	05/14/24 20:40	20

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	24.1		4.98		mg/Kg			05/10/24 20:32	1

Eurofins Midland

Client Sample Results

Client: Crain Environmental
Project/Site: Tom Closson #1

Job ID: 880-43226-1
SDG: Lea Co., NM

Client Sample ID: SB-3 (4.1')

Lab Sample ID: 880-43226-12

Date Collected: 05/07/24 09:50

Matrix: Solid

Date Received: 05/08/24 10:57

Sample Depth: 4.1'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/14/24 20:57	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	<49.9	U	49.9		mg/Kg		05/08/24 09:07	05/14/24 20:57	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/08/24 09:07	05/14/24 20:57	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/08/24 09:07	05/14/24 20:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				05/08/24 09:07	05/14/24 20:57	1
o-Terphenyl	90		70 - 130				05/08/24 09:07	05/14/24 20:57	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14.0		5.02		mg/Kg			05/10/24 20:51	1

Client Sample ID: SB-4 (1')

Lab Sample ID: 880-43226-13

Date Collected: 05/07/24 10:40

Matrix: Solid

Date Received: 05/08/24 10:57

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	4040		990		mg/Kg			05/14/24 21:14	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	<990	U	990		mg/Kg		05/08/24 09:07	05/14/24 21:14	20
Diesel Range Organics (Over C10-C28)	4040		990		mg/Kg		05/08/24 09:07	05/14/24 21:14	20
Oil Range Organics (Over C28-C36)	<990	U	990		mg/Kg		05/08/24 09:07	05/14/24 21:14	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				05/08/24 09:07	05/14/24 21:14	20
o-Terphenyl	109		70 - 130				05/08/24 09:07	05/14/24 21:14	20

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.97	U	4.97		mg/Kg			05/10/24 20:57	1

Client Sample ID: SB-4 (4.1')

Lab Sample ID: 880-43226-16

Date Collected: 05/07/24 10:55

Matrix: Solid

Date Received: 05/08/24 10:57

Sample Depth: 4.1'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	5320		249		mg/Kg			05/18/24 03:49	1

Eurofins Midland

Client Sample Results

Client: Crain Environmental
Project/Site: Tom Closson #1

Job ID: 880-43226-1
SDG: Lea Co., NM

Client Sample ID: SB-4 (4.1')

Lab Sample ID: 880-43226-16

Date Collected: 05/07/24 10:55

Matrix: Solid

Date Received: 05/08/24 10:57

Sample Depth: 4.1'

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	<249	U	249		mg/Kg		05/15/24 15:11	05/18/24 03:49	5
Diesel Range Organics (Over C10-C28)	5320		249		mg/Kg		05/15/24 15:11	05/18/24 03:49	5
Oil Range Organics (Over C28-C36)	<249	U	249		mg/Kg		05/15/24 15:11	05/18/24 03:49	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	128		70 - 130				05/15/24 15:11	05/18/24 03:49	5
o-Terphenyl	121		70 - 130				05/15/24 15:11	05/18/24 03:49	5

Client Sample ID: SB-5 (1')

Lab Sample ID: 880-43226-18

Date Collected: 05/07/24 11:10

Matrix: Solid

Date Received: 05/08/24 10:57

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	3690		999		mg/Kg			05/14/24 21:31	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	<999	U	999		mg/Kg		05/08/24 09:07	05/14/24 21:31	20
Diesel Range Organics (Over C10-C28)	3690		999		mg/Kg		05/08/24 09:07	05/14/24 21:31	20
Oil Range Organics (Over C28-C36)	<999	U	999		mg/Kg		05/08/24 09:07	05/14/24 21:31	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130				05/08/24 09:07	05/14/24 21:31	20
o-Terphenyl	111		70 - 130				05/08/24 09:07	05/14/24 21:31	20

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.03	U	5.03		mg/Kg			05/10/24 21:03	1

Client Sample ID: SB-5 (4.1')

Lab Sample ID: 880-43226-21

Date Collected: 05/07/24 11:25

Matrix: Solid

Date Received: 05/08/24 10:57

Sample Depth: 4.1'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	183		49.8		mg/Kg			05/16/24 17:52	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		05/16/24 08:07	05/16/24 17:52	1
Diesel Range Organics (Over C10-C28)	183		49.8		mg/Kg		05/16/24 08:07	05/16/24 17:52	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/16/24 08:07	05/16/24 17:52	1

Eurofins Midland

Client Sample Results

Client: Crain Environmental
Project/Site: Tom Closson #1

Job ID: 880-43226-1
SDG: Lea Co., NM

Client Sample ID: SB-5 (4.1')

Date Collected: 05/07/24 11:25

Date Received: 05/08/24 10:57

Sample Depth: 4.1'

Lab Sample ID: 880-43226-21

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130	05/16/24 08:07	05/16/24 17:52	1
o-Terphenyl	116		70 - 130	05/16/24 08:07	05/16/24 17:52	1

Client Sample ID: SB-6 (1')

Date Collected: 05/07/24 10:10

Date Received: 05/08/24 10:57

Sample Depth: 1'

Lab Sample ID: 880-43226-22

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	5910		995		mg/Kg			05/14/24 21:48	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	<995	U	995		mg/Kg		05/08/24 09:07	05/14/24 21:48	20
Diesel Range Organics (Over C10-C28)	5910		995		mg/Kg		05/08/24 09:07	05/14/24 21:48	20
Oil Range Organics (Over C28-C36)	<995	U	995		mg/Kg		05/08/24 09:07	05/14/24 21:48	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130				05/08/24 09:07	05/14/24 21:48	20
o-Terphenyl	195	S1+	70 - 130				05/08/24 09:07	05/14/24 21:48	20

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.99	U	4.99		mg/Kg			05/10/24 21:09	1

Client Sample ID: SB-6 (4.1')

Date Collected: 05/07/24 10:25

Date Received: 05/08/24 10:57

Sample Depth: 4.1'

Lab Sample ID: 880-43226-25

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1880		49.7		mg/Kg			05/16/24 17:31	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		05/16/24 08:07	05/16/24 17:31	1
Diesel Range Organics (Over C10-C28)	1880		49.7		mg/Kg		05/16/24 08:07	05/16/24 17:31	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		05/16/24 08:07	05/16/24 17:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130				05/16/24 08:07	05/16/24 17:31	1
o-Terphenyl	98		70 - 130				05/16/24 08:07	05/16/24 17:31	1

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Client Sample Results

Client: Crain Environmental
Project/Site: Tom Closson #1

Job ID: 880-43226-1
SDG: Lea Co., NM

Client Sample ID: SB-6 (6.5')

Lab Sample ID: 880-43226-26

Date Collected: 05/07/24 10:28

Matrix: Solid

Date Received: 05/08/24 10:57

Sample Depth: 6.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	3710		249		mg/Kg			05/16/24 18:32	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	<249	U	249		mg/Kg		05/16/24 08:07	05/16/24 18:32	5
Diesel Range Organics (Over C10-C28)	3710		249		mg/Kg		05/16/24 08:07	05/16/24 18:32	5
Oil Range Organics (Over C28-C36)	<249	U	249		mg/Kg		05/16/24 08:07	05/16/24 18:32	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	123		70 - 130				05/16/24 08:07	05/16/24 18:32	5
o-Terphenyl	124		70 - 130				05/16/24 08:07	05/16/24 18:32	5

Client Sample ID: SB-6 (9')

Lab Sample ID: 880-43226-27

Date Collected: 05/07/24 10:32

Matrix: Solid

Date Received: 05/08/24 10:57

Sample Depth: 9'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	6740		250		mg/Kg			05/16/24 18:12	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	<250	U	250		mg/Kg		05/16/24 08:07	05/16/24 18:12	5
Diesel Range Organics (Over C10-C28)	6740		250		mg/Kg		05/16/24 08:07	05/16/24 18:12	5
Oil Range Organics (Over C28-C36)	<250	U	250		mg/Kg		05/16/24 08:07	05/16/24 18:12	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	132	S1+	70 - 130				05/16/24 08:07	05/16/24 18:12	5
o-Terphenyl	126		70 - 130				05/16/24 08:07	05/16/24 18:12	5

