Revised Remediation Summary and Closure Report

March 26, 2025

Chem State #001
API No. 30-025-08012
Incident No. nAPP2426158921
Lea County, New Mexico

Prepared For:

Octane Energy
(For Cambrian Management Ltd.)
310 West Wall Street, Suite 300
Midland, Texas 79701

Prepared By:

Crain Environmental
2925 East 17th Street
Odessa, Texas 79761

Cynthia K. Crain, P.G.

Grain Environmental

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1.0 Introduction

Crain Environmental (CE), on behalf of Octane Energy (Octane) for Cambrian Management Ltd. (Cambrian), has prepared this *Revised Remediation Summary and Closure Report* for the crude oil release at Chem State #001 (Site), located approximately 23 miles northwest of Lovington, in Lea County, New Mexico. The global positioning system (GPS) coordinates for the release point are 33.051671, -103.716388. The property surface rights are owned by the State of New Mexico. Land use in the Site vicinity is primarily oil and gas production activity and cattle grazing. The location of the Site is depicted on Figure 1.

2.0 Background

Pending Cambrian plans to plug and abandon (P&A) the Chem State #1 well, CE conducted a site inspection on October 25, 2023. Hydrocarbon staining was observed at the wellhead.

On December 14, 2023, Octane received a letter from the New Mexico State Land Office (SLO) Environmental Compliance Office (ECO) that provided results of a historical aerial review, and notification of a suspected release at the wellhead.

On March 12, 2024, CE conducted an initial soil investigation at the suspect area and provided a Notice of Release (NOR) to the New Mexico Oil Conservation Division (NMOCD) on September 17, 2024. On September 18, 2024, an Initial C-141 was provided to the NMOCD for Incident #nAPP2426158921.

Soil remediation and P&A activities have been conducted, and a Remediation Summary and Closure Report was submitted to the NMOCD on January 25, 2025. On February 6, 2025, the NMOCD denied closure for the following reasons:

- 1) Based on the information provided on Figure 2, the Soil Sample Analytical Results Map, the excavation measured 700 square feet. Looking at the questions in the C-141 application, you answered “400” to “What is the estimated surface area (in square feet) that will be remediated”. Per 19.15.29.12(D)1(c) NMAC, “without division approval, the responsible party may elect to perform a composite and grab sample plan where each composite sample is not representative of more than 200 square feet.” Based on the information provided on Figure 2, an adequate number of base samples were not collected as OCD has not approved an alternative composite and grab sample plan for this incident.
- 2) OCD notes that laboratory results from Stockpiles 1-4 indicate it was waste containing per 19.15.29.13 NMAC. Explain whether or not this or any of this soil was used for backfill. If so, it will need to be removed and taken to an OCD approved disposal facility.
- 3) The laboratory results submitted on pg. 19-64 include sample names that do not correspond with the sample names presented in Figure 2 or Table 1. Explain.
- Resubmit an updated remediation closure report in 60 days, by 4/7/25.

This Revised Remediation Summary and Closure Report addresses OCD concerns and is being submitted in accordance with 19.15.29.11 New Mexico Administrative Code (NMAC) for this historical release. Appendix A provides copies of NMOCD communication.

3.0 NMOCD Closure Criteria

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

- Within 300 feet of any continuously flowing watercourse or any other significant watercourse.
- Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary highwater mark).
- Within 300 feet from an occupied permanent residence, school, hospital, institution or church.
- Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes.
- Within 1,000 feet of any fresh water well or spring.
- Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to Section 3-27-3 NMSA 1978 as amended.
- Within 300 feet of a wetland.
- Within the area overlying a subsurface mine.
- Within an unstable area such as a karst formation.
- Within a 100-year floodplain.

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

3.1 Groundwater Evaluation

A review of the New Mexico Office of the State Engineer (NMOSE) records indicated there are no water wells located within 0.5 mile of the Site that provide data less than 25 years old. Based on the absence of water well data, the most stringent NMOCD Closure Criteria will apply to the Site.

3.2 Surface Features and Other Development

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

- Within 300 feet of any continuously flowing watercourse or any other significant watercourse.
    - No continuously flowing watercourses (rivers, streams, arroyos, etc.) are apparent within 300 feet of the Site in the topographic map (Figure 1) and the National Wetlands Inventory May (Figure 4).

- Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary highwater mark).
    - The topographic map (Figure 1) and National Wetlands Inventory Map (Figure 4) indicates there is not a lakebed, sinkhole or playa lake located within 200 feet of the Site.

      Freshwater emergent wetlands are located approximately 4,350 feet west, 4,660 feet southeast, and 5,000 feet north of the Site. A freshwater pond is located approximately 4,710 feet south 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. Freshwater emergent wetlands are located approximately 4,350 feet west, 4,660 feet southeast, and 5,000 feet north of the Site. A freshwater pond is located approximately 4,710 feet south of the Site.
- Within 1,000 feet of any fresh water well or spring.

  No freshwater wells or springs located within 1,000 feet of the Site appear in any of the records reviewed by CE. Freshwater emergent wetlands are located approximately 4,350 feet west, 4,660 feet southeast, and 5,000 feet north of the Site. A freshwater pond is located approximately 4,710 feet south of the Site.
- 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; however, Freshwater emergent wetlands are located approximately 4,350 feet west, 4,660 feet southeast, and 5,000 feet north of the Site. A freshwater pond is located approximately 4,710 feet south 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 outside of a 100-year floodplain. Freshwater emergent wetlands are located approximately 4,350 feet west, 4,660 feet southeast, and 5,000 feet north of the Site. A freshwater pond is located approximately

4,710 feet south of the Site. Figures 4, 5, and 6 depict the USFWS map, the FEMA floodplain map, and the karst potential map, respectively.

3.4 Closure Criteria Currently Assumed Applicable to the Site

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

NMOCD Closure Criteria

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, the exact depth to groundwater beneath the Site is unknown. During investigation activities, a maximum depth of 2 feet bgs was reached, at which groundwater was not encountered.

4.3 Wellhead Protection Area

The 0.5-mile wellhead protection area is shown on Figure 3. No known water wells are located within 0.5 mile of the Site that provide groundwater information more recent than 25 years ago. A review of the USFWS wetlands map indicated Freshwater emergent wetlands are located approximately 4,350 feet west, 4,660 feet southeast, and 5,000 feet north of the Site. A freshwater pond is located approximately 4,710 feet south of the Site. There were no other water sources, springs, or other sources of freshwater extraction identified within 0.5-mile of the Site.

4.4 Distance to Nearest Significant Watercourse

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

4.5 Summary of Remediation Activities

On March 12, 2024, a soil sample (S-1) was collected using a backhoe. Samples collected at depths of 1' bgs and 2' bgs were placed in laboratory prepared containers, properly labeled, immediately placed on ice, and hand delivered to Eurofins Environment Testing (Eurofins) in Midland, Texas for analysis of total petroleum hydrocarbons (TPH) by EPA Method SW846 8015 Modified, benzene, toluene, ethylbenzene, and xylenes (collectively referred to as BTEX) by EPA Method SW 846 8021B, and chlorides by EPA Method 300.0.

Table 1 provides a summary of the laboratory results. Figure 2 shows the sample locations. The laboratory report and chain of custody documentation are provided in Appendix B. As areas of concern to the east and south of the wellhead were being investigated for ECO, the laboratory report includes samples collected from those areas (S-2 through S-10, and TH-1). Photographic documentation is provided in Appendix C.

Referring to Table 1, concentrations of TPH, total BTEX, and chlorides were reported above the Closure Criteria in each sample.

Excavation was conducted until confirmation samples were collected from the bottom and sidewalls of the excavation (S-11 through S-15), and from caliche that was removed from the well pad (Stockpile 1 through Stockpile 4) on September 26, 2024. Soil in Stockpiles 1 through 4 was hauled to GM, Inc. for disposal. Waste manifests are provided in Appendix D.

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

Referring to Table 1, concentrations of TPH and chlorides were reported above the Closure Criteria in samples S-15, S-11, and S-12. Concentrations of chlorides also exceeded the Closure Criteria in samples S-13 and S-14. Concentrations of BTEX were reported below the test method detection limits or Closure Criteria in all samples.

Excavation was conducted until five-point composite confirmation samples were collected from the bottom and sidewalls of the excavation (S-1 and S-11 through S-14) on November 4, 2024.

Table 1 provides a summary of the laboratory results. Figure 2 shows the sample locations. The laboratory report and chain of custody documentation are provided in Appendix B. As areas of concern to the east and south of the wellhead were being investigated for ECO, the laboratory report includes samples collected from those areas (S-2, S-18, S-32, and S-34). Photographic documentation is provided in Appendix C.

Referring to Table 1, TPH concentrations were reported above the Closure Criteria in samples S-1 at a depth of 7' bgs, S-11 at depths of 0-4' bgs and 4-7' bgs, S-12 at a depth of 4-7' bgs, and S-13 at a depth of 0-4' bgs. Chloride concentrations were reported above the Closure Criteria in samples S-11 at depths of 0-4' bgs and 4-7' bgs, S-12 at a depths of 0-4' bgs and 4-7' bgs, S-13 at depths of 0-4' bgs and 4-7' bgs, and S-14 at depths of 0-4' bgs.

Excavation continued until five-point confirmation samples were collected from the bottom and sidewalls of the excavation (S-1 and S-11 through S-14) on December 18, 2024.

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

Referring to Table 1, all samples reported TPH, BTEX, and chloride concentrations below the test method detection limits or Closure Criteria.

Following rejection of the January 25, 2025, Remediation Summary and Closure Report, one additional five-point composite sample (S-15) was collected from the bottom of the excavation on February 25, 2025, at a depth of 9' bgs. ECO personnel were in attendance to observe the sample collection.

All confirmation samples were collected pursuant to 19.15.29.12(D) NMAC, and were placed in clean glass sample jars, properly labeled, immediately placed on ice and hand delivered to Eurofins under proper chain-of-custody control for analysis of TPH, BTEX, and chlorides.

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

Referring to Table 1, concentrations of all final TPH, BTEX and chlorides were reported below the NMOCD Closure Criteria in all confirmation samples. The dimensions of the final excavation measured 15' x 18' and covered a surface area of 270 square feet.

From September 13 to December 18, 2024, 980 cubic yards (cy) of excavated soil were hauled to disposal at GM Inc. The total volume includes all caliche removed from the surface of the well pad (Stockpile 1 through Stockpile 4). Waste Manifests are provided in Appendix D.

Upon NMOCD approval of this Closure Report, the excavation will be backfilled to grade with non-impacted similar material obtained from a nearby pit. Pursuant to 19.15.29.13 NMAC, the impacted surface areas will be restored to pre-release conditions. Surface grading will be performed to near original conditions and contoured to prevent erosion and ponding, promote stability, and preserve storm water flow patterns. The dimensions of the final excavation measured 15' x 18' and covered a surface area of 270 square feet.

4.6 Laboratory Analytical Data Quality Assurance/Quality Control Results

Data reported in Job Numbers 880-40932-1, 880-49108-1, 880-50851-1, 880-52508-1, and 880-54893-1 generated by Eurofins in Midland, Texas, was reviewed to ensure that reported analytical results met data quality objectives. It was determined by quality control data associated with analytical results that reported concentrations of target analytes are defensible and that measurement data reliability is within the expected limits of sampling and analytical error. All analytical results are usable for characterization of soil at the Site. The laboratory analytical results are provided in Appendix B.

5.0 Request for Closure

A total of 980 cubic yards of soil was excavated and hauled to disposal at GM Inc. The total volume includes all caliche removed from the surface of the well pad (Stockpiles 1 through Stockpiles 4). All confirmation samples collected from the bottom and sidewalls of the excavation reported TPH, Benzene, BTEX, and chloride concentrations below the NMOCD Closure Criteria. The dimensions of the final excavation measured 15' x 18' and covered a surface area of 270 square feet.

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

On behalf of Cambrian Management Ltd, Octane respectfully requests the closure of Incident #nAPP2426158921.