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Surrogate Summary

Client: Crain Environmental
Project/Site: Tom Closson #1

Job ID: 880-43226-1
SDG: Lea Co., NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-43226-1	SB-1 (1')	95	93
880-43226-3	SB-1 (3')	199 S1+	128
880-43226-5	SB-2 (1')	224 S1+	122
880-43226-7	SB-2 (3')	140 S1+	126
880-43226-8	SB-2 (4.1')	97	103
880-43226-9	SB-3 (1')	191 S1+	123
880-43226-11	SB-3 (3')	246 S1+	112
LCS 880-80259/1-A	Lab Control Sample	103	99
LCS 880-80369/1-A	Lab Control Sample	116	101
LCSD 880-80259/2-A	Lab Control Sample Dup	89	86
LCSD 880-80369/2-A	Lab Control Sample Dup	115	129
MB 880-80259/5-A	Method Blank	66 S1-	99
MB 880-80327/5-A	Method Blank	114	90
MB 880-80369/5-A	Method Blank	116	89
Surrogate Legend			
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)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-43226-1	SB-1 (1')	153 S1+	176 S1+
880-43226-3	SB-1 (3')	116	106
880-43226-4	SB-1 (4.1')	97	93
880-43226-5	SB-2 (1')	134 S1+	266 S1+
880-43226-7	SB-2 (3')	95	100
880-43226-8	SB-2 (4.1')	88	85
880-43226-9	SB-3 (1')	116	128
880-43226-11	SB-3 (3')	102	137 S1+
880-43226-12	SB-3 (4.1')	95	90
880-43226-13	SB-4 (1')	99	109
880-43226-16	SB-4 (4.1')	128	121
880-43226-18	SB-5 (1')	111	111
880-43226-21	SB-5 (4.1')	114	116
880-43226-22	SB-6 (1')	113	195 S1+
880-43226-25	SB-6 (4.1')	113	98
880-43226-26	SB-6 (6.5')	123	124
880-43226-27	SB-6 (9')	132 S1+	126
LCS 880-80222/2-A	Lab Control Sample	93	95
LCS 880-80265/2-A	Lab Control Sample	85	87
LCS 880-80281/2-A	Lab Control Sample	84	81
LCS 880-80296/2-A	Lab Control Sample	101	93
LCS 880-80820/2-A	Lab Control Sample	108	94
LCS 880-80851/2-A	Lab Control Sample	102	91
LCSD 880-80222/3-A	Lab Control Sample Dup	90	92
LCSD 880-80265/3-A	Lab Control Sample Dup	84	86

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Surrogate Summary

Client: Crain Environmental
Project/Site: Tom Closson #1

Job ID: 880-43226-1
SDG: Lea Co., NM

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1	OTPH1
		(70-130)	(70-130)
LCSD 880-80281/3-A	Lab Control Sample Dup	98	97
LCSD 880-80296/3-A	Lab Control Sample Dup	102	95
LCSD 880-80820/3-A	Lab Control Sample Dup	104	92
LCSD 880-80851/3-A	Lab Control Sample Dup	101	91
MB 880-80222/1-A	Method Blank	88	88
MB 880-80265/1-A	Method Blank	84	83
MB 880-80281/1-A	Method Blank	113	125
MB 880-80296/1-A	Method Blank	115	127
MB 880-80820/1-A	Method Blank	105	112
MB 880-80851/1-A	Method Blank	102	112
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Crain Environmental
Project/Site: Tom Closson #1

Job ID: 880-43226-1
SDG: Lea Co., NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-80259/5-A

Matrix: Solid

Analysis Batch: 80207

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 80259

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/08/24 12:03	05/08/24 13:45	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/08/24 12:03	05/08/24 13:45	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/08/24 12:03	05/08/24 13:45	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/08/24 12:03	05/08/24 13:45	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/08/24 12:03	05/08/24 13:45	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/08/24 12:03	05/08/24 13:45	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	66	S1-	70 - 130	05/08/24 12:03	05/08/24 13:45	1
1,4-Difluorobenzene (Surr)	99		70 - 130	05/08/24 12:03	05/08/24 13:45	1

Lab Sample ID: LCS 880-80259/1-A

Matrix: Solid

Analysis Batch: 80207

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 80259

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1096		mg/Kg		110	70 - 130
Toluene	0.100	0.1101		mg/Kg		110	70 - 130
Ethylbenzene	0.100	0.1064		mg/Kg		106	70 - 130
m-Xylene & p-Xylene	0.200	0.2181		mg/Kg		109	70 - 130
o-Xylene	0.100	0.1094		mg/Kg		109	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: LCSD 880-80259/2-A

Matrix: Solid

Analysis Batch: 80207

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 80259

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08839		mg/Kg		88	70 - 130	21	35
Toluene	0.100	0.08924		mg/Kg		89	70 - 130	21	35
Ethylbenzene	0.100	0.08586		mg/Kg		86	70 - 130	21	35
m-Xylene & p-Xylene	0.200	0.1765		mg/Kg		88	70 - 130	21	35
o-Xylene	0.100	0.08983		mg/Kg		90	70 - 130	20	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	89		70 - 130
1,4-Difluorobenzene (Surr)	86		70 - 130

Lab Sample ID: MB 880-80327/5-A

Matrix: Solid

Analysis Batch: 80320

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 80327

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/09/24 08:53	05/09/24 11:21	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/09/24 08:53	05/09/24 11:21	1

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QC Sample Results

Client: Crain Environmental
Project/Site: Tom Closson #1

Job ID: 880-43226-1
SDG: Lea Co., NM

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

Lab Sample ID: MB 880-80327/5-A

Matrix: Solid

Analysis Batch: 80320

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 80327

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/09/24 08:53	05/09/24 11:21	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/09/24 08:53	05/09/24 11:21	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/09/24 08:53	05/09/24 11:21	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/09/24 08:53	05/09/24 11:21	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	05/09/24 08:53	05/09/24 11:21	1
1,4-Difluorobenzene (Surr)	90		70 - 130	05/09/24 08:53	05/09/24 11:21	1

Lab Sample ID: MB 880-80369/5-A

Matrix: Solid

Analysis Batch: 80320

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 80369

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/09/24 14:16	05/09/24 22:58	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/09/24 14:16	05/09/24 22:58	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/09/24 14:16	05/09/24 22:58	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/09/24 14:16	05/09/24 22:58	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/09/24 14:16	05/09/24 22:58	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/09/24 14:16	05/09/24 22:58	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	05/09/24 14:16	05/09/24 22:58	1
1,4-Difluorobenzene (Surr)	89		70 - 130	05/09/24 14:16	05/09/24 22:58	1

Lab Sample ID: LCS 880-80369/1-A

Matrix: Solid

Analysis Batch: 80320

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 80369

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1211		mg/Kg		121	70 - 130
Toluene	0.100	0.1163		mg/Kg		116	70 - 130
Ethylbenzene	0.100	0.1130		mg/Kg		113	70 - 130
m-Xylene & p-Xylene	0.200	0.2327		mg/Kg		116	70 - 130
o-Xylene	0.100	0.1166		mg/Kg		117	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	116		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: LCSD 880-80369/2-A

Matrix: Solid

Analysis Batch: 80320

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 80369

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.2480	*+ *1	mg/Kg		248	70 - 130	69	35
Toluene	0.100	0.2524	*+ *1	mg/Kg		252	70 - 130	74	35
Ethylbenzene	0.100	0.2532	*+ *1	mg/Kg		253	70 - 130	77	35

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QC Sample Results

Client: Crain Environmental
Project/Site: Tom Closson #1

Job ID: 880-43226-1
SDG: Lea Co., NM

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

Lab Sample ID: LCSD 880-80369/2-A

Matrix: Solid

Analysis Batch: 80320

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 80369

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m-Xylene & p-Xylene	0.200	0.5027	*+ *1	mg/Kg		251	70 - 130	73	35
o-Xylene	0.100	0.2511	*+ *1	mg/Kg		251	70 - 130	73	35
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	115		70 - 130						
1,4-Difluorobenzene (Surr)	129		70 - 130						

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

Lab Sample ID: MB 880-80222/1-A

Matrix: Solid

Analysis Batch: 80690

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 80222

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/08/24 09:06	05/14/24 10:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/08/24 09:06	05/14/24 10:03	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/08/24 09:06	05/14/24 10:03	1
Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac			
1-Chlorooctane	88		70 - 130	05/08/24 09:06	05/14/24 10:03	1			
o-Terphenyl	88		70 - 130	05/08/24 09:06	05/14/24 10:03	1			

Lab Sample ID: LCS 880-80222/2-A

Matrix: Solid

Analysis Batch: 80690

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 80222

Analyte			Spike	LCS	LCS	Unit	D	%Rec	%Rec		
			Added	Result	Qualifier			Limits	Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1037		mg/Kg		104	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	884.6		mg/Kg		88	70 - 130		

Lab Sample ID: LCSD 880-80222/3-A

Matrix: Solid

Analysis Batch: 80690

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 80222

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	981.8		mg/Kg		98	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	1000	853.6		mg/Kg		85	70 - 130	4	20

Eurofins Midland

QC Sample Results

Client: Crain Environmental
Project/Site: Tom Closson #1

Job ID: 880-43226-1
SDG: Lea Co., NM

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

Lab Sample ID: LCSD 880-80222/3-A

Matrix: Solid

Analysis Batch: 80690

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 80222

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	90		70 - 130
o-Terphenyl	92		70 - 130

Lab Sample ID: MB 880-80265/1-A

Matrix: Solid

Analysis Batch: 80694

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 80265

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/08/24 13:27	05/14/24 10:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/08/24 13:27	05/14/24 10:03	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/08/24 13:27	05/14/24 10:03	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130	05/08/24 13:27	05/14/24 10:03	1
o-Terphenyl	83		70 - 130	05/08/24 13:27	05/14/24 10:03	1

Lab Sample ID: LCS 880-80265/2-A

Matrix: Solid

Analysis Batch: 80694

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 80265

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	879.9		mg/Kg		88	70 - 130
Diesel Range Organics (Over C10-C28)	1000	793.4		mg/Kg		79	70 - 130

Surrogate	LCS	LCS	Limits
1-Chlorooctane	85		70 - 130
o-Terphenyl	87		70 - 130

Lab Sample ID: LCSD 880-80265/3-A

Matrix: Solid

Analysis Batch: 80694

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 80265

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	867.0		mg/Kg		87	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	774.7		mg/Kg		77	70 - 130	2	20

Surrogate	LCSD	LCSD	Limits
1-Chlorooctane	84		70 - 130
o-Terphenyl	86		70 - 130

Eurofins Midland

QC Sample Results

Client: Crain Environmental
Project/Site: Tom Closson #1

Job ID: 880-43226-1
SDG: Lea Co., NM

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

Lab Sample ID: MB 880-80281/1-A

Matrix: Solid

Analysis Batch: 80522

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 80281

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/08/24 16:20	05/12/24 01:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/08/24 16:20	05/12/24 01:19	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/08/24 16:20	05/12/24 01:19	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130	05/08/24 16:20	05/12/24 01:19	1
o-Terphenyl	125		70 - 130	05/08/24 16:20	05/12/24 01:19	1

Lab Sample ID: LCS 880-80281/2-A

Matrix: Solid

Analysis Batch: 80522

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 80281

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	863.8		mg/Kg		86	70 - 130
Diesel Range Organics (Over C10-C28)	1000	825.4		mg/Kg		83	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	84		70 - 130
o-Terphenyl	81		70 - 130

Lab Sample ID: LCSD 880-80281/3-A

Matrix: Solid

Analysis Batch: 80522

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 80281

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	980.2		mg/Kg		98	70 - 130	13	20
Diesel Range Organics (Over C10-C28)	1000	918.2		mg/Kg		92	70 - 130	11	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	98		70 - 130
o-Terphenyl	97		70 - 130

Lab Sample ID: MB 880-80296/1-A

Matrix: Solid

Analysis Batch: 80414

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 80296

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/08/24 16:52	05/10/24 19:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/08/24 16:52	05/10/24 19:36	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/08/24 16:52	05/10/24 19:36	1

Eurofins Midland

QC Sample Results

Client: Crain Environmental
Project/Site: Tom Closson #1

Job ID: 880-43226-1
SDG: Lea Co., NM

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

Lab Sample ID: MB 880-80296/1-A

Matrix: Solid

Analysis Batch: 80414

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 80296

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130	05/08/24 16:52	05/10/24 19:36	1
o-Terphenyl	127		70 - 130	05/08/24 16:52	05/10/24 19:36	1

Lab Sample ID: LCS 880-80296/2-A

Matrix: Solid

Analysis Batch: 80414

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 80296

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1146		mg/Kg		115	70 - 130
Diesel Range Organics (Over C10-C28)	1000	966.0		mg/Kg		97	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	101		70 - 130
o-Terphenyl	93		70 - 130

Lab Sample ID: LCSD 880-80296/3-A

Matrix: Solid

Analysis Batch: 80414

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 80296

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1157		mg/Kg		116	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	973.8		mg/Kg		97	70 - 130	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	102		70 - 130
o-Terphenyl	95		70 - 130

Lab Sample ID: MB 880-80820/1-A

Matrix: Solid

Analysis Batch: 80929

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 80820

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/15/24 15:10	05/17/24 19:20	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/15/24 15:10	05/17/24 19:20	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/15/24 15:10	05/17/24 19:20	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130	05/15/24 15:10	05/17/24 19:20	1
o-Terphenyl	112		70 - 130	05/15/24 15:10	05/17/24 19:20	1

Eurofins Midland

QC Sample Results

Client: Crain Environmental
Project/Site: Tom Closson #1

Job ID: 880-43226-1
SDG: Lea Co., NM

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

Lab Sample ID: LCS 880-80820/2-A

Matrix: Solid

Analysis Batch: 80929

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 80820

Analyte			Spike	LCS	LCS	Unit	D	%Rec	%Rec		
			Added	Result	Qualifier			Limits	Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	977.0		mg/Kg		98		70 - 130	
Diesel Range Organics (Over C10-C28)			1000	910.8		mg/Kg		91		70 - 130	

Lab Sample ID: LCSD 880-80820/3-A

Matrix: Solid

Analysis Batch: 80929

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 80820

Report Data: 00000											
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	975.3		mg/Kg		98	70 - 130	0	20
Diesel Range Organics (Over C10-C28)			1000	891.6		mg/Kg		89	70 - 130	2	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits								
1-Chlorooctane	104		70 - 130								
o-Terphenyl	92		70 - 130								

Lab Sample ID: MB 880-80851/1-A

Matrix: Solid

Analysis Batch: 80845

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 80851

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/16/24 08:07	05/16/24 08:40	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/16/24 08:07	05/16/24 08:40	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/16/24 08:07	05/16/24 08:40	1
Surrogate	MB	MB	Limits				Prepared	Analyzed	Dil Fac
%Recovery	Qualifier								
1-Chlorooctane	102		70 - 130				05/16/24 08:07	05/16/24 08:40	1
o-Terphenyl	112		70 - 130				05/16/24 08:07	05/16/24 08:40	1

Lab Sample ID: LCS 880-80851/2-A

Matrix: Solid

Analysis Batch: 80845

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 80851

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	913.4		mg/Kg		91	70 - 130
Diesel Range Organics (Over C10-C28)	1000	823.6		mg/Kg		82	70 - 130