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: New Mexico State Land Office
Environmental Compliance Office
Via email: eco@nmslo.gov

TABLE

TABLE 1
SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS
CAMBRIAN MANAGEMENT, LTD.
CHEM STATE #001
INCIDENT #nAPP2426158921 (Release at Wellhead)

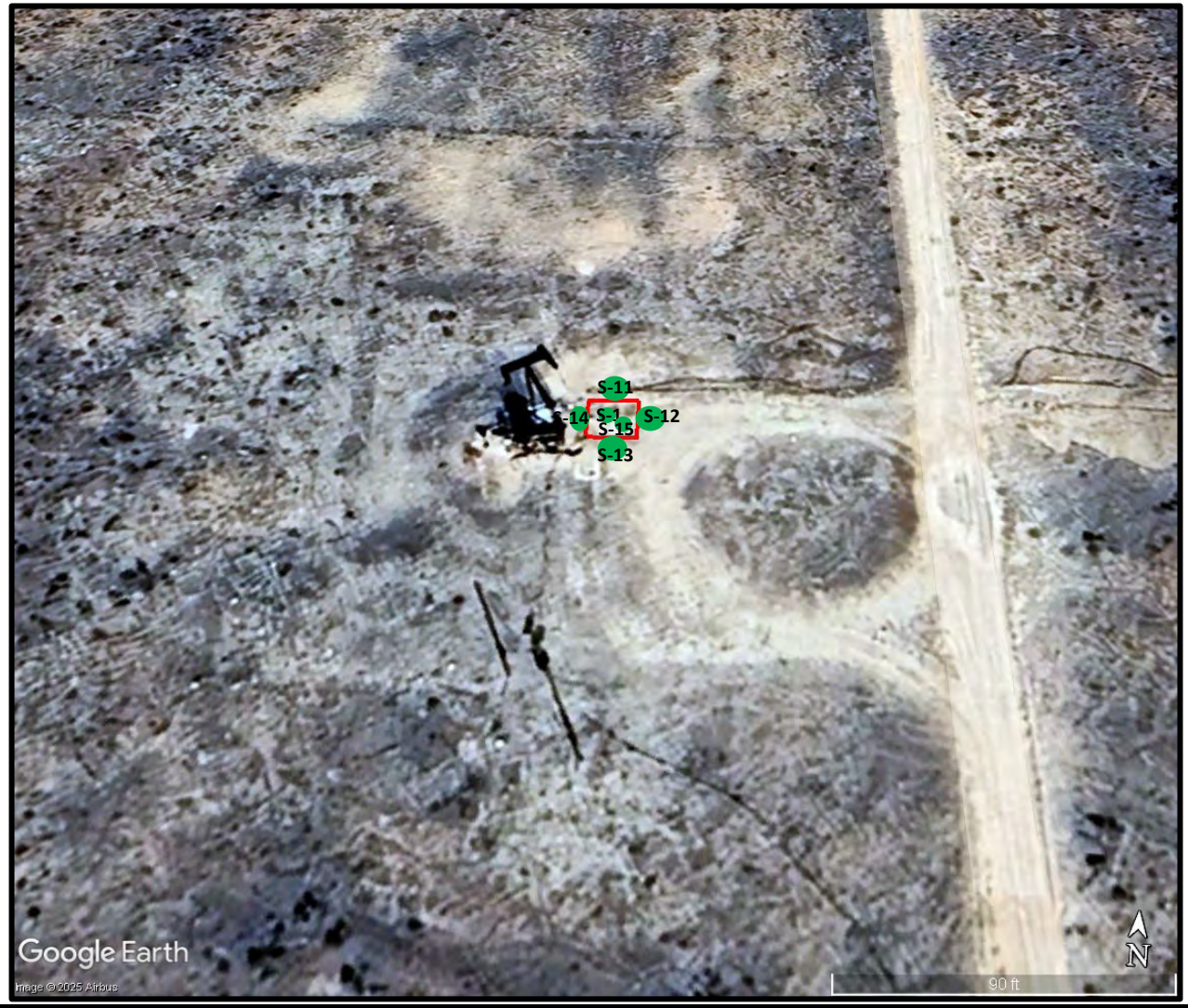
Sample ID	Sample Date	Sample Depth	Soil Status	TPH (GRO)	TPH (DRO)	TPH (MRO)	Total TPH	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	Chloride
				milligrams per kilogram (mg/kg)									
NMOCD Closure Criteria							100	10	-	-	-	50	600
S-1 (1')	03/12/24	1'	Excavated	2,020	11,800	602	14,400	1.48	17.4	14.8	36.8	70.5	8,750
S-1 (2')	03/12/24	2'	Excavated	1,670	11,400	681	13,800	2.85	29.9	22.6	54.4	110	6,490
S-15 (6')	09/26/24	6'	Excavated	<50.0	1,860 +	<50.0	1,860	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	1,840
S-1 (7')	11/04/24	7'	Excavated	<49.7	1,380	<49.7	1,380	--	--	--	--	--	255
S-1 (9')	12/18/24	9'	In Situ	<50.0	<50.0	<50.0	<50.0	<0.00200	0.00486	0.0302	0.00402	0.0391	26.0
S-11 (0-4')	09/26/24	0-4'	Excavated	<49.8	115	<49.8	115	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	605 F1
S-11 (0-4')	11/04/24	0-4'	Excavated	<49.8	517	<49.8	517	--	--	--	--	--	1,620
S-11 (0-4')	12/18/24	0-4'	In Situ	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	54.8
S-11 (4-6')	09/26/24	4-6'	Excavated	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	1,530
S-11 (4-7')	11/04/24	4-7'	Excavated	<49.8	1,280	<49.8	1,280	--	--	--	--	--	3,810
S-11 (4-9')	12/18/24	4-9'	In Situ	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	34.3
S-12 (0-4')	09/26/24	0-4'	Excavated	128 +	6,330 +	<49.7	6,460	0.00588	0.0672	0.00777	0.184	0.265	3,360
S-12 (0-4')	11/04/24	0-4'	Excavated	<49.7	<49.7	<49.7	<49.7	--	--	--	--	--	765
S-12 (0-4')	12/18/24	0-4'	In Situ	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	32.1
S-12 (4-6')	09/26/24	4-6'	Excavated	<49.8	128 +	<49.8	128	<0.00199	<0.00199	0.0375	0.0046	0.0421	2,790
S-12 (4-7')	11/04/24	4-7'	Excavated	<50.0	788	<50.0	788	--	--	--	--	--	602
S-12 (4-9')	12/18/24	4-9'	In Situ	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	32.9
S-13 (0-4')	09/26/24	0-4'	Excavated	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	1,350
S-13 (0-4')	11/04/24	0-4'	Excavated	<49.9	402	<49.9	402	--	--	--	--	--	911
S-13 (0-4')	12/18/24	0-4'	In Situ	<50.0	<50.0	<50.0	<50.0	<0.00200	<000200	<0.00200	<0.00399	<0.00399	71.7
S-13 (4-6')	09/26/24	4-6'	Excavated	<49.7	2,010	<49.7	2,010	<0.00200	<0.00200	0.00692	0.0612	0.0681	6,700
S-13 (4-7')	11/04/24	4-7'	Excavated	<49.8	<49.8	<49.8	<49.8	--	--	--	--	--	791
S-13 (4-9')	12/18/24	4-9'	In Situ	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	65.6
S-14 (0-4')	09/26/24	0-4'	Excavated	<49.8	76.5 +	<49.8	76.5	<0.00199	<0.00199	<0.00199	<000398	<0.00398	733
S-14 (0-4')	11/04/24	0-4'	Excavated	<49.8	<49.8	<49.8	<49.8	--	--	--	--	--	650
S-14 (0-4')	12/18/24	0-4'	In Situ	<49.7	<49.7	<49.7	<49.7	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	55.8
S-14 (4-6')	09/26/24	4-6'	In Situ	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	565
S-15 (9')	02/25/25	9'	In Situ	<49.8	<49.8	<49.8	<49.8	<0.00200	<000200	<0.00200	<0.00399	<0.00399	30.3

Notes:

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

FIGURES

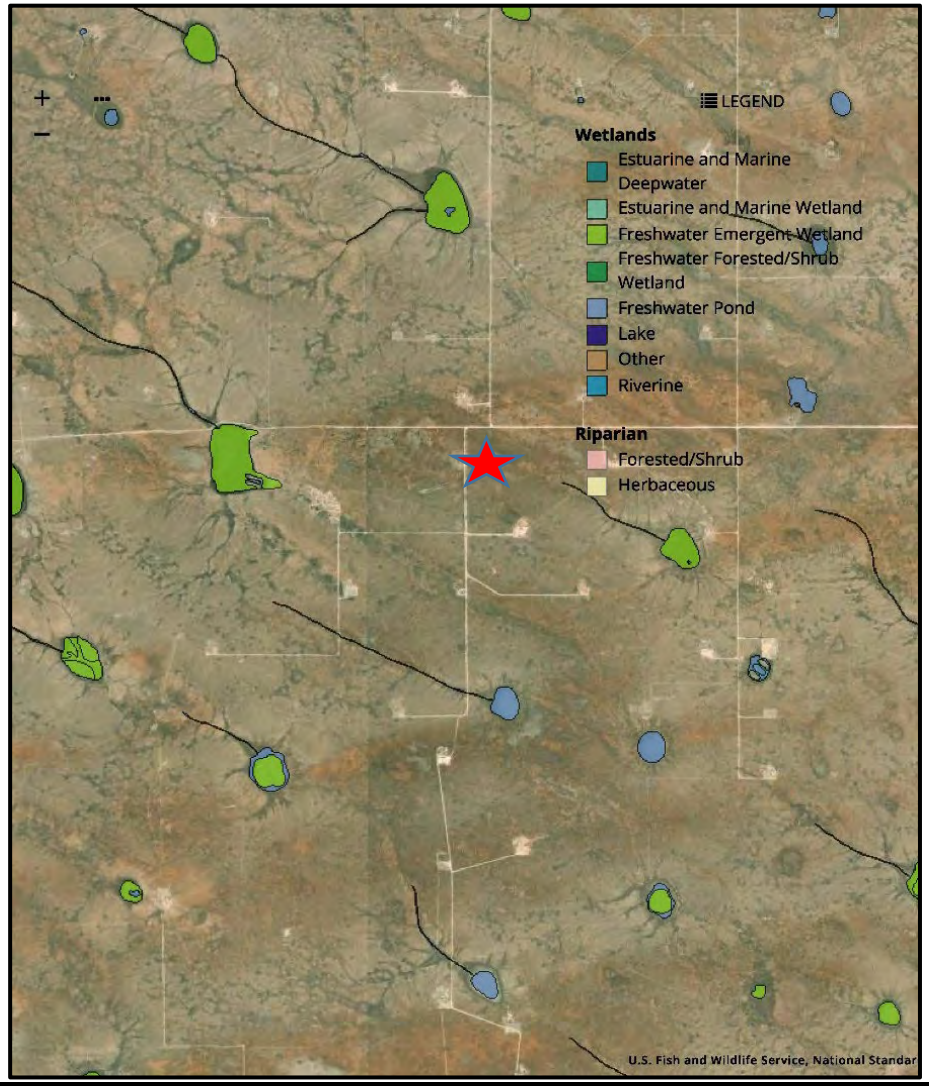
LEGEND: Site Location Base Map From Google Earth Pro	**Figure 1** **Site Location Map** Cambrian Management Chem State #001 Lea County, New Mexico	Drafted by: CC | Checked by: CC Draft: Jan. 25, 2025 GPS: 33.051671° -103.716388°	Grain Environmental