Eurofins Midland

QC Sample Results

Client: Crain Environmental
Project/Site: Tom Closson #1

Job ID: 880-43226-1
SDG: Lea Co., NM

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

Lab Sample ID: LCS 880-80851/2-A

Matrix: Solid

Analysis Batch: 80845

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 80851

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	102		70 - 130
o-Terphenyl	91		70 - 130

Lab Sample ID: LCSD 880-80851/3-A

Matrix: Solid

Analysis Batch: 80845

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 80851

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	862.8		mg/Kg		86	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	1000	795.0		mg/Kg		80	70 - 130	4	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	101		70 - 130
o-Terphenyl	91		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-80266/1-A

Matrix: Solid

Analysis Batch: 80268

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			05/09/24 00:18	1

Lab Sample ID: LCS 880-80266/2-A

Matrix: Solid

Analysis Batch: 80268

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	250	259.6		mg/Kg		104	90 - 110		

Lab Sample ID: LCSD 880-80266/3-A

Matrix: Solid

Analysis Batch: 80268

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	260.2		mg/Kg		104	90 - 110	0	20

Lab Sample ID: MB 880-80288/1-A

Matrix: Solid

Analysis Batch: 80325

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			05/10/24 19:35	1

Eurofins Midland

QC Sample Results

Client: Crain Environmental
Project/Site: Tom Closson #1

Job ID: 880-43226-1
SDG: Lea Co., NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-80288/2-A

Matrix: Solid

Analysis Batch: 80325

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	234.7		mg/Kg		94	90 - 110

Lab Sample ID: LCSD 880-80288/3-A

Matrix: Solid

Analysis Batch: 80325

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	233.5		mg/Kg		93	90 - 110	1	20

Lab Sample ID: 880-43226-5 MS

Matrix: Solid

Analysis Batch: 80325

Client Sample ID: SB-2 (1')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	175		249	406.4		mg/Kg		93	90 - 110

Lab Sample ID: 880-43226-5 MSD

Matrix: Solid

Analysis Batch: 80325

Client Sample ID: SB-2 (1')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	175		249	406.5		mg/Kg		93	90 - 110	0	20

QC Association Summary

Client: Crain Environmental
Project/Site: Tom Closson #1

Job ID: 880-43226-1
SDG: Lea Co., NM

GC VOA

Analysis Batch: 80207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-43226-1	SB-1 (1')	Total/NA	Solid	8021B	80259
880-43226-8	SB-2 (4.1')	Total/NA	Solid	8021B	80259
MB 880-80259/5-A	Method Blank	Total/NA	Solid	8021B	80259
LCS 880-80259/1-A	Lab Control Sample	Total/NA	Solid	8021B	80259
LCSD 880-80259/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	80259

Prep Batch: 80259

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-43226-1	SB-1 (1')	Total/NA	Solid	5035	
880-43226-8	SB-2 (4.1')	Total/NA	Solid	5035	
MB 880-80259/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-80259/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-80259/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 80320

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-43226-3	SB-1 (3')	Total/NA	Solid	8021B	80369
880-43226-5	SB-2 (1')	Total/NA	Solid	8021B	80369
880-43226-7	SB-2 (3')	Total/NA	Solid	8021B	80369
880-43226-9	SB-3 (1')	Total/NA	Solid	8021B	80369
880-43226-11	SB-3 (3')	Total/NA	Solid	8021B	80369
MB 880-80327/5-A	Method Blank	Total/NA	Solid	8021B	80327
MB 880-80369/5-A	Method Blank	Total/NA	Solid	8021B	80369
LCS 880-80369/1-A	Lab Control Sample	Total/NA	Solid	8021B	80369
LCSD 880-80369/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	80369

Prep Batch: 80327

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-80327/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 80369

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-43226-3	SB-1 (3')	Total/NA	Solid	5035	
880-43226-5	SB-2 (1')	Total/NA	Solid	5035	
880-43226-7	SB-2 (3')	Total/NA	Solid	5035	
880-43226-9	SB-3 (1')	Total/NA	Solid	5035	
880-43226-11	SB-3 (3')	Total/NA	Solid	5035	
MB 880-80369/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-80369/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-80369/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 80378

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-43226-1	SB-1 (1')	Total/NA	Solid	Total BTEX	
880-43226-3	SB-1 (3')	Total/NA	Solid	Total BTEX	
880-43226-5	SB-2 (1')	Total/NA	Solid	Total BTEX	
880-43226-7	SB-2 (3')	Total/NA	Solid	Total BTEX	
880-43226-8	SB-2 (4.1')	Total/NA	Solid	Total BTEX	
880-43226-9	SB-3 (1')	Total/NA	Solid	Total BTEX	
880-43226-11	SB-3 (3')	Total/NA	Solid	Total BTEX	

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QC Association Summary

Client: Crain Environmental
Project/Site: Tom Closson #1

Job ID: 880-43226-1
SDG: Lea Co., NM

GC Semi VOA

Prep Batch: 80222

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-43226-8	SB-2 (4.1')	Total/NA	Solid	8015NM Prep	
880-43226-9	SB-3 (1')	Total/NA	Solid	8015NM Prep	
880-43226-11	SB-3 (3')	Total/NA	Solid	8015NM Prep	
880-43226-12	SB-3 (4.1')	Total/NA	Solid	8015NM Prep	
880-43226-13	SB-4 (1')	Total/NA	Solid	8015NM Prep	
880-43226-18	SB-5 (1')	Total/NA	Solid	8015NM Prep	
880-43226-22	SB-6 (1')	Total/NA	Solid	8015NM Prep	
MB 880-80222/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-80222/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-80222/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 80265

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-43226-4	SB-1 (4.1')	Total/NA	Solid	8015NM Prep	
880-43226-5	SB-2 (1')	Total/NA	Solid	8015NM Prep	
880-43226-7	SB-2 (3')	Total/NA	Solid	8015NM Prep	
MB 880-80265/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-80265/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-80265/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 80281

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-43226-1	SB-1 (1')	Total/NA	Solid	8015NM Prep	
MB 880-80281/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-80281/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-80281/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 80296

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-43226-3	SB-1 (3')	Total/NA	Solid	8015NM Prep	
MB 880-80296/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-80296/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-80296/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 80414

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-43226-3	SB-1 (3')	Total/NA	Solid	8015B NM	80296
MB 880-80296/1-A	Method Blank	Total/NA	Solid	8015B NM	80296
LCS 880-80296/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	80296
LCSD 880-80296/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	80296

Analysis Batch: 80522

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-43226-1	SB-1 (1')	Total/NA	Solid	8015B NM	80281
MB 880-80281/1-A	Method Blank	Total/NA	Solid	8015B NM	80281
LCS 880-80281/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	80281
LCSD 880-80281/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	80281

Analysis Batch: 80598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-43226-1	SB-1 (1')	Total/NA	Solid	8015 NM	

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QC Association Summary

Client: Crain Environmental
Project/Site: Tom Closson #1

Job ID: 880-43226-1
SDG: Lea Co., NM

GC Semi VOA (Continued)

Analysis Batch: 80598 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-43226-3	SB-1 (3')	Total/NA	Solid	8015 NM	
880-43226-4	SB-1 (4.1')	Total/NA	Solid	8015 NM	
880-43226-5	SB-2 (1')	Total/NA	Solid	8015 NM	
880-43226-7	SB-2 (3')	Total/NA	Solid	8015 NM	
880-43226-8	SB-2 (4.1')	Total/NA	Solid	8015 NM	
880-43226-9	SB-3 (1')	Total/NA	Solid	8015 NM	
880-43226-11	SB-3 (3')	Total/NA	Solid	8015 NM	
880-43226-12	SB-3 (4.1')	Total/NA	Solid	8015 NM	
880-43226-13	SB-4 (1')	Total/NA	Solid	8015 NM	
880-43226-16	SB-4 (4.1')	Total/NA	Solid	8015 NM	
880-43226-18	SB-5 (1')	Total/NA	Solid	8015 NM	
880-43226-21	SB-5 (4.1')	Total/NA	Solid	8015 NM	
880-43226-22	SB-6 (1')	Total/NA	Solid	8015 NM	
880-43226-25	SB-6 (4.1')	Total/NA	Solid	8015 NM	
880-43226-26	SB-6 (6.5')	Total/NA	Solid	8015 NM	
880-43226-27	SB-6 (9')	Total/NA	Solid	8015 NM	

Analysis Batch: 80690

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-43226-8	SB-2 (4.1')	Total/NA	Solid	8015B NM	80222
880-43226-9	SB-3 (1')	Total/NA	Solid	8015B NM	80222
880-43226-11	SB-3 (3')	Total/NA	Solid	8015B NM	80222
880-43226-12	SB-3 (4.1')	Total/NA	Solid	8015B NM	80222
880-43226-13	SB-4 (1')	Total/NA	Solid	8015B NM	80222
880-43226-18	SB-5 (1')	Total/NA	Solid	8015B NM	80222
880-43226-22	SB-6 (1')	Total/NA	Solid	8015B NM	80222
MB 880-80222/1-A	Method Blank	Total/NA	Solid	8015B NM	80222
LCS 880-80222/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	80222
LCSD 880-80222/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	80222

Analysis Batch: 80694

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-43226-4	SB-1 (4.1')	Total/NA	Solid	8015B NM	80265
880-43226-5	SB-2 (1')	Total/NA	Solid	8015B NM	80265
880-43226-7	SB-2 (3')	Total/NA	Solid	8015B NM	80265
MB 880-80265/1-A	Method Blank	Total/NA	Solid	8015B NM	80265
LCS 880-80265/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	80265
LCSD 880-80265/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	80265

Prep Batch: 80820

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-43226-16	SB-4 (4.1')	Total/NA	Solid	8015NM Prep	
MB 880-80820/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-80820/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-80820/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 80845

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-43226-21	SB-5 (4.1')	Total/NA	Solid	8015B NM	80851
880-43226-25	SB-6 (4.1')	Total/NA	Solid	8015B NM	80851
880-43226-26	SB-6 (6.5')	Total/NA	Solid	8015B NM	80851

Eurofins Midland

QC Association Summary

Client: Crain Environmental
Project/Site: Tom Closson #1

Job ID: 880-43226-1
SDG: Lea Co., NM

GC Semi VOA (Continued)

Analysis Batch: 80845 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-43226-27	SB-6 (9')	Total/NA	Solid	8015B NM	80851
MB 880-80851/1-A	Method Blank	Total/NA	Solid	8015B NM	80851
LCS 880-80851/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	80851
LCSD 880-80851/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	80851

Prep Batch: 80851

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-43226-21	SB-5 (4.1')	Total/NA	Solid	8015NM Prep	
880-43226-25	SB-6 (4.1')	Total/NA	Solid	8015NM Prep	
880-43226-26	SB-6 (6.5')	Total/NA	Solid	8015NM Prep	
880-43226-27	SB-6 (9')	Total/NA	Solid	8015NM Prep	
MB 880-80851/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-80851/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-80851/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 80929

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-43226-16	SB-4 (4.1')	Total/NA	Solid	8015B NM	80820
MB 880-80820/1-A	Method Blank	Total/NA	Solid	8015B NM	80820
LCS 880-80820/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	80820
LCSD 880-80820/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	80820

HPLC/IC

Leach Batch: 80266

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-43226-1	SB-1 (1')	Soluble	Solid	DI Leach	
880-43226-3	SB-1 (3')	Soluble	Solid	DI Leach	
880-43226-4	SB-1 (4.1')	Soluble	Solid	DI Leach	
MB 880-80266/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-80266/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-80266/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 80268

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-43226-1	SB-1 (1')	Soluble	Solid	300.0	80266
880-43226-3	SB-1 (3')	Soluble	Solid	300.0	80266
880-43226-4	SB-1 (4.1')	Soluble	Solid	300.0	80266
MB 880-80266/1-A	Method Blank	Soluble	Solid	300.0	80266
LCS 880-80266/2-A	Lab Control Sample	Soluble	Solid	300.0	80266
LCSD 880-80266/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	80266

Leach Batch: 80288

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-43226-5	SB-2 (1')	Soluble	Solid	DI Leach	
880-43226-7	SB-2 (3')	Soluble	Solid	DI Leach	
880-43226-8	SB-2 (4.1')	Soluble	Solid	DI Leach	
880-43226-9	SB-3 (1')	Soluble	Solid	DI Leach	
880-43226-11	SB-3 (3')	Soluble	Solid	DI Leach	
880-43226-12	SB-3 (4.1')	Soluble	Solid	DI Leach	
880-43226-13	SB-4 (1')	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Crain Environmental
Project/Site: Tom Closson #1

Job ID: 880-43226-1
SDG: Lea Co., NM

HPLC/IC (Continued)

Leach Batch: 80288 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-43226-18	SB-5 (1')	Soluble	Solid	DI Leach	
880-43226-22	SB-6 (1')	Soluble	Solid	DI Leach	
MB 880-80288/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-80288/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-80288/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-43226-5 MS	SB-2 (1')	Soluble	Solid	DI Leach	
880-43226-5 MSD	SB-2 (1')	Soluble	Solid	DI Leach	

Analysis Batch: 80325

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-43226-5	SB-2 (1')	Soluble	Solid	300.0	80288
880-43226-7	SB-2 (3')	Soluble	Solid	300.0	80288
880-43226-8	SB-2 (4.1')	Soluble	Solid	300.0	80288
880-43226-9	SB-3 (1')	Soluble	Solid	300.0	80288
880-43226-11	SB-3 (3')	Soluble	Solid	300.0	80288
880-43226-12	SB-3 (4.1')	Soluble	Solid	300.0	80288
880-43226-13	SB-4 (1')	Soluble	Solid	300.0	80288
880-43226-18	SB-5 (1')	Soluble	Solid	300.0	80288
880-43226-22	SB-6 (1')	Soluble	Solid	300.0	80288
MB 880-80288/1-A	Method Blank	Soluble	Solid	300.0	80288
LCS 880-80288/2-A	Lab Control Sample	Soluble	Solid	300.0	80288
LCSD 880-80288/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	80288
880-43226-5 MS	SB-2 (1')	Soluble	Solid	300.0	80288
880-43226-5 MSD	SB-2 (1')	Soluble	Solid	300.0	80288

Lab Chronicle

Client: Crain Environmental
Project/Site: Tom Closson #1

Job ID: 880-43226-1
SDG: Lea Co., NM

Client Sample ID: SB-1 (1')**Lab Sample ID: 880-43226-1****Date Collected: 05/07/24 08:40****Matrix: Solid****Date Received: 05/08/24 10:57**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	80259	05/08/24 14:21	AA	EET MID
Total/NA	Analysis	8021B		50	5 mL	5 mL	80207	05/08/24 18:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			80378	05/08/24 18:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			80598	05/12/24 10:04	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	80281	05/08/24 16:20	EL	EET MID
Total/NA	Analysis	8015B NM		10	1 uL	1 uL	80522	05/12/24 10:04	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	80266	05/08/24 13:47	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	80268	05/09/24 02:51	SMC	EET MID

Client Sample ID: SB-1 (3')**Lab Sample ID: 880-43226-3****Date Collected: 05/07/24 08:55****Matrix: Solid****Date Received: 05/08/24 10:57**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	80369	05/09/24 14:16	MNR	EET MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	80320	05/10/24 04:59	SM	EET MID
Total/NA	Analysis	Total BTEX		1			80378	05/10/24 04:59	SM	EET MID
Total/NA	Analysis	8015 NM		1			80598	05/11/24 03:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	80296	05/08/24 16:52	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	80414	05/11/24 03:47	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	80266	05/08/24 13:47	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	80268	05/09/24 02:56	SMC	EET MID