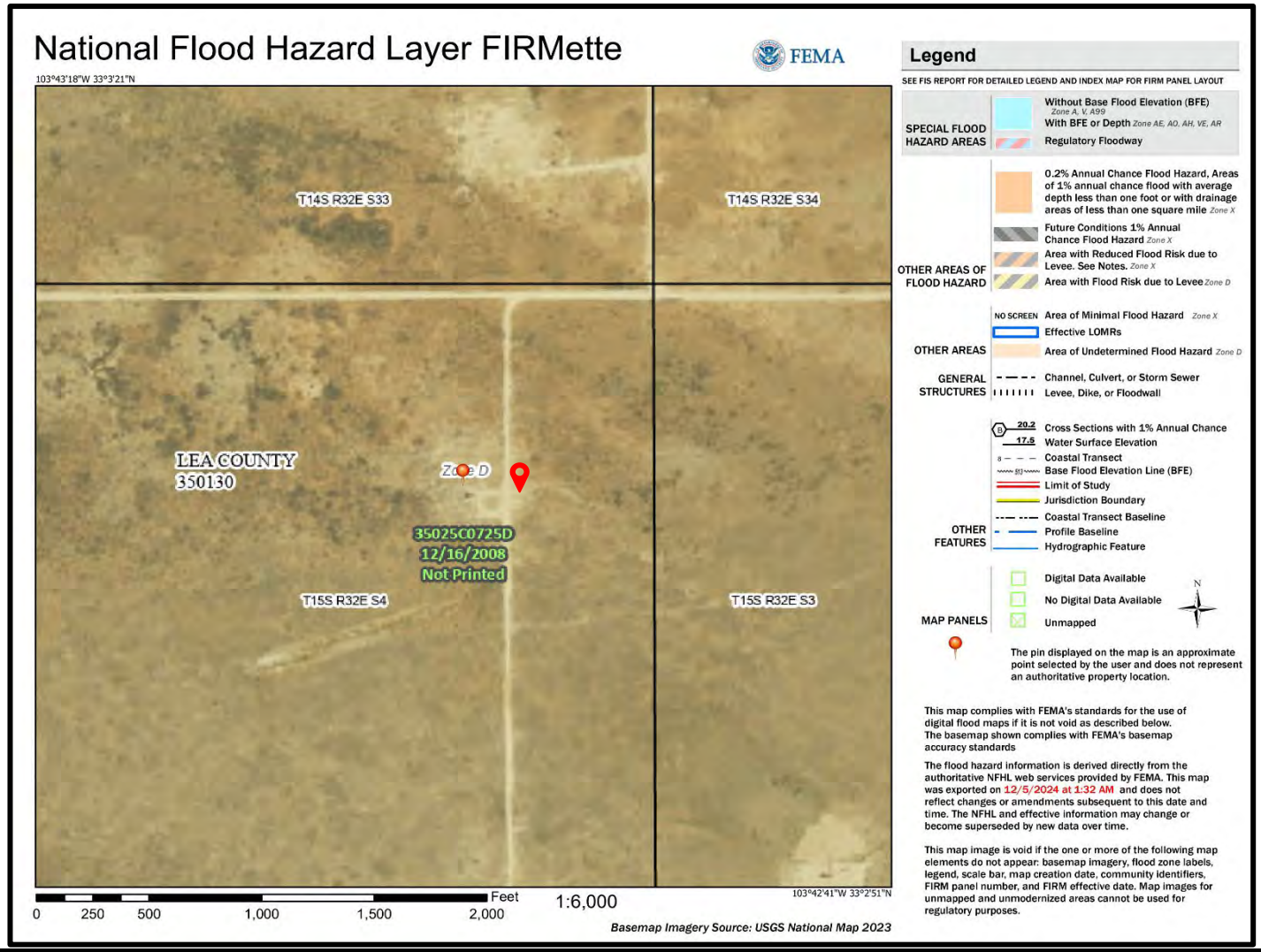
LEGEND: S-1 Sample Location With Sample Number. Excavation Boundary Base Map From Google Earth Pro	**Figure 2** **Soil Sample Analytical Results Map** Cambrian Management Chem State #001 Lea County, New Mexico	Drafted by: CC | Checked by: CC Draft: March 26, 2025 GPS: 33.051671° -103.716388°

Grain Environmental

LEGEND: Site Location Water Well Location Base Map From Google Earth Pro	**Figure 3** **Wellhead Protection Area Map** Cambrian Management Chem State #001 Lea County, New Mexico	Drafted by: CC | Checked by: CC Draft: Jan. 25, 2025 GPS: 33.051671° -103.716388°



LEGEND: Site Location Base Map From US Fish & Wildlife Service	**Figure 4** **National Wetlands Inventory Map** Cambrian Management Chem State #001 Lea County, New Mexico	Drafted by: CC | Checked by: CC Draft: Jan. 25, 2025 GPS: 33.051671° -103.716388°	Grain Environmental



LEGEND:

Site Location

Base Map From FEMA

Figure 5

FEMA Floodplain Map

Cambrian Management

Chem State #001

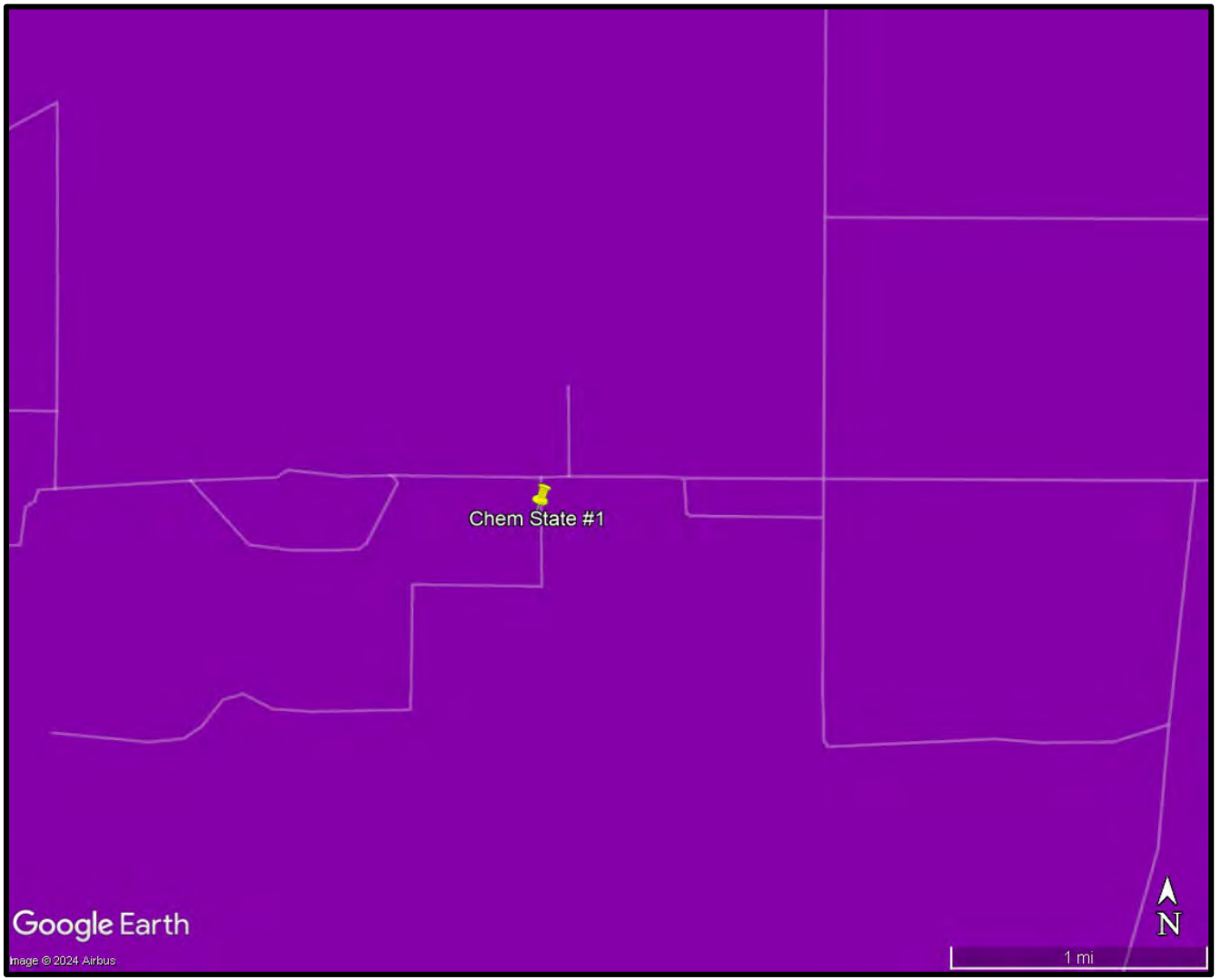
Lea County, New Mexico

Drafted by: CC | Checked by: CC

Draft: Jan. 25, 2025

GPS: 33.051671° -103.716388°

Grain Environmental



LEGEND: Low Karst Potential Medium Karst Potential High Karst Potential Base Map From Google Earth Pro and BLM	**Figure 6** **Karst Potential Map** Cambrian Management Chem State #001 Lea County, New Mexico	Drafted by: CC | Checked by: CC Draft: Jan. 25, 2025 GPS: 33.051671° -103.716388°

Appendix A: NMOCD Communication

Gmail Cindy Crain <cindy.crain@gmail.com>

The Oil Conservation Division (OCD) has rejected the application, Application ID: 424711

4 messages

OCDOnline@state.nm.us <OCDOnline@state.nm.us> Thu, Feb 6, 2025 at 12:16 PM
To: cindy.crain@gmail.com

To whom it may concern (c/o Cindy Crain for CAMBRIAN MANAGEMENT LTD),

The OCD has rejected the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2426158921,
for the following reasons:

- **Remediation closure denied for the following:**
- **1) Based on the information provided on Figure 2, the Soil Sample Analytical Results Map, the excavation measured approximately 700 square feet. Looking at the questions in the C-141 application, you answered "400" to "What is the estimated surface area (in square feet) that will be remediated". Per 19.15.29.12(D)1(c) NMAC, "without division approval, the responsible party may elect to perform a composite and grab sample plan where each composite sample is not representative of more than 200 square feet." Based on the information provided on Figure 2, an adequate number of base samples were not collected as OCD has not approved an alternative composite and grab sample plan for this incident.**
- **2) OCD notes that laboratory results from Stockpiles 1-4 indicate it was waste-containing per 19.15.29.13 NMAC. Explain whether or not this any of this soil was used for backfill. If so, it will need to be removed and taken to an OCD approved disposal facility.**
- **3) The laboratory results submitted on pg. 19-64 include sample names that do not correspond with the sample names presented in Figure 2 or Table 1. Explain.**
- **Resubmit an updated remediation closure report in 60 days, by 4/7/25.**

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 424711.
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,
Shelly Wells
Environmental Specialist-A
505-469-7520
Shelly.Wells@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> Sun, Feb 16, 2025 at 3:41 PM
To: "Wells, Shelly, EMNRD" <Shelly.Wells@emnrd.nm.gov>
Cc: "Bratcher, Michael, EMNRD" <mike.bratcher@emnrd.nm.gov>, Chris Gaddy <chris.gaddy@octane-energy.com>, "David, Deon W." <ddavid@nmslo.gov>, "Biernoff, Ari" <abiernoff@nmslo.gov>, "Heltman, Elaine G." <eheltman@nmslo.gov>, "Elliott, April L." <aelliott@nmslo.gov>, "Graeser, Christopher L." <cgraeser@nmslo.gov>, "Bisbey-Kuehn, Elizabeth A." <ebisbeykuehn@nmslo.gov>

Shelly,

Your denial of Closure at the Cambrian Management, Chem State #1 (Incident #nAPP2426158921) has been received, and I have a few questions/clarifications (provided below in red):

- **1) Based on the information provided on Figure 2, the Soil Sample Analytical Results Map, the excavation measured approximately 700 square feet. Looking at the questions in the C-141 application, you answered**

"400" to "What is the estimated surface area (in square feet) that will be remediated". Per 19.15.29.12(D)1(c) NMAC, "without division approval, the responsible party may elect to perform a composite and grab sample plan where each composite sample is not representative of more than 200 square feet." Based on the information provided on Figure 2, an adequate number of base samples were not collected as OCD has not approved an alternative composite and grab sample plan for this incident. The final excavation measured 15' x 18', and square footage reported on the C-141 should be 270. Based on the square footage, do additional samples need to be collected?

- **2) OCD notes that laboratory results from Stockpiles 1-4 indicate it was waste-containing per 19.15.29.13 NMAC. Explain whether or** not this any **of this soil was used for backfill. If so, it will need to be removed and taken to an OCD approved disposal facility. This well has been P&A'd, all caliche has been removed from the surface of the well pad, and the stockpile samples were collected from that caliche. As mentioned in section 4.5 Summary of Remediation Activities (p6) of the Closure Report,** all **stockpiled caliche was disposed at GM Inc.**
- **3) The laboratory results submitted on pg. 19-64 include sample names that do not correspond with the sample names presented in Figure 2 or Table 1. Explain. As the well has been P&A'd, Cambrian Management has been working with the State Land Office to close the site/lease. Soil investigation at the wellhead and on spots of barren vegetation located east and south of the well resulted in reporting 3 historical releases at Chem State #1 to the OCD (Incident #nAPP2426157644 - flowline to east of well, Incident #nAPP2426159828 - flowline to south of well, and this release at the wellhead [Incident # nAPP2426158921]). Remediation/sampling was conducted concurrently at each of the 3 releases, and some of the lab results submitted on pg. 19-64 correspond to the other 2 incident locations.**
- **Resubmit an updated remediation closure report in 60 days, by 4/7/25. Based on the information provided in this email, please let me know if additional samples need to be collected prior to submitting an updated remediation closure report. If samples do not need to be collected, will this information be accepted in lieu of an updated closure report, or does this information need to be provided in an updated remediation closure report?**

I appreciate your assistance! I would just like to be clear on OCD expectations prior to submitting a revised report (if necessary).