Client Sample ID: SB-1 (4.1')**Lab Sample ID: 880-43226-4****Date Collected: 05/07/24 09:04****Matrix: Solid****Date Received: 05/08/24 10:57**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			80598	05/14/24 21:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	80265	05/08/24 13:27	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	80694	05/14/24 21:14	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	80266	05/08/24 13:47	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	80268	05/09/24 03:02	SMC	EET MID

Client Sample ID: SB-2 (1')**Lab Sample ID: 880-43226-5****Date Collected: 05/07/24 09:10****Matrix: Solid****Date Received: 05/08/24 10:57**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	80369	05/09/24 14:16	MNR	EET MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	80320	05/10/24 05:19	SM	EET MID
Total/NA	Analysis	Total BTEX		1			80378	05/10/24 05:19	SM	EET MID
Total/NA	Analysis	8015 NM		1			80598	05/14/24 21:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	80265	05/08/24 13:27	EL	EET MID
Total/NA	Analysis	8015B NM		20	1 uL	1 uL	80694	05/14/24 21:31	TKC	EET MID

Eurofins Midland

Lab Chronicle

Client: Crain Environmental
Project/Site: Tom Closson #1

Job ID: 880-43226-1
SDG: Lea Co., NM

Client Sample ID: SB-2 (1')**Lab Sample ID: 880-43226-5****Date Collected: 05/07/24 09:10****Matrix: Solid****Date Received: 05/08/24 10:57**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	80288	05/08/24 16:43	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	80325	05/10/24 19:54	SMC	EET MID

Client Sample ID: SB-2 (3')**Lab Sample ID: 880-43226-7****Date Collected: 05/07/24 09:20****Matrix: Solid****Date Received: 05/08/24 10:57**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	80369	05/09/24 14:16	MNR	EET MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	80320	05/10/24 05:40	SM	EET MID
Total/NA	Analysis	Total BTEX		1			80378	05/10/24 05:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			80598	05/14/24 21:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	80265	05/08/24 13:27	EL	EET MID
Total/NA	Analysis	8015B NM		10	1 uL	1 uL	80694	05/14/24 21:48	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	80288	05/08/24 16:43	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	80325	05/10/24 20:13	SMC	EET MID

Client Sample ID: SB-2 (4.1')**Lab Sample ID: 880-43226-8****Date Collected: 05/07/24 09:25****Matrix: Solid****Date Received: 05/08/24 10:57**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	80259	05/08/24 14:21	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	80207	05/08/24 17:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			80378	05/08/24 17:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			80598	05/14/24 20:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	80222	05/08/24 09:07	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	80690	05/14/24 20:07	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	80288	05/08/24 16:43	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	80325	05/10/24 20:19	SMC	EET MID

Client Sample ID: SB-3 (1')**Lab Sample ID: 880-43226-9****Date Collected: 05/07/24 09:35****Matrix: Solid****Date Received: 05/08/24 10:57**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	80369	05/09/24 14:16	MNR	EET MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	80320	05/10/24 06:00	SM	EET MID
Total/NA	Analysis	Total BTEX		1			80378	05/10/24 06:00	SM	EET MID
Total/NA	Analysis	8015 NM		1			80598	05/14/24 20:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	80222	05/08/24 09:07	EL	EET MID
Total/NA	Analysis	8015B NM		20	1 uL	1 uL	80690	05/14/24 20:23	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	80288	05/08/24 16:43	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	80325	05/10/24 20:25	SMC	EET MID

Eurofins Midland

Lab Chronicle

Client: Crain Environmental
Project/Site: Tom Closson #1

Job ID: 880-43226-1
SDG: Lea Co., NM

Client Sample ID: SB-3 (3')**Lab Sample ID: 880-43226-11****Date Collected: 05/07/24 09:45****Matrix: Solid****Date Received: 05/08/24 10:57**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	80369	05/09/24 14:16	MNR	EET MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	80320	05/10/24 06:21	SM	EET MID
Total/NA	Analysis	Total BTEX		1			80378	05/10/24 06:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			80598	05/14/24 20:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	80222	05/08/24 09:07	EL	EET MID
Total/NA	Analysis	8015B NM		20	1 uL	1 uL	80690	05/14/24 20:40	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	80288	05/08/24 16:43	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	80325	05/10/24 20:32	SMC	EET MID

Client Sample ID: SB-3 (4.1')**Lab Sample ID: 880-43226-12****Date Collected: 05/07/24 09:50****Matrix: Solid****Date Received: 05/08/24 10:57**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			80598	05/14/24 20:57	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	80222	05/08/24 09:07	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	80690	05/14/24 20:57	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	80288	05/08/24 16:43	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	80325	05/10/24 20:51	SMC	EET MID

Client Sample ID: SB-4 (1')**Lab Sample ID: 880-43226-13****Date Collected: 05/07/24 10:40****Matrix: Solid****Date Received: 05/08/24 10:57**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			80598	05/14/24 21:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.10 g	10 mL	80222	05/08/24 09:07	EL	EET MID
Total/NA	Analysis	8015B NM		20	1 uL	1 uL	80690	05/14/24 21:14	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	80288	05/08/24 16:43	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	80325	05/10/24 20:57	SMC	EET MID

Client Sample ID: SB-4 (4.1')**Lab Sample ID: 880-43226-16****Date Collected: 05/07/24 10:55****Matrix: Solid****Date Received: 05/08/24 10:57**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			80598	05/18/24 03:49	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	80820	05/15/24 15:11	EL	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	80929	05/18/24 03:49	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Crain Environmental
Project/Site: Tom Closson #1

Job ID: 880-43226-1
SDG: Lea Co., NM

Client Sample ID: SB-5 (1')**Lab Sample ID: 880-43226-18****Date Collected: 05/07/24 11:10****Matrix: Solid****Date Received: 05/08/24 10:57**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			80598	05/14/24 21:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	80222	05/08/24 09:07	EL	EET MID
Total/NA	Analysis	8015B NM		20	1 uL	1 uL	80690	05/14/24 21:31	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	80288	05/08/24 16:43	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	80325	05/10/24 21:03	SMC	EET MID

Client Sample ID: SB-5 (4.1')**Lab Sample ID: 880-43226-21****Date Collected: 05/07/24 11:25****Matrix: Solid****Date Received: 05/08/24 10:57**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			80598	05/16/24 17:52	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	80851	05/16/24 08:07	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	80845	05/16/24 17:52	SM	EET MID

Client Sample ID: SB-6 (1')**Lab Sample ID: 880-43226-22****Date Collected: 05/07/24 10:10****Matrix: Solid****Date Received: 05/08/24 10:57**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			80598	05/14/24 21:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	80222	05/08/24 09:07	EL	EET MID
Total/NA	Analysis	8015B NM		20	1 uL	1 uL	80690	05/14/24 21:48	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	80288	05/08/24 16:43	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	80325	05/10/24 21:09	SMC	EET MID

Client Sample ID: SB-6 (4.1')**Lab Sample ID: 880-43226-25****Date Collected: 05/07/24 10:25****Matrix: Solid****Date Received: 05/08/24 10:57**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			80598	05/16/24 17:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	80851	05/16/24 08:07	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	80845	05/16/24 17:31	SM	EET MID

Client Sample ID: SB-6 (6.5')**Lab Sample ID: 880-43226-26****Date Collected: 05/07/24 10:28****Matrix: Solid****Date Received: 05/08/24 10:57**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			80598	05/16/24 18:32	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	80851	05/16/24 08:07	EL	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	80845	05/16/24 18:32	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Crain Environmental
Project/Site: Tom Closson #1

Job ID: 880-43226-1
SDG: Lea Co., NM

Client Sample ID: SB-6 (9')
Date Collected: 05/07/24 10:32
Date Received: 05/08/24 10:57