Thank you,
Cindy Crain
[Quoted text hidden]
--
Crain Environmental
2925 East 17th Street
Odessa, TX 79761
(575) 441-7244

Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov> Mon, Feb 17, 2025 at 10:56 AM
To: Cindy Crain <cindy.crain@gmail.com>
Cc: "Bratcher, Michael, EMNRD" <mike.bratcher@emnrd.nm.gov>, Chris Gaddy <chris.gaddy@octane-energy.com>, "David, Deon W." <ddavid@nmslo.gov>, "Biernoff, Ari" <abiernoff@nmslo.gov>, "Heltman, Elaine G." <eheltman@nmslo.gov>, "Elliott, April L." <aelliott@slo.state.nm.us>, "Graeser, Christopher L." <cgraeser@nmslo.gov>, "Bisbey-Kuehn, Elizabeth A." <ebisbeykuehn@nmslo.gov>

Good morning Cindy,

The excavation boundary on Figure 2 provided in the rejected remediation closure report should be updated to reflect the correct size of the excavation if indeed the final excavation measured 15' x 18'. Per 19.15.29.12(D)1(c) NMAC, "without division approval, the responsible party may elect to perform a composite and grab sample plan where each composite sample is not representative of more than 200 square feet." As an alternative sampling plan was not approved prior to excavation, yes more samples will need collected from the base of the excavation. These should be five-point composite samples, representing no more than 200 square feet.

An email will not be accepted in lieu of an updated remediation closure report which should be submitted online via OCD Permitting.

Sincerely,

Shelly

Shelly Wells * Environmental Specialist-Advanced

Environmental Bureau

EMNRD-Oil Conservation Division

1220 S. St. Francis Drive|Santa Fe, NM 87505

(505)469-7520 Shelly.Wells@emnrd.nm.gov

http://www.emnrd.state.nm.us/OCD/

From: Cindy Crain <cindy.crain@gmail.com>
Sent: Sunday, February 16, 2025 2:41 PM
To: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Chris Gaddy <chris.gaddy@octane-energy.com>; David, Deon W. <ddavid@nmslo.gov>; Biernoff, Ari <abiernoff@nmslo.gov>; Heltman, Elaine G. <eheltman@nmslo.gov>; Elliott, April L. <aelliott@slo.state.nm.us>; Graeser, Christopher L. <cgraeser@nmslo.gov>; Bisbey-Kuehn, Elizabeth A. <ebisbeykuehn@nmslo.gov>
Subject: [EXTERNAL] Fwd: The Oil Conservation Division (OCD) has rejected the application, Application ID: 424711

[Quoted text hidden]

Cindy Crain <cindy.crain@gmail.com> Mon, Feb 17, 2025 at 11:55 AM
To: OCDOnline@state.nm.us
Cc: Chris Gaddy <chris.gaddy@octane-energy.com>, "Biernoff, Ari" <abiernoff@nmslo.gov>, "Heltman, Elaine G." <eheltman@nmslo.gov>, "Elliott, April L." <aelliott@nmslo.gov>, "Graeser, Christopher L." <cgraeser@nmslo.gov>, "Bisbey-Kuehn, Elizabeth A." <ebisbeykuehn@nmslo.gov>, "David, Deon W." <ddavid@nmslo.gov>

Thank you, Shelly -

Following sampling notifications to the OCD and SLO, an additional sample will be collected from the bottom of the excavation and a revised report will be submitted to the OCD portal and the SLO before 4/7/25.

Sincerely,
Cindy Crain
[Quoted text hidden]
[Quoted text hidden]

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

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 3/28/2024 9:32:33 AM

JOB DESCRIPTION

Chem State #1
Lea Co., NM

JOB NUMBER

880-40932-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

my EOL

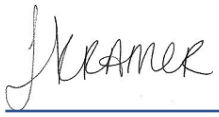
Eurofins Midland

Job Notes

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

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

Authorization



Generated
3/28/2024 9:32:33 AM

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

Client: Crain Environmental
Project/Site: Chem State #1

Laboratory Job ID: 880-40932-1
SDG: Lea Co., NM

Table of Contents

Definitions/Glossary

Client: Crain Environmental
Project/Site: Chem State #1

Job ID: 880-40932-1
SDG: Lea Co., NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
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.

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
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

Definitions/Glossary

Client: Crain Environmental
Project/Site: Chem State #1

Job ID: 880-40932-1
SDG: Lea Co., NM

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Crain Environmental
Project: Chem State #1

Job ID: 880-40932-1

Job ID: 880-40932-1 Eurofins Midland

Job Narrative
880-40932-1

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

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

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

Receipt
The samples were received on 3/15/2024 2:51 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.7°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: S-1 (1') (880-40932-1), S-1 (2') (880-40932-2), S-2 (1') (880-40932-3), S-2 (2') (880-40932-4), S-3 (1') (880-40932-5), S-3 (2') (880-40932-6), S-4 (1') (880-40932-7), S-4 (2') (880-40932-8), S-5 (1') (880-40932-9), S-5 (2') (880-40932-10), S-6 (1') (880-40932-11), S-6 (2') (880-40932-12), S-7 (1') (880-40932-13), S-7 (2') (880-40932-14), S-8 (1') (880-40932-15), S-8 (2') (880-40932-16), S-9 (1') (880-40932-17), S-9 (2') (880-40932-18), S-10 (1') (880-40932-19), S-10 (2') (880-40932-20) and T-1 (1') (880-40932-21).

GC VOA
Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-75818 and analytical batch 880-75949 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: S-1 (1') (880-40932-1) and S-1 (2') (880-40932-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-75854 and 880-75874 and analytical batch 880-76067 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-75874/2-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The method blank for preparation batch 880-75874 and analytical batch 880-76067 contained OII Range Organics (Over C28-C36) above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

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.

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

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

Client Sample Results

Client: Crain Environmental
Project/Site: Chem State #1

Job ID: 880-40932-1
SDG: Lea Co., NM

Client Sample ID: S-1 (1')

Lab Sample ID: 880-40932-1
Matrix: Solid
Date Collected: 03/12/24 14:10
Date Received: 03/15/24 14:51
Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.48		0.0996		mg/Kg		03/18/24 10:27	03/19/24 14:01	50
Toluene	17.4		0.0996		mg/Kg		03/18/24 10:27	03/19/24 14:01	50
Ethylbenzene	14.8		0.0996		mg/Kg		03/18/24 10:27	03/19/24 14:01	50
m-Xylene & p-Xylene	25.7		0.199		mg/Kg		03/18/24 10:27	03/19/24 14:01	50
o-Xylene	11.1		0.0996		mg/Kg		03/18/24 10:27	03/19/24 14:01	50
Xylenes, Total	36.8		0.199		mg/Kg		03/18/24 10:27	03/19/24 14:01	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*258*	*S1+*	*70 - 130*	*03/18/24 10:27*	*03/19/24 14:01*	*50*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*03/18/24 10:27*	*03/19/24 14:01*	*50*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	70.5		0.199		mg/Kg			03/19/24 14:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	14400		248		mg/Kg			03/21/24 00:11	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	2020		248		mg/Kg		03/18/24 12:54	03/21/24 00:11	5
Diesel Range Organics (Over C10-C28)	11800		248		mg/Kg		03/18/24 12:54	03/21/24 00:11	5
Oil Range Organics (Over C28-C36)	602		248		mg/Kg		03/18/24 12:54	03/21/24 00:11	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*117*		*70 - 130*	*03/18/24 12:54*	*03/21/24 00:11*	*5*
o-Terphenyl	*118*		*70 - 130*	*03/18/24 12:54*	*03/21/24 00:11*	*5*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8750		50.1		mg/Kg			03/19/24 18:04	10

Client Sample ID: S-1 (2')

Lab Sample ID: 880-40932-2
Matrix: Solid
Date Collected: 03/12/24 14:15
Date Received: 03/15/24 14:51
Sample Depth: 2'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	2.85		0.0994		mg/Kg		03/18/24 10:27	03/19/24 14:21	50
Toluene	29.9		0.496		mg/Kg		03/19/24 16:35	03/20/24 16:29	250
Ethylbenzene	22.6		0.496		mg/Kg		03/19/24 16:35	03/20/24 16:29	250
m-Xylene & p-Xylene	38.1		0.199		mg/Kg		03/18/24 10:27	03/19/24 14:21	50
o-Xylene	16.3		0.0994		mg/Kg		03/18/24 10:27	03/19/24 14:21	50
Xylenes, Total	54.4		0.199		mg/Kg		03/18/24 10:27	03/19/24 14:21	50

Client Sample Results

Client: Crain Environmental
Project/Site: Chem State #1

Job ID: 880-40932-1
SDG: Lea Co., NM

Client Sample ID: S-1 (2')

Lab Sample ID: 880-40932-2
Matrix: Solid
Date Collected: 03/12/24 14:15
Date Received: 03/15/24 14:51
Sample Depth: 2'

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*255*	*S1+*	*70 - 130*	*03/18/24 10:27*	*03/19/24 14:21*	*50*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*03/18/24 10:27*	*03/19/24 14:21*	*50*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**110**		0.496		mg/Kg			03/20/24 16:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**13800**		249		mg/Kg			03/21/24 00:32	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	**1670**		249		mg/Kg		03/18/24 12:54	03/21/24 00:32	5
Diesel Range Organics (Over C10-C28)	**11400**		249		mg/Kg		03/18/24 12:54	03/21/24 00:32	5
Oil Range Organics (Over C28-C36)	**681**		249		mg/Kg		03/18/24 12:54	03/21/24 00:32	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*113*		*70 - 130*	*03/18/24 12:54*	*03/21/24 00:32*	*5*
o-Terphenyl	*82*		*70 - 130*	*03/18/24 12:54*	*03/21/24 00:32*	*5*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6490**		50.2		mg/Kg			03/19/24 18:21	10

Client Sample ID: S-2 (1')

Lab Sample ID: 880-40932-3
Matrix: Solid
Date Collected: 03/12/24 14:25
Date Received: 03/15/24 14:51
Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/18/24 10:27	03/19/24 11:17	1
Toluene	**0.0191**	**F1**	0.00202		mg/Kg		03/18/24 10:27	03/19/24 11:17	1
Ethylbenzene	**0.0102**	**F1**	0.00202		mg/Kg		03/18/24 10:27	03/19/24 11:17	1
m-Xylene & p-Xylene	**0.0162**	**F2 F1**	0.00404		mg/Kg		03/18/24 10:27	03/19/24 11:17	1
o-Xylene	**0.00660**	**F2 F1**	0.00202		mg/Kg		03/18/24 10:27	03/19/24 11:17	1
Xylenes, Total	**0.0228**	**F2 F1**	0.00404		mg/Kg		03/18/24 10:27	03/19/24 11:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*78*		*70 - 130*	*03/18/24 10:27*	*03/19/24 11:17*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*03/18/24 10:27*	*03/19/24 11:17*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0521**		0.00404		mg/Kg			03/19/24 11:17	1

Client Sample Results

Client: Crain Environmental
Project/Site: Chem State #1

Job ID: 880-40932-1
SDG: Lea Co., NM

Client Sample ID: S-2 (1')

Date Collected: 03/12/24 14:25
Date Received: 03/15/24 14:51
Sample Depth: 1'

Lab Sample ID: 880-40932-3
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**603**		49.8		mg/Kg			03/21/24 01:15	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		03/18/24 12:54	03/21/24 01:15	1
Diesel Range Organics (Over C10-C28)	**546**		49.8		mg/Kg		03/18/24 12:54	03/21/24 01:15	1
Oil Range Organics (Over C28-C36)	**56.8**		49.8		mg/Kg		03/18/24 12:54	03/21/24 01:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*86*		*70 - 130*	*03/18/24 12:54*	*03/21/24 01:15*	*1*
o-Terphenyl	*83*		*70 - 130*	*03/18/24 12:54*	*03/21/24 01:15*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**198**		5.01		mg/Kg			03/19/24 18:26	1

Client Sample ID: S-2 (2')

Date Collected: 03/12/24 14:27
Date Received: 03/15/24 14:51
Sample Depth: 2'

Lab Sample ID: 880-40932-4
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00225**		0.00201		mg/Kg		03/18/24 10:27	03/19/24 11:37	1
Toluene	**0.0144**		0.00201		mg/Kg		03/18/24 10:27	03/19/24 11:37	1
Ethylbenzene	**0.00296**		0.00201		mg/Kg		03/18/24 10:27	03/19/24 11:37	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/18/24 10:27	03/19/24 11:37	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/18/24 10:27	03/19/24 11:37	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/18/24 10:27	03/19/24 11:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*03/18/24 10:27*	*03/19/24 11:37*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*03/18/24 10:27*	*03/19/24 11:37*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0196**		0.00402		mg/Kg			03/19/24 11:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**595**		49.7		mg/Kg			03/21/24 00:54	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		03/18/24 12:54	03/21/24 00:54	1
Diesel Range Organics (Over C10-C28)	**534**		49.7		mg/Kg		03/18/24 12:54	03/21/24 00:54	1

Eurofins Midland

Client Sample Results

Client: Crain Environmental
Project/Site: Chem State #1

Job ID: 880-40932-1
SDG: Lea Co., NM

Client Sample ID: S-2 (2')

Lab Sample ID: 880-40932-4
Matrix: Solid
Date Collected: 03/12/24 14:27
Date Received: 03/15/24 14:51
Sample Depth: 2'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	**61.2**		49.7		mg/Kg		03/18/24 12:54	03/21/24 00:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*03/18/24 12:54*	*03/21/24 00:54*	*1*
o-Terphenyl	*85*		*70 - 130*	*03/18/24 12:54*	*03/21/24 00:54*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**212**		5.02		mg/Kg			03/19/24 18:32	1

Client Sample ID: S-3 (1')

Lab Sample ID: 880-40932-5
Matrix: Solid
Date Collected: 03/12/24 12:35
Date Received: 03/15/24 14:51
Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00550**		0.00198		mg/Kg		03/18/24 10:27	03/19/24 11:58	1
Toluene	**0.0153**		0.00198		mg/Kg		03/18/24 10:27	03/19/24 11:58	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/18/24 10:27	03/19/24 11:58	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		03/18/24 10:27	03/19/24 11:58	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/18/24 10:27	03/19/24 11:58	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		03/18/24 10:27	03/19/24 11:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*03/18/24 10:27*	*03/19/24 11:58*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*03/18/24 10:27*	*03/19/24 11:58*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0208**		0.00397		mg/Kg			03/19/24 11:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**556**		49.8		mg/Kg			03/21/24 01:36	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		03/18/24 12:54	03/21/24 01:36	1
Diesel Range Organics (Over C10-C28)	**496**		49.8		mg/Kg		03/18/24 12:54	03/21/24 01:36	1
Oll Range Organics (Over C28-C36)	**59.5**		49.8		mg/Kg		03/18/24 12:54	03/21/24 01:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*03/18/24 12:54*	*03/21/24 01:36*	*1*
o-Terphenyl	*83*		*70 - 130*	*03/18/24 12:54*	*03/21/24 01:36*	*1*

Client Sample Results

Client: Crain Environmental
Project/Site: Chem State #1

Job ID: 880-40932-1
SDG: Lea Co., NM

Client Sample ID: S-3 (1')

Lab Sample ID: 880-40932-5
Matrix: Solid
Date Collected: 03/12/24 12:35
Date Received: 03/15/24 14:51
Sample Depth: 1'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	54.9		4.99		mg/Kg			03/19/24 18:37	1

Client Sample ID: S-3 (2')

Lab Sample ID: 880-40932-6
Matrix: Solid
Date Collected: 03/12/24 12:38
Date Received: 03/15/24 14:51
Sample Depth: 2'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00303		0.00200		mg/Kg		03/18/24 10:27	03/19/24 12:18	1
Toluene	0.00589		0.00200		mg/Kg		03/18/24 10:27	03/19/24 12:18	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/18/24 10:27	03/19/24 12:18	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/18/24 10:27	03/19/24 12:18	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/18/24 10:27	03/19/24 12:18	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/18/24 10:27	03/19/24 12:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*03/18/24 10:27*	*03/19/24 12:18*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*03/18/24 10:27*	*03/19/24 12:18*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00892		0.00400		mg/Kg			03/19/24 12:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	571		49.8		mg/Kg			03/21/24 02:18	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		03/18/24 12:54	03/21/24 02:18	1
Diesel Range Organics (Over C10-C28)	513		49.8		mg/Kg		03/18/24 12:54	03/21/24 02:18	1
Oil Range Organics (Over C28-C36)	57.5		49.8		mg/Kg		03/18/24 12:54	03/21/24 02:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 130*	*03/18/24 12:54*	*03/21/24 02:18*	*1*
o-Terphenyl	*80*		*70 - 130*	*03/18/24 12:54*	*03/21/24 02:18*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	58.5		4.99		mg/Kg			03/19/24 18:43	1

Client Sample Results

Client: Crain Environmental
Project/Site: Chem State #1

Job ID: 880-40932-1
SDG: Lea Co., NM

Client Sample ID: S-4 (1')

Lab Sample ID: 880-40932-7
Matrix: Solid
Date Collected: 03/12/24 14:42
Date Received: 03/15/24 14:51
Sample Depth: 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		03/18/24 10:27	03/19/24 12:39	1
Toluene	**0.0146**		0.00200		mg/Kg		03/18/24 10:27	03/19/24 12:39	1
Ethylbenzene	**0.00297**		0.00200		mg/Kg		03/18/24 10:27	03/19/24 12:39	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/18/24 10:27	03/19/24 12:39	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/18/24 10:27	03/19/24 12:39	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/18/24 10:27	03/19/24 12:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*03/18/24 10:27*	*03/19/24 12:39*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*03/18/24 10:27*	*03/19/24 12:39*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0176**		0.00400		mg/Kg			03/19/24 12:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**356**		49.6		mg/Kg			03/21/24 02:39	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		03/18/24 12:54	03/21/24 02:39	1
Diesel Range Organics (Over C10-C28)	**356**		49.6		mg/Kg		03/18/24 12:54	03/21/24 02:39	1
OII Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		03/18/24 12:54	03/21/24 02:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*86*		*70 - 130*	*03/18/24 12:54*	*03/21/24 02:39*	*1*
o-Terphenyl	*82*		*70 - 130*	*03/18/24 12:54*	*03/21/24 02:39*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**55.9**		4.98		mg/Kg			03/19/24 18:48	1

Client Sample ID: S-4 (2')

Lab Sample ID: 880-40932-8
Matrix: Solid
Date Collected: 03/12/24 14:45
Date Received: 03/15/24 14:51
Sample Depth: 2'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00551**		0.00201		mg/Kg		03/18/24 10:27	03/19/24 12:59	1
Toluene	**0.0248**		0.00201		mg/Kg		03/18/24 10:27	03/19/24 12:59	1
Ethylbenzene	**0.00365**		0.00201		mg/Kg		03/18/24 10:27	03/19/24 12:59	1
m-Xylene & p-Xylene	**0.00428**		0.00402		mg/Kg		03/18/24 10:27	03/19/24 12:59	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/18/24 10:27	03/19/24 12:59	1
Xylenes, Total	**0.00428**		0.00402		mg/Kg		03/18/24 10:27	03/19/24 12:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*03/18/24 10:27*	*03/19/24 12:59*	*1*

Client Sample Results

Client: Crain Environmental
Project/Site: Chem State #1

Job ID: 880-40932-1
SDG: Lea Co., NM

Client Sample ID: S-4 (2')

Lab Sample ID: 880-40932-8
Matrix: Solid
Date Collected: 03/12/24 14:45
Date Received: 03/15/24 14:51
Sample Depth: 2'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*03/18/24 10:27*	*03/19/24 12:59*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0382**		0.00402		mg/Kg			03/19/24 12:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**516**		49.9		mg/Kg			03/21/24 01:57	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		03/18/24 12:54	03/21/24 01:57	1
Diesel Range Organics (Over C10-C28)	**460**		49.9		mg/Kg		03/18/24 12:54	03/21/24 01:57	1
Oil Range Organics (Over C28-C36)	**56.2**		49.9		mg/Kg		03/18/24 12:54	03/21/24 01:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*91*		*70 - 130*	*03/18/24 12:54*	*03/21/24 01:57*	*1*
o-Terphenyl	*86*		*70 - 130*	*03/18/24 12:54*	*03/21/24 01:57*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**79.3**		5.05		mg/Kg			03/19/24 19:05	1

Client Sample ID: S-5 (1')

Lab Sample ID: 880-40932-9
Matrix: Solid
Date Collected: 03/12/24 14:55
Date Received: 03/15/24 14:51
Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/18/24 10:27	03/19/24 13:20	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/18/24 10:27	03/19/24 13:20	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/18/24 10:27	03/19/24 13:20	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		03/18/24 10:27	03/19/24 13:20	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/18/24 10:27	03/19/24 13:20	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		03/18/24 10:27	03/19/24 13:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*79*		*70 - 130*	*03/18/24 10:27*	*03/19/24 13:20*	*1*
1,4-Difluorobenzene (Surr)	*79*		*70 - 130*	*03/18/24 10:27*	*03/19/24 13:20*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			03/19/24 13:20	1

Client Sample Results

Client: Crain Environmental
Project/Site: Chem State #1

Job ID: 880-40932-1
SDG: Lea Co., NM

Client Sample ID: S-5 (1')

Date Collected: 03/12/24 14:55
Date Received: 03/15/24 14:51
Sample Depth: 1'

Lab Sample ID: 880-40932-9
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/20/24 20:41	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	<50.0	U	50.0		mg/Kg		03/18/24 12:54	03/20/24 20:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/18/24 12:54	03/20/24 20:41	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/18/24 12:54	03/20/24 20:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*03/18/24 12:54*	*03/20/24 20:41*	*1*
o-Terphenyl	*88*		*70 - 130*	*03/18/24 12:54*	*03/20/24 20:41*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**67.5**		4.98		mg/Kg			03/19/24 19:10	1

Client Sample ID: S-5 (2')

Date Collected: 03/12/24 14:57
Date Received: 03/15/24 14:51
Sample Depth: 2'

Lab Sample ID: 880-40932-10
Matrix: Solid

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		03/18/24 10:27	03/19/24 13:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/18/24 10:27	03/19/24 13:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/18/24 10:27	03/19/24 13:40	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		03/18/24 10:27	03/19/24 13:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/18/24 10:27	03/19/24 13:40	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		03/18/24 10:27	03/19/24 13:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*81*		*70 - 130*	*03/18/24 10:27*	*03/19/24 13:40*	*1*
1,4-Difluorobenzene (Surr)	*76*		*70 - 130*	*03/18/24 10:27*	*03/19/24 13:40*	*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			03/19/24 13:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/20/24 21:03	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	<50.0	U	50.0		mg/Kg		03/18/24 12:54	03/20/24 21:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/18/24 12:54	03/20/24 21:03	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/18/24 12:54	03/20/24 21:03	1

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Client Sample Results

Client: Crain Environmental
Project/Site: Chem State #1

Job ID: 880-40932-1
SDG: Lea Co., NM

Client Sample ID: S-5 (2')

Lab Sample ID: 880-40932-10
Matrix: Solid
Date Collected: 03/12/24 14:57
Date Received: 03/15/24 14:51
Sample Depth: 2'

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*85*		*70 - 130*	*03/18/24 12:54*	*03/20/24 21:03*	*1*
o-Terphenyl	*83*		*70 - 130*	*03/18/24 12:54*	*03/20/24 21:03*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**60.3**		5.00		mg/Kg			03/19/24 19:27	1

Client Sample ID: S-6 (1')

Lab Sample ID: 880-40932-11
Matrix: Solid
Date Collected: 03/12/24 15:02
Date Received: 03/15/24 14:51
Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/18/24 10:27	03/19/24 15:44	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/18/24 10:27	03/19/24 15:44	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/18/24 10:27	03/19/24 15:44	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/18/24 10:27	03/19/24 15:44	1
o-Xylene	**0.00232**		0.00199		mg/Kg		03/18/24 10:27	03/19/24 15:44	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/18/24 10:27	03/19/24 15:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*	*03/18/24 10:27*	*03/19/24 15:44*	*1*
1,4-Difluorobenzene (Surr)	*77*		*70 - 130*	*03/18/24 10:27*	*03/19/24 15:44*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/19/24 15:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/20/24 21:24	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	<50.0	U	50.0		mg/Kg		03/18/24 12:54	03/20/24 21:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/18/24 12:54	03/20/24 21:24	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/18/24 12:54	03/20/24 21:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*86*		*70 - 130*	*03/18/24 12:54*	*03/20/24 21:24*	*1*
o-Terphenyl	*85*		*70 - 130*	*03/18/24 12:54*	*03/20/24 21:24*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**60.3**		5.00		mg/Kg			03/19/24 19:32	1

Client Sample Results

Client: Crain Environmental
Project/Site: Chem State #1

Job ID: 880-40932-1
SDG: Lea Co., NM

Client Sample ID: S-6 (2')

Date Collected: 03/12/24 15:06
Date Received: 03/15/24 14:51
Sample Depth: 2'

Lab Sample ID: 880-40932-12
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		03/18/24 10:27	03/19/24 16:04	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/18/24 10:27	03/19/24 16:04	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/18/24 10:27	03/19/24 16:04	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		03/18/24 10:27	03/19/24 16:04	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/18/24 10:27	03/19/24 16:04	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		03/18/24 10:27	03/19/24 16:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*03/18/24 10:27*	*03/19/24 16:04*	*1*
1,4-Difluorobenzene (Surr)	*78*		*70 - 130*	*03/18/24 10:27*	*03/19/24 16:04*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			03/19/24 16:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/20/24 21:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/18/24 12:54	03/20/24 21:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/18/24 12:54	03/20/24 21:45	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/18/24 12:54	03/20/24 21:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*03/18/24 12:54*	*03/20/24 21:45*	*1*
o-Terphenyl	*93*		*70 - 130*	*03/18/24 12:54*	*03/20/24 21:45*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**51.8**		5.00		mg/Kg			03/19/24 19:38	1