Lab Sample ID: 880-43226-27
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			80598	05/16/24 18:12	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	80851	05/16/24 08:07	EL	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	80845	05/16/24 18:12	SM	EET MID

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

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Accreditation/Certification Summary

Client: Crain Environmental
Project/Site: Tom Closson #1

Job ID: 880-43226-1
SDG: Lea Co., 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
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Crain Environmental
Project/Site: Tom Closson #1

Job ID: 880-43226-1
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: Tom Closson #1

Job ID: 880-43226-1
SDG: Lea Co., NM

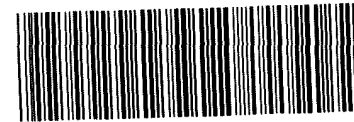
Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-43226-1	SB-1 (1')	Solid	05/07/24 08:40	05/08/24 10:57	1'
880-43226-3	SB-1 (3')	Solid	05/07/24 08:55	05/08/24 10:57	3'
880-43226-4	SB-1 (4.1')	Solid	05/07/24 09:04	05/08/24 10:57	4.1'
880-43226-5	SB-2 (1')	Solid	05/07/24 09:10	05/08/24 10:57	1'
880-43226-7	SB-2 (3')	Solid	05/07/24 09:20	05/08/24 10:57	3'
880-43226-8	SB-2 (4.1')	Solid	05/07/24 09:25	05/08/24 10:57	4.1'
880-43226-9	SB-3 (1')	Solid	05/07/24 09:35	05/08/24 10:57	1'
880-43226-11	SB-3 (3')	Solid	05/07/24 09:45	05/08/24 10:57	3'
880-43226-12	SB-3 (4.1')	Solid	05/07/24 09:50	05/08/24 10:57	4.1'
880-43226-13	SB-4 (1')	Solid	05/07/24 10:40	05/08/24 10:57	1'
880-43226-16	SB-4 (4.1')	Solid	05/07/24 10:55	05/08/24 10:57	4.1'
880-43226-18	SB-5 (1')	Solid	05/07/24 11:10	05/08/24 10:57	1'
880-43226-21	SB-5 (4.1')	Solid	05/07/24 11:25	05/08/24 10:57	4.1'
880-43226-22	SB-6 (1')	Solid	05/07/24 10:10	05/08/24 10:57	1'
880-43226-25	SB-6 (4.1')	Solid	05/07/24 10:25	05/08/24 10:57	4.1'
880-43226-26	SB-6 (6.5')	Solid	05/07/24 10:28	05/08/24 10:57	6.5'
880-43226-27	SB-6 (9')	Solid	05/07/24 10:32	05/08/24 10:57	9'



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



880-43226 Chain of Custody

Project Manager:	Cindy Crain	Bill to: (if different)	Billy Moore (432) 770-4217
Company Name:	Crain Environmental	Company Name:	FAE II
Address:	2925 E. 17th St.	Address:	11757 Katy Frwy, Ste. 725
City, State ZIP:	Odessa, TX 79701	City, State ZIP:	Houston, TX 77079
Phone:	(575) 441-7244	Email:	Cindy.Crain@gmail.com; billy@faenergyus.com

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

Project Name:		Turn Around		ANALYSIS REQUEST																Preservative Codes					
Project Number:		<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush		Pres. Code																		None NO DI Water H ₂ O			
Project Location:		Due Date:		Parameters																		Cool Cool MeOH Me			
Sampler's Name:		TAT starts the day received by the lab, if received by 4:30pm																				HCL HC HNO ₃ HN			
PO #																						H ₂ SO ₄ H ₂ NaOH Na			
SAMPLE RECEIPT		Temp Blank:		Wet Ice:		TPH 8015 M Chlorides BTEX HOLD																H ₃ PO ₄ HP			
Samples Received Intact:		Yes No		Thermometer ID:																		NaHSO ₄ NABIS			
Cooler Custody Seals:		Yes No		Correction Factor:																		Na ₂ S ₂ O ₃ NaSO ₃			
Sample Custody Seals:		Yes No		Temperature Reading:																		Zn Acetate+NaOH Zn			
Total Containers:				Corrected Temperature:																		NaOH+Ascorbic Acid SACP			
Sample Identification		Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont																	Sample Comments	
SB-1 (1')		S	5/7/24	0840	1'	G	1																		
SB-1 (2')				0845	2'																				
SB-1 (3')				0855	3'																				
SB-1 (4.1')				0904	4.1'																				
SB-2 (1')				0910	1'																				
SB-2 (2')				0915	2'																				
SB-2 (3')				0920	3'																				
SB-2 (4.1')				0925	4.1'																				
SB-3 (1')				0935	1'																				
SB-3 (2')		↓	↓	0940	2'	↓	↓																		

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

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	Cindy Crain	5/8/24	2		
3		1057	4		
5			6		

Revised Date: 08/25/2020 Rev 2020.2



Environment Testing
Xenco

Chain of Custody

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

Work Order No: 43226

www.xenco.com Page 2 of 3

Project Manager:	<u>Cindy Crain</u>	Bill to: (if different)	<u>Billy Moore</u>
Company Name:	<u>Crain Environmental</u>	Company Name:	<u>FAE II</u>
Address:	<u>2425 E. 17th St.</u>	Address:	<u>11757 Katy Frwy, Ste. 725</u>
City, State ZIP:	<u>Odessa, TX 79761</u>	City, State ZIP:	<u>Houston, TX 77079</u>
Phone:	<u>(575) 441-7244</u>	Email:	<u>Cindy.Crain@gmail.com</u>

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

Project Name:		<u>Tom Closson #1</u>		Turn Around		ANALYSIS REQUEST												Preservative Codes					
Project Number:		<u>-</u>		<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush		Pres. Code														None NO DI Water: H ₂ O			
Project Location:		<u>Lea Co. NM</u>		Due Date:																Cool Cool MeOH Me			
Sampler's Name:		<u>Cindy Crain</u>		TAT starts the day received by the lab, if received by 4.30pm																HCL HC HNO ₃ HN			
PO #		<u>-</u>																		H ₂ SO ₄ H ₂ NaOH Na			
SAMPLE RECEIPT		Temp Blank:		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Wet Ice:		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>														H ₃ PO ₄ HP	
Samples Received Intact:		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Thermometer ID:		<u>118</u>														NaHSO ₄ NABIS			
Cooler Custody Seals:		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		Correction Factor:		<u>1</u>														Na ₂ S ₂ O ₃ NaSO ₃			
Sample Custody Seals:		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		Temperature Reading:		<u>1-b</u>														Zn Acetate+NaOH Zn			
Total Containers:				Corrected Temperature:		<u>LS</u>														NaOH+Ascorbic Acid SAPC			
Sample Identification		Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont													Sample Comments			
SB-3 (3')		S	5/7/24	0945	3'	G	1																
SB-3 (4.1')				0950	4.1'																		
SB-4 (1')				1040	1'																		
SB-4 (2')				1045	2'																		
SB-4 (3')				1050	3'																		
SB-4 (4.1')				1055	4.1'																		
SB-4 (9')				1058	9'																		
SB-5 (1')				1110	1'																		
SB-5 (2')				1115	2'																		
SB-5 (3')		↓	↓	1120	3'	↓	↓																

Total 200.7 / 6010	200.8 / 6020:	8RCRA 13PPM Texas 11	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed		TCLP / SPLP 6010	8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg 1631 / 245 1 / 7470 / 7471

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<u>Cindy Crain</u>	<u>[Signature]</u>	<u>5/8/24</u>			
		<u>10/57</u>			