Client Sample ID: S-7 (1')

Date Collected: 03/12/24 15:12
Date Received: 03/15/24 14:51
Sample Depth: 1'

Lab Sample ID: 880-40932-13
Matrix: Solid

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		03/18/24 10:27	03/19/24 16:25	1
Toluene	**0.00203**		0.00200		mg/Kg		03/18/24 10:27	03/19/24 16:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/18/24 10:27	03/19/24 16:25	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/18/24 10:27	03/19/24 16:25	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/18/24 10:27	03/19/24 16:25	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/18/24 10:27	03/19/24 16:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*03/18/24 10:27*	*03/19/24 16:25*	*1*

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Client Sample Results

Client: Crain Environmental
Project/Site: Chem State #1

Job ID: 880-40932-1
SDG: Lea Co., NM

Client Sample ID: S-7 (1')

Lab Sample ID: 880-40932-13
Matrix: Solid
Date Collected: 03/12/24 15:12
Date Received: 03/15/24 14:51
Sample Depth: 1'

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*78*		*70 - 130*	*03/18/24 10:27*	*03/19/24 16:25*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			03/19/24 16:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**394**		49.9		mg/Kg			03/21/24 03:00	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		03/18/24 12:54	03/21/24 03:00	1
Diesel Range Organics (Over C10-C28)	**394**		49.9		mg/Kg		03/18/24 12:54	03/21/24 03:00	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/18/24 12:54	03/21/24 03:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*03/18/24 12:54*	*03/21/24 03:00*	*1*
o-Terphenyl	*93*		*70 - 130*	*03/18/24 12:54*	*03/21/24 03:00*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**75.8**		5.00		mg/Kg			03/19/24 19:44	1

Client Sample ID: S-7 (2')

Lab Sample ID: 880-40932-14
Matrix: Solid
Date Collected: 03/12/24 15:15
Date Received: 03/15/24 14:51
Sample Depth: 2'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		03/18/24 10:27	03/19/24 16:45	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/18/24 10:27	03/19/24 16:45	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/18/24 10:27	03/19/24 16:45	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/18/24 10:27	03/19/24 16:45	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/18/24 10:27	03/19/24 16:45	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/18/24 10:27	03/19/24 16:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*		*70 - 130*	*03/18/24 10:27*	*03/19/24 16:45*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*03/18/24 10:27*	*03/19/24 16:45*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			03/19/24 16:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**162**		49.8		mg/Kg			03/20/24 22:26	1

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Client Sample Results

Client: Crain Environmental
Project/Site: Chem State #1

Job ID: 880-40932-1
SDG: Lea Co., NM

Client Sample ID: S-7 (2')

Lab Sample ID: 880-40932-14
Matrix: Solid
Date Collected: 03/12/24 15:15
Date Received: 03/15/24 14:51
Sample Depth: 2'

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		03/18/24 12:54	03/20/24 22:26	1
Diesel Range Organics (Over C10-C28)	**162**		49.8		mg/Kg		03/18/24 12:54	03/20/24 22:26	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/18/24 12:54	03/20/24 22:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*03/18/24 12:54*	*03/20/24 22:26*	*1*
o-Terphenyl	*99*		*70 - 130*	*03/18/24 12:54*	*03/20/24 22:26*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**92.5**		4.98		mg/Kg			03/19/24 19:49	1

Client Sample ID: S-8 (1')

Lab Sample ID: 880-40932-15
Matrix: Solid
Date Collected: 03/12/24 15:19
Date Received: 03/15/24 14:51
Sample Depth: 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		03/19/24 16:35	03/20/24 19:01	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/19/24 16:35	03/20/24 19:01	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/19/24 16:35	03/20/24 19:01	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		03/19/24 16:35	03/20/24 19:01	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/19/24 16:35	03/20/24 19:01	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		03/19/24 16:35	03/20/24 19:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*03/19/24 16:35*	*03/20/24 19:01*	*1*
1,4-Difluorobenzene (Surr)	*118*		*70 - 130*	*03/19/24 16:35*	*03/20/24 19:01*	*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			03/20/24 19:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			03/20/24 22:05	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		03/18/24 12:54	03/20/24 22:05	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		03/18/24 12:54	03/20/24 22:05	1
OII Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		03/18/24 12:54	03/20/24 22:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*03/18/24 12:54*	*03/20/24 22:05*	*1*
o-Terphenyl	*91*		*70 - 130*	*03/18/24 12:54*	*03/20/24 22:05*	*1*

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Client Sample Results

Client: Crain Environmental
Project/Site: Chem State #1

Job ID: 880-40932-1
SDG: Lea Co., NM

Client Sample ID: S-8 (1')

Lab Sample ID: 880-40932-15
Matrix: Solid
Date Collected: 03/12/24 15:19
Date Received: 03/15/24 14:51
Sample Depth: 1'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	51.1		4.95		mg/Kg			03/19/24 19:55	1

Client Sample ID: S-8 (2')

Lab Sample ID: 880-40932-16
Matrix: Solid
Date Collected: 03/12/24 15:22
Date Received: 03/15/24 14:51
Sample Depth: 2'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/19/24 16:35	03/20/24 19:21	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/19/24 16:35	03/20/24 19:21	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/19/24 16:35	03/20/24 19:21	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/19/24 16:35	03/20/24 19:21	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/19/24 16:35	03/20/24 19:21	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/19/24 16:35	03/20/24 19:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*03/19/24 16:35*	*03/20/24 19:21*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*03/19/24 16:35*	*03/20/24 19:21*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/20/24 19:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/20/24 19:38	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	<50.0	U	50.0		mg/Kg		03/18/24 12:54	03/20/24 19:38	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/18/24 12:54	03/20/24 19:38	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/18/24 12:54	03/20/24 19:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*03/18/24 12:54*	*03/20/24 19:38*	*1*
o-Terphenyl	*95*		*70 - 130*	*03/18/24 12:54*	*03/20/24 19:38*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	262		4.96		mg/Kg			03/19/24 20:00	1

Client Sample Results

Client: Crain Environmental
Project/Site: Chem State #1

Job ID: 880-40932-1
SDG: Lea Co., NM

Client Sample ID: S-9 (1')

Lab Sample ID: 880-40932-17
Matrix: Solid
Date Collected: 03/12/24 15:27
Date Received: 03/15/24 14:51
Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		03/19/24 16:35	03/20/24 19:42	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/19/24 16:35	03/20/24 19:42	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/19/24 16:35	03/20/24 19:42	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		03/19/24 16:35	03/20/24 19:42	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/19/24 16:35	03/20/24 19:42	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		03/19/24 16:35	03/20/24 19:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*	*03/19/24 16:35*	*03/20/24 19:42*	*1*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*	*03/19/24 16:35*	*03/20/24 19:42*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			03/20/24 19:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**90.0**		49.5		mg/Kg			03/20/24 22:47	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	<49.5	U	49.5		mg/Kg		03/18/24 12:54	03/20/24 22:47	1
Diesel Range Organics (Over C10-C28)	**90.0**		49.5		mg/Kg		03/18/24 12:54	03/20/24 22:47	1
OII Range Organics (Over C28-C36)	<49.5	U	49.5		mg/Kg		03/18/24 12:54	03/20/24 22:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*108*		*70 - 130*	*03/18/24 12:54*	*03/20/24 22:47*	*1*
o-Terphenyl	*111*		*70 - 130*	*03/18/24 12:54*	*03/20/24 22:47*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**498**		4.97		mg/Kg			03/19/24 15:06	1

Client Sample ID: S-9 (2')

Lab Sample ID: 880-40932-18
Matrix: Solid
Date Collected: 03/12/24 15:30
Date Received: 03/15/24 14:51
Sample Depth: 2'

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		03/19/24 16:35	03/20/24 20:02	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/19/24 16:35	03/20/24 20:02	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/19/24 16:35	03/20/24 20:02	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/19/24 16:35	03/20/24 20:02	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/19/24 16:35	03/20/24 20:02	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/19/24 16:35	03/20/24 20:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*03/19/24 16:35*	*03/20/24 20:02*	*1*

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Client Sample Results

Client: Crain Environmental
Project/Site: Chem State #1

Job ID: 880-40932-1
SDG: Lea Co., NM

Client Sample ID: S-9 (2')

Lab Sample ID: 880-40932-18
Matrix: Solid
Date Collected: 03/12/24 15:30
Date Received: 03/15/24 14:51
Sample Depth: 2'

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*03/19/24 16:35*	*03/20/24 20:02*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			03/20/24 20:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**267**		50.0		mg/Kg			03/21/24 03:21	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	<50.0	U	50.0		mg/Kg		03/18/24 12:54	03/21/24 03:21	1
Diesel Range Organics (Over C10-C28)	**267**		50.0		mg/Kg		03/18/24 12:54	03/21/24 03:21	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/18/24 12:54	03/21/24 03:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*03/18/24 12:54*	*03/21/24 03:21*	*1*
o-Terphenyl	*88*		*70 - 130*	*03/18/24 12:54*	*03/21/24 03:21*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**192**		4.96		mg/Kg			03/19/24 15:28	1

Client Sample ID: S-10 (1')

Lab Sample ID: 880-40932-19
Matrix: Solid
Date Collected: 03/12/24 15:34
Date Received: 03/15/24 14:51
Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		03/19/24 16:35	03/20/24 20:22	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/19/24 16:35	03/20/24 20:22	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/19/24 16:35	03/20/24 20:22	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/19/24 16:35	03/20/24 20:22	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/19/24 16:35	03/20/24 20:22	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/19/24 16:35	03/20/24 20:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*03/19/24 16:35*	*03/20/24 20:22*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*03/19/24 16:35*	*03/20/24 20:22*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			03/20/24 20:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			03/20/24 11:49	1

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Client Sample Results

Client: Crain Environmental
Project/Site: Chem State #1

Job ID: 880-40932-1
SDG: Lea Co., NM

Client Sample ID: S-10 (1')

Lab Sample ID: 880-40932-19
Matrix: Solid
Date Collected: 03/12/24 15:34
Date Received: 03/15/24 14:51
Sample Depth: 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		03/18/24 13:00	03/20/24 11:49	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		03/18/24 13:00	03/20/24 11:49	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/18/24 13:00	03/20/24 11:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*03/18/24 13:00*	*03/20/24 11:49*	*1*
o-Terphenyl	*108*		*70 - 130*	*03/18/24 13:00*	*03/20/24 11:49*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**85.8**		4.97		mg/Kg			03/19/24 15:35	1

Client Sample ID: S-10 (2')

Lab Sample ID: 880-40932-20
Matrix: Solid
Date Collected: 03/12/24 15:38
Date Received: 03/15/24 14:51
Sample Depth: 2'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/19/24 16:35	03/20/24 20:43	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/19/24 16:35	03/20/24 20:43	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/19/24 16:35	03/20/24 20:43	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		03/19/24 16:35	03/20/24 20:43	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/19/24 16:35	03/20/24 20:43	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		03/19/24 16:35	03/20/24 20:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*03/19/24 16:35*	*03/20/24 20:43*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*03/19/24 16:35*	*03/20/24 20:43*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			03/20/24 20:43	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			03/20/24 12:10	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		03/18/24 13:00	03/20/24 12:10	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/18/24 13:00	03/20/24 12:10	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/18/24 13:00	03/20/24 12:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 130*	*03/18/24 13:00*	*03/20/24 12:10*	*1*
o-Terphenyl	*93*		*70 - 130*	*03/18/24 13:00*	*03/20/24 12:10*	*1*

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Client Sample Results

Client: Crain Environmental
Project/Site: Chem State #1

Job ID: 880-40932-1
SDG: Lea Co., NM

Client Sample ID: S-10 (2')

Lab Sample ID: 880-40932-20
Matrix: Solid
Date Collected: 03/12/24 15:38
Date Received: 03/15/24 14:51
Sample Depth: 2'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	173		4.98		mg/Kg			03/19/24 15:43	1

Client Sample ID: T-1 (1')

Lab Sample ID: 880-40932-21
Matrix: Solid
Date Collected: 03/12/24 14:08
Date Received: 03/15/24 14:51
Sample Depth: 1'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	70.5		5.02		mg/Kg			03/19/24 15:50	1

Method: LA 29B SAR - Sodium Adsorption Ratio

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium Adsorption Ratio	<0.100	U	0.100		NONE		03/24/24 19:38	03/28/24 09:16	1
Exchangeable Sodium Percentage	<0.100	U	0.100		%		03/24/24 19:38	03/28/24 09:16	1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	7.5	HF			SU			03/22/24 13:10	1
Temperature (SW846 9045D)	20.6	HF			Deg. C			03/22/24 13:10	1
Electrical Conductivity (SM 2510B)	2.55		0.0100		ds/m			03/27/24 14:02	1

Surrogate Summary

Client: Crain Environmental
Project/Site: Chem State #1

Job ID: 880-40932-1
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)
880-40932-1	S-1 (1')	258 S1+	97
880-40932-2	S-1 (2')	255 S1+	94
880-40932-3	S-2 (1')	78	95
880-40932-3 MS	S-2 (1')	113	109
880-40932-3 MSD	S-2 (1')	90	113
880-40932-4	S-2 (2')	95	89
880-40932-5	S-3 (1')	91	87
880-40932-6	S-3 (2')	91	86
880-40932-7	S-4 (1')	90	89
880-40932-8	S-4 (2')	96	91
880-40932-9	S-5 (1')	79	79
880-40932-10	S-5 (2')	81	76
880-40932-11	S-6 (1')	85	77
880-40932-12	S-6 (2')	89	78
880-40932-13	S-7 (1')	93	78
880-40932-14	S-7 (2')	82	91
880-40932-15	S-8 (1')	109	118
880-40932-16	S-8 (2')	112	111
880-40932-17	S-9 (1')	121	113
880-40932-18	S-9 (2')	113	108
880-40932-19	S-10 (1')	118	112
880-40932-20	S-10 (2')	110	102
LCS 880-75818/1-A	Lab Control Sample	86	110
LCS 880-75843/1-B	Lab Control Sample	102	99
LCSD 880-75818/2-A	Lab Control Sample Dup	112	114
LCSD 880-75843/2-B	Lab Control Sample Dup	97	102
MB 880-75818/5-A	Method Blank	71	92
MB 880-75843/5-B	Method Blank	126	127

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)
880-40932-1	S-1 (1')	117	118
880-40932-2	S-1 (2')	113	82
880-40932-3	S-2 (1')	86	83
880-40932-4	S-2 (2')	93	85
880-40932-5	S-3 (1')	89	83
880-40932-6	S-3 (2')	84	80
880-40932-7	S-4 (1')	86	82
880-40932-8	S-4 (2')	91	86
880-40932-9	S-5 (1')	89	88
880-40932-10	S-5 (2')	85	83
880-40932-11	S-6 (1')	86	85

Surrogate Summary

Client: Crain Environmental
Project/Site: Chem State #1

Job ID: 880-40932-1
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 (70-130)	OTPH1 (70-130)
880-40932-12	S-6 (2')	95	93
880-40932-13	S-7 (1')	95	93
880-40932-14	S-7 (2')	99	99
880-40932-15	S-8 (1')	92	91
880-40932-16	S-8 (2')	95	95
880-40932-16 MS	S-8 (2')	98	84
880-40932-16 MSD	S-8 (2')	91	81
880-40932-17	S-9 (1')	108	111
880-40932-18	S-9 (2')	89	88
880-40932-19	S-10 (1')	106	108
880-40932-20	S-10 (2')	91	93
LCS 880-75854/2-A	Lab Control Sample	112	127
LCS 880-75874/2-A	Lab Control Sample	114	132 S1+
LCSD 880-75854/3-A	Lab Control Sample Dup	93	99
LCSD 880-75874/3-A	Lab Control Sample Dup	95	104
MB 880-75854/1-A	Method Blank	174 S1+	195 S1+
MB 880-75874/1-A	Method Blank	139 S1+	155 S1+

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Crain Environmental
Project/Site: Chem State #1

Job ID: 880-40932-1
SDG: Lea Co., NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-75818/5-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 75949 — **Prep Batch: 75818**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/18/24 10:27	03/19/24 10:55	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/18/24 10:27	03/19/24 10:55	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/18/24 10:27	03/19/24 10:55	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/18/24 10:27	03/19/24 10:55	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/18/24 10:27	03/19/24 10:55	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/18/24 10:27	03/19/24 10:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*71*		*70 - 130*	*03/18/24 10:27*	*03/19/24 10:55*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*03/18/24 10:27*	*03/19/24 10:55*	*1*

Lab Sample ID: LCS 880-75818/1-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 75949 — **Prep Batch: 75818**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1051		mg/Kg		105	70 - 130
Toluene	0.100	0.09296		mg/Kg		93	70 - 130
Ethylbenzene	0.100	0.09164		mg/Kg		92	70 - 130
m-Xylene & p-Xylene	0.200	0.1828		mg/Kg		91	70 - 130
o-Xylene	0.100	0.09074		mg/Kg		91	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*

Lab Sample ID: LCSD 880-75818/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 75949 — **Prep Batch: 75818**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1102		mg/Kg		110	70 - 130	5	35
Toluene	0.100	0.1059		mg/Kg		106	70 - 130	13	35
Ethylbenzene	0.100	0.1194		mg/Kg		119	70 - 130	26	35
m-Xylene & p-Xylene	0.200	0.2441		mg/Kg		122	70 - 130	29	35
o-Xylene	0.100	0.1211		mg/Kg		121	70 - 130	29	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*

Lab Sample ID: 880-40932-3 MS — **Client Sample ID: S-2 (1')**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 75949 — **Prep Batch: 75818**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00202	U	0.0996	0.08472		mg/Kg		84	70 - 130
Toluene	0.0191	F1	0.0996	0.08700	F1	mg/Kg		68	70 - 130

QC Sample Results

Client: Crain Environmental
Project/Site: Chem State #1

Job ID: 880-40932-1
SDG: Lea Co., NM

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

Lab Sample ID: 880-40932-3 MS
Matrix: Solid
Analysis Batch: 75949

Client Sample ID: S-2 (1')
Prep Type: Total/NA
Prep Batch: 75818

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	0.0102	F1	0.0996	0.09058		mg/Kg		81	70 - 130
m-Xylene & p-Xylene	0.0162	F2 F1	0.199	0.1764		mg/Kg		80	70 - 130
o-Xylene	0.00660	F2 F1	0.0996	0.08555		mg/Kg		79	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*

Lab Sample ID: 880-40932-3 MSD
Matrix: Solid
Analysis Batch: 75949

Client Sample ID: S-2 (1')
Prep Type: Total/NA
Prep Batch: 75818

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00202	U	0.100	0.09430		mg/Kg		93	70 - 130	11	35
Toluene	0.0191	F1	0.100	0.08435	F1	mg/Kg		65	70 - 130	3	35
Ethylbenzene	0.0102	F1	0.100	0.06465	F1	mg/Kg		54	70 - 130	33	35
m-Xylene & p-Xylene	0.0162	F2 F1	0.200	0.1213	F2 F1	mg/Kg		52	70 - 130	37	35
o-Xylene	0.00660	F2 F1	0.100	0.05836	F2 F1	mg/Kg		52	70 - 130	38	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*

Lab Sample ID: MB 880-75843/5-B
Matrix: Solid
Analysis Batch: 76073

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 75843

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/19/24 16:35	03/20/24 12:56	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/19/24 16:35	03/20/24 12:56	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/19/24 16:35	03/20/24 12:56	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/19/24 16:35	03/20/24 12:56	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/19/24 16:35	03/20/24 12:56	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/19/24 16:35	03/20/24 12:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*126*		*70 - 130*	*03/19/24 16:35*	*03/20/24 12:56*	*1*
1,4-Difluorobenzene (Surr)	*127*		*70 - 130*	*03/19/24 16:35*	*03/20/24 12:56*	*1*

Lab Sample ID: LCS 880-75843/1-B
Matrix: Solid
Analysis Batch: 76073

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 75843

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09124		mg/Kg		91	70 - 130
Toluene	0.100	0.08438		mg/Kg		84	70 - 130
Ethylbenzene	0.100	0.08539		mg/Kg		85	70 - 130
m-Xylene & p-Xylene	0.200	0.1830		mg/Kg		92	70 - 130

QC Sample Results

Client: Crain Environmental
Project/Site: Chem State #1

Job ID: 880-40932-1
SDG: Lea Co., NM

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

Lab Sample ID: LCS 880-75843/1-B
Matrix: Solid
Analysis Batch: 76073

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 75843

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
o-Xylene			0.100	0.09566		mg/Kg		96	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: LCSD 880-75843/2-B
Matrix: Solid
Analysis Batch: 76073

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 75843

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09471		mg/Kg		95	70 - 130	4	35
Toluene			0.100	0.08688		mg/Kg		87	70 - 130	3	35
Ethylbenzene			0.100	0.09144		mg/Kg		91	70 - 130	7	35
m-Xylene & p-Xylene			0.200	0.1854		mg/Kg		93	70 - 130	1	35
o-Xylene			0.100	0.09346		mg/Kg		93	70 - 130	2	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

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

Lab Sample ID: MB 880-75854/1-A
Matrix: Solid
Analysis Batch: 76067

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 75854

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		03/18/24 12:54	03/20/24 18:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/18/24 12:54	03/20/24 18:35	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/18/24 12:54	03/20/24 18:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*174*	*S1+*	*70 - 130*	*03/18/24 12:54*	*03/20/24 18:35*	*1*
o-Terphenyl	*195*	*S1+*	*70 - 130*	*03/18/24 12:54*	*03/20/24 18:35*	*1*

Lab Sample ID: LCS 880-75854/2-A
Matrix: Solid
Analysis Batch: 76067

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 75854

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	890.4		mg/Kg		89	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	894.5		mg/Kg		89	70 - 130		

QC Sample Results

Client: Crain Environmental
Project/Site: Chem State #1

Job ID: 880-40932-1
SDG: Lea Co., NM

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

Lab Sample ID: LCS 880-75854/2-A
Matrix: Solid
Analysis Batch: 76067

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 75854

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	112		70 - 130
o-Terphenyl	127		70 - 130

Lab Sample ID: LCSD 880-75854/3-A
Matrix: Solid
Analysis Batch: 76067

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 75854

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	987.4		mg/Kg		99	70 - 130	10	20
Diesel Range Organics (Over C10-C28)			1000	920.1		mg/Kg		92	70 - 130	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	93		70 - 130
o-Terphenyl	99		70 - 130

Lab Sample ID: 880-40932-16 MS
Matrix: Solid
Analysis Batch: 76067

Client Sample ID: S-8 (2')
Prep Type: Total/NA
Prep Batch: 75854

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	1000	990.3		mg/Kg		97	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	1000	859.7		mg/Kg		82	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	98		70 - 130
o-Terphenyl	84		70 - 130

Lab Sample ID: 880-40932-16 MSD
Matrix: Solid
Analysis Batch: 76067

Client Sample ID: S-8 (2')
Prep Type: Total/NA
Prep Batch: 75854

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	1000	951.4		mg/Kg		93	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	<50.0	U	1000	828.7		mg/Kg		79	70 - 130	4	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	91		70 - 130
o-Terphenyl	81		70 - 130

QC Sample Results

Client: Crain Environmental
Project/Site: Chem State #1

Job ID: 880-40932-1
SDG: Lea Co., NM

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

Lab Sample ID: MB 880-75874/1-A
Matrix: Solid
Analysis Batch: 76067

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 75874

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		03/18/24 12:59	03/20/24 07:29	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/18/24 12:59	03/20/24 07:29	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/18/24 12:59	03/20/24 07:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*139*	*S1+*	*70 - 130*	*03/18/24 12:59*	*03/20/24 07:29*	*1*
o-Terphenyl	*155*	*S1+*	*70 - 130*	*03/18/24 12:59*	*03/20/24 07:29*	*1*

Lab Sample ID: LCS 880-75874/2-A
Matrix: Solid
Analysis Batch: 76067

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 75874

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	951.6		mg/Kg		95	70 - 130
Diesel Range Organics (Over C10-C28)	1000	930.0		mg/Kg		93	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*114*		*70 - 130*
o-Terphenyl	*132*	*S1+*	*70 - 130*

Lab Sample ID: LCSD 880-75874/3-A
Matrix: Solid
Analysis Batch: 76067

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 75874

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	926.7		mg/Kg		93	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	1000	945.9		mg/Kg		95	70 - 130	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*95*		*70 - 130*
o-Terphenyl	*104*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-75886/1-A
Matrix: Solid
Analysis Batch: 75993

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			03/19/24 17:14	1

QC Sample Results

Client: Crain Environmental
Project/Site: Chem State #1

Job ID: 880-40932-1
SDG: Lea Co., NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-75886/2-A
Matrix: Solid
Analysis Batch: 75993