Revised Date: 08/25/2020 Rev. 2020.2



Environment Testing
Xenco

Chain of Custody

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

Work Order No: 43224

www.xenco.com Page 3 of 3

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

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

Project Name:		<u>Tom Closson #1</u>		Turn Around		ANALYSIS REQUEST																Preservative Codes									
Project Number:		<u>-</u>		<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush		Pres. Code																		None NO DI Water: H ₂ O							
Project Location:		<u>Lea Co. NM</u>		Due Date:																				Cool Cool MeOH Me							
Sampler's Name:		<u>Cindy Crain</u>		TAT starts the day received by the lab, if received by 4:30pm																				HCL. HC HNO ₃ HN							
PO #		<u>-</u>																						H ₂ SO ₄ H ₂ NaOH Na							
SAMPLE RECEIPT		Temp Blank:		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Wet Ice:		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>																		H ₃ PO ₄ HP					
Samples Received Intact:		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Thermometer ID:		<u>616</u>																		NaHSO ₄ NABIS							
Cooler Custody Seals:		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		Correction Factor:		<u>-1</u>																		Na ₂ S ₂ O ₃ NaSO ₃							
Sample Custody Seals:		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		Temperature Reading:		<u>1.6</u>																		Zn Acetate+NaOH Zn							
Total Containers:				Corrected Temperature:		<u>LS</u>																		NaOH+Ascorbic Acid. SAPC							
Sample Identification		Matrix		Date Sampled		Time Sampled		Depth		Grab/Comp		# of Cont																		Sample Comments	
<u>SB-5 (4.1')</u>		<u>S</u>		<u>5/7/24</u>		<u>1125</u>		<u>4.1'</u>		<u>G</u>		<u>1</u>																			
<u>SB-6 (1')</u>		<u> </u>		<u> </u>		<u>1010</u>		<u>1'</u>		<u> </u>		<u> </u>		<u>X</u>																	
<u>SB-6 (2')</u>		<u> </u>		<u> </u>		<u>1015</u>		<u>2'</u>		<u> </u>		<u> </u>		<u>X</u>																	
<u>SB-6 (3')</u>		<u> </u>		<u> </u>		<u>1020</u>		<u>3'</u>		<u> </u>		<u> </u>		<u>X</u>																	
<u>SB-6 (4.1')</u>		<u> </u>		<u> </u>		<u>1025</u>		<u>4.1'</u>		<u> </u>		<u> </u>		<u>X</u>																	
<u>SB-6 (6.5')</u>		<u> </u>		<u> </u>		<u>1028</u>		<u>6.5'</u>		<u> </u>		<u> </u>		<u>X</u>																	
<u>SB-6 (9')</u>		<u>↓</u>		<u>↓</u>		<u>1032</u>		<u>9'</u>		<u>↓</u>		<u>↓</u>		<u>X</u>																	

Total 200.7 / 6010	200.8 / 6020:	8RCRA 13PPM Texas 11	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed	TCLP / SPLP 6010	8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U	Hg 1631 / 245 1 / 7470 / 7471

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Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
<u>Cindy Crain</u>	<u>[Signature]</u>	<u>5/8/24</u>			
		<u>1057</u>			

Revised Date: 08/25/2020 Rev 2020.2

Login Sample Receipt Checklist

Client: Crain Environmental

Job Number: 880-43226-1

SDG Number: Lea Co., NM

Login Number: 43226

List Source: Eurofins Midland

List Number: 1

Creator: Rodriguez, Leticia

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

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 451863

QUESTIONS

Operator: FAE II Operating LLC 11757 Katy Freeway, Suite 725 Houston, TX 77079	OGRID: 329326
	Action Number: 451863
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2228055393
Incident Name	NAPP2228055393 TOM CLOSSON BATTERY @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received

Location of Release Source

Please answer all the questions in this group.

Site Name	TOM CLOSSON BATTERY
Date Release Discovered	10/06/2022
Surface Owner	Private

Incident Details

Please answer all the questions in this group.

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

Nature and Volume of Release

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

Crude Oil Released (bbls) Details	Cause: Overflow - Tank, Pit, Etc. Tank (Any) Crude Oil Released: 2 BBL Recovered: 0 BBL Lost: 2 BBL.
Produced Water Released (bbls) Details	Cause: Overflow - Tank, Pit, Etc. Tank (Any) Produced Water Released: 15 BBL Recovered: 0 BBL Lost: 15 BBL.
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)	Release Volume Calculations are for Incident nAPP2228055393 and do not include calculations for the area of historical impacts.

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 2

Action 451863

QUESTIONS (continued)

Operator: FAE II Operating LLC 11757 Katy Freeway, Suite 725 Houston, TX 77079	OGRID: 329326
	Action Number: 451863
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	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	<i>Unavailable.</i>
<i>With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.</i>	

Initial Response

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

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

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

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

I hereby agree and sign off to the above statement	Name: Cindy Crain Email: cindy.crain@gmail.com Date: 04/14/2025
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General Information
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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS, Page 3

Action 451863

QUESTIONS (continued)

Operator: FAE II Operating LLC 11757 Katy Freeway, Suite 725 Houston, TX 77079	OGRID: 329326
	Action Number: 451863
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Site Characterization	
<i>Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	Direct Measurement
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	534
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	9720
GRO+DRO (EPA SW-846 Method 8015M)	8120
BTEX (EPA SW-846 Method 8021B or 8260B)	8.1
Benzene (EPA SW-846 Method 8021B or 8260B)	0
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
On what estimated date will the remediation commence	06/02/2025
On what date will (or did) the final sampling or liner inspection occur	05/30/2027
On what date will (or was) the remediation complete(d)	06/30/2027
What is the estimated surface area (in square feet) that will be reclaimed	396000
What is the estimated volume (in cubic yards) that will be reclaimed	75000
What is the estimated surface area (in square feet) that will be remediated	396000
What is the estimated volume (in cubic yards) that will be remediated	75000
<i>These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.</i>	
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 4

Action 451863

QUESTIONS (continued)

Operator: FAE II Operating LLC 11757 Katy Freeway, Suite 725 Houston, TX 77079	OGRID: 329326
	Action Number: 451863
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	<i>Not answered.</i>
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	<i>Not answered.</i>
(In Situ) Soil Vapor Extraction	<i>Not answered.</i>
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Yes
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	<i>Not answered.</i>
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	<i>Not answered.</i>
Ground Water Abatement pursuant to 19.15.30 NMAC	<i>Not answered.</i>
OTHER (Non-listed remedial process)	<i>Not answered.</i>
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Cindy Crain Email: cindy.crain@gmail.com Date: 04/14/2025
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 451863

QUESTIONS (continued)

Operator: FAE II Operating LLC 11757 Katy Freeway, Suite 725 Houston, TX 77079	OGRID: 329326
	Action Number: 451863
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

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

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QUESTIONS, Page 6

Action 451863

QUESTIONS (continued)

Operator: FAE II Operating LLC 11757 Katy Freeway, Suite 725 Houston, TX 77079	OGRID: 329326
	Action Number: 451863
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	{Unavailable.}

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	No

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CONDITIONS

Action 451863

CONDITIONS

Operator: FAE II Operating LLC 11757 Katy Freeway, Suite 725 Houston, TX 77079	OGRID: 329326
	Action Number: 451863
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
nvez	Remediation plan is approved as written and with the following conditions; 1. FAE II soil shredding method to remediate is approved for hydrogen peroxide application only. FAE II must provide proof (e.g. photo documentation) that a physical barrier will be used to eliminate the follow up vadose zone sampling during the soil shredding process. 2. Sampling frequency increase from 200 to 400 square feet per one (1) 5-point composite is approved for the excavation floor sampling. Sidewall confirmation sampling will remain at 200 square feet per one (1) 5-point composite. 3. Sample analysis will consist of Total Petroleum Hydrocarbons per US EPA Method 8015M and chlorides per US EPA Method 300.0 or SM4500 only. 4. FAE II has 120-days (September 5, 2025) to submit to OCD its appropriate or final remediation closure report. The responsible party may apply for additional time to submit the final closure report upon a showing of good cause as determined by the division.	5/8/2025