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	248.0		mg/Kg		99	90 - 110		

Lab Sample ID: LCSD 880-75886/3-A
Matrix: Solid
Analysis Batch: 75993

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	248.3		mg/Kg		99	90 - 110	0	20

Lab Sample ID: 880-40932-7 MS
Matrix: Solid
Analysis Batch: 75993

Client Sample ID: S-4 (1')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	55.9		249	323.5		mg/Kg		107	90 - 110		

Lab Sample ID: 880-40932-7 MSD
Matrix: Solid
Analysis Batch: 75993

Client Sample ID: S-4 (1')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	55.9		249	323.9		mg/Kg		108	90 - 110	0	20

Lab Sample ID: MB 880-75904/1-A
Matrix: Solid
Analysis Batch: 75996

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			03/19/24 14:43	1

Lab Sample ID: LCS 880-75904/2-A
Matrix: Solid
Analysis Batch: 75996

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	259.5		mg/Kg		104	90 - 110		

Lab Sample ID: LCSD 880-75904/3-A
Matrix: Solid
Analysis Batch: 75996

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	259.8		mg/Kg		104	90 - 110	0	20

Lab Sample ID: 880-40932-17 MS
Matrix: Solid
Analysis Batch: 75996

Client Sample ID: S-9 (1')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	498		249	733.5		mg/Kg		95	90 - 110		

QC Sample Results

Client: Crain Environmental
Project/Site: Chem State #1

Job ID: 880-40932-1
SDG: Lea Co., NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-40932-17 MSD
Matrix: Solid
Analysis Batch: 75996

Client Sample ID: S-9 (1')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	498		249	731.8		mg/Kg		94	90 - 110	0	20

Method: SM 2510B - Conductivity, Specific Conductance

Lab Sample ID: MB 860-151898/2
Matrix: Solid
Analysis Batch: 151898

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Electrical Conductivity	<0.0100	U	0.0100		ds/m			03/27/24 14:02	1

QC Association Summary

Client: Crain Environmental
Project/Site: Chem State #1

Job ID: 880-40932-1
SDG: Lea Co., NM

GC VOA

Prep Batch: 75818

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40932-1	S-1 (1')	Total/NA	Solid	5035	
880-40932-2	S-1 (2')	Total/NA	Solid	5035	
880-40932-3	S-2 (1')	Total/NA	Solid	5035	
880-40932-4	S-2 (2')	Total/NA	Solid	5035	
880-40932-5	S-3 (1')	Total/NA	Solid	5035	
880-40932-6	S-3 (2')	Total/NA	Solid	5035	
880-40932-7	S-4 (1')	Total/NA	Solid	5035	
880-40932-8	S-4 (2')	Total/NA	Solid	5035	
880-40932-9	S-5 (1')	Total/NA	Solid	5035	
880-40932-10	S-5 (2')	Total/NA	Solid	5035	
880-40932-11	S-6 (1')	Total/NA	Solid	5035	
880-40932-12	S-6 (2')	Total/NA	Solid	5035	
880-40932-13	S-7 (1')	Total/NA	Solid	5035	
880-40932-14	S-7 (2')	Total/NA	Solid	5035	
MB 880-75818/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-75818/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-75818/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-40932-3 MS	S-2 (1')	Total/NA	Solid	5035	
880-40932-3 MSD	S-2 (1')	Total/NA	Solid	5035	

Prep Batch: 75843

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40932-2	S-1 (2')	Total/NA	Solid	5035	
880-40932-15	S-8 (1')	Total/NA	Solid	5035	
880-40932-16	S-8 (2')	Total/NA	Solid	5035	
880-40932-17	S-9 (1')	Total/NA	Solid	5035	
880-40932-18	S-9 (2')	Total/NA	Solid	5035	
880-40932-19	S-10 (1')	Total/NA	Solid	5035	
880-40932-20	S-10 (2')	Total/NA	Solid	5035	
MB 880-75843/5-B	Method Blank	Total/NA	Solid	5035	
LCS 880-75843/1-B	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-75843/2-B	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 75949

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40932-1	S-1 (1')	Total/NA	Solid	8021B	75818
880-40932-2	S-1 (2')	Total/NA	Solid	8021B	75818
880-40932-3	S-2 (1')	Total/NA	Solid	8021B	75818
880-40932-4	S-2 (2')	Total/NA	Solid	8021B	75818
880-40932-5	S-3 (1')	Total/NA	Solid	8021B	75818
880-40932-6	S-3 (2')	Total/NA	Solid	8021B	75818
880-40932-7	S-4 (1')	Total/NA	Solid	8021B	75818
880-40932-8	S-4 (2')	Total/NA	Solid	8021B	75818
880-40932-9	S-5 (1')	Total/NA	Solid	8021B	75818
880-40932-10	S-5 (2')	Total/NA	Solid	8021B	75818
880-40932-11	S-6 (1')	Total/NA	Solid	8021B	75818
880-40932-12	S-6 (2')	Total/NA	Solid	8021B	75818
880-40932-13	S-7 (1')	Total/NA	Solid	8021B	75818
880-40932-14	S-7 (2')	Total/NA	Solid	8021B	75818
MB 880-75818/5-A	Method Blank	Total/NA	Solid	8021B	75818
LCS 880-75818/1-A	Lab Control Sample	Total/NA	Solid	8021B	75818

QC Association Summary

Client: Crain Environmental
Project/Site: Chem State #1

Job ID: 880-40932-1
SDG: Lea Co., NM

GC VOA (Continued)

Analysis Batch: 75949 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-75818/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	75818
880-40932-3 MS	S-2 (1')	Total/NA	Solid	8021B	75818
880-40932-3 MSD	S-2 (1')	Total/NA	Solid	8021B	75818

Analysis Batch: 76073

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40932-2	S-1 (2')	Total/NA	Solid	8021B	75843
880-40932-15	S-8 (1')	Total/NA	Solid	8021B	75843
880-40932-16	S-8 (2')	Total/NA	Solid	8021B	75843
880-40932-17	S-9 (1')	Total/NA	Solid	8021B	75843
880-40932-18	S-9 (2')	Total/NA	Solid	8021B	75843
880-40932-19	S-10 (1')	Total/NA	Solid	8021B	75843
880-40932-20	S-10 (2')	Total/NA	Solid	8021B	75843
MB 880-75843/5-B	Method Blank	Total/NA	Solid	8021B	75843
LCS 880-75843/1-B	Lab Control Sample	Total/NA	Solid	8021B	75843
LCSD 880-75843/2-B	Lab Control Sample Dup	Total/NA	Solid	8021B	75843

Analysis Batch: 76081

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40932-1	S-1 (1')	Total/NA	Solid	Total BTEX	
880-40932-2	S-1 (2')	Total/NA	Solid	Total BTEX	
880-40932-3	S-2 (1')	Total/NA	Solid	Total BTEX	
880-40932-4	S-2 (2')	Total/NA	Solid	Total BTEX	
880-40932-5	S-3 (1')	Total/NA	Solid	Total BTEX	
880-40932-6	S-3 (2')	Total/NA	Solid	Total BTEX	
880-40932-7	S-4 (1')	Total/NA	Solid	Total BTEX	
880-40932-8	S-4 (2')	Total/NA	Solid	Total BTEX	
880-40932-9	S-5 (1')	Total/NA	Solid	Total BTEX	
880-40932-10	S-5 (2')	Total/NA	Solid	Total BTEX	
880-40932-11	S-6 (1')	Total/NA	Solid	Total BTEX	
880-40932-12	S-6 (2')	Total/NA	Solid	Total BTEX	
880-40932-13	S-7 (1')	Total/NA	Solid	Total BTEX	
880-40932-14	S-7 (2')	Total/NA	Solid	Total BTEX	
880-40932-15	S-8 (1')	Total/NA	Solid	Total BTEX	
880-40932-16	S-8 (2')	Total/NA	Solid	Total BTEX	
880-40932-17	S-9 (1')	Total/NA	Solid	Total BTEX	
880-40932-18	S-9 (2')	Total/NA	Solid	Total BTEX	
880-40932-19	S-10 (1')	Total/NA	Solid	Total BTEX	
880-40932-20	S-10 (2')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 75854

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40932-1	S-1 (1')	Total/NA	Solid	8015NM Prep	
880-40932-2	S-1 (2')	Total/NA	Solid	8015NM Prep	
880-40932-3	S-2 (1')	Total/NA	Solid	8015NM Prep	
880-40932-4	S-2 (2')	Total/NA	Solid	8015NM Prep	
880-40932-5	S-3 (1')	Total/NA	Solid	8015NM Prep	
880-40932-6	S-3 (2')	Total/NA	Solid	8015NM Prep	
880-40932-7	S-4 (1')	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Crain Environmental
Project/Site: Chem State #1

Job ID: 880-40932-1
SDG: Lea Co., NM

GC Semi VOA (Continued)

Prep Batch: 75854 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40932-8	S-4 (2')	Total/NA	Solid	8015NM Prep	
880-40932-9	S-5 (1')	Total/NA	Solid	8015NM Prep	
880-40932-10	S-5 (2')	Total/NA	Solid	8015NM Prep	
880-40932-11	S-6 (1')	Total/NA	Solid	8015NM Prep	
880-40932-12	S-6 (2')	Total/NA	Solid	8015NM Prep	
880-40932-13	S-7 (1')	Total/NA	Solid	8015NM Prep	
880-40932-14	S-7 (2')	Total/NA	Solid	8015NM Prep	
880-40932-15	S-8 (1')	Total/NA	Solid	8015NM Prep	
880-40932-16	S-8 (2')	Total/NA	Solid	8015NM Prep	
880-40932-17	S-9 (1')	Total/NA	Solid	8015NM Prep	
880-40932-18	S-9 (2')	Total/NA	Solid	8015NM Prep	
MB 880-75854/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-75854/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-75854/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-40932-16 MS	S-8 (2')	Total/NA	Solid	8015NM Prep	
880-40932-16 MSD	S-8 (2')	Total/NA	Solid	8015NM Prep	

Prep Batch: 75874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40932-19	S-10 (1')	Total/NA	Solid	8015NM Prep	
880-40932-20	S-10 (2')	Total/NA	Solid	8015NM Prep	
MB 880-75874/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-75874/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-75874/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 76067

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40932-1	S-1 (1')	Total/NA	Solid	8015B NM	75854
880-40932-2	S-1 (2')	Total/NA	Solid	8015B NM	75854
880-40932-3	S-2 (1')	Total/NA	Solid	8015B NM	75854
880-40932-4	S-2 (2')	Total/NA	Solid	8015B NM	75854
880-40932-5	S-3 (1')	Total/NA	Solid	8015B NM	75854
880-40932-6	S-3 (2')	Total/NA	Solid	8015B NM	75854
880-40932-7	S-4 (1')	Total/NA	Solid	8015B NM	75854
880-40932-8	S-4 (2')	Total/NA	Solid	8015B NM	75854
880-40932-9	S-5 (1')	Total/NA	Solid	8015B NM	75854
880-40932-10	S-5 (2')	Total/NA	Solid	8015B NM	75854
880-40932-11	S-6 (1')	Total/NA	Solid	8015B NM	75854
880-40932-12	S-6 (2')	Total/NA	Solid	8015B NM	75854
880-40932-13	S-7 (1')	Total/NA	Solid	8015B NM	75854
880-40932-14	S-7 (2')	Total/NA	Solid	8015B NM	75854
880-40932-15	S-8 (1')	Total/NA	Solid	8015B NM	75854
880-40932-16	S-8 (2')	Total/NA	Solid	8015B NM	75854
880-40932-17	S-9 (1')	Total/NA	Solid	8015B NM	75854
880-40932-18	S-9 (2')	Total/NA	Solid	8015B NM	75854
880-40932-19	S-10 (1')	Total/NA	Solid	8015B NM	75874
880-40932-20	S-10 (2')	Total/NA	Solid	8015B NM	75874
MB 880-75854/1-A	Method Blank	Total/NA	Solid	8015B NM	75854
MB 880-75874/1-A	Method Blank	Total/NA	Solid	8015B NM	75874
LCS 880-75854/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	75854
LCS 880-75874/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	75874

QC Association Summary

Client: Crain Environmental
Project/Site: Chem State #1

Job ID: 880-40932-1
SDG: Lea Co., NM

GC Semi VOA (Continued)

Analysis Batch: 76067 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-75854/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	75854
LCSD 880-75874/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	75874
880-40932-16 MS	S-8 (2')	Total/NA	Solid	8015B NM	75854
880-40932-16 MSD	S-8 (2')	Total/NA	Solid	8015B NM	75854

Analysis Batch: 76217

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40932-1	S-1 (1')	Total/NA	Solid	8015 NM	
880-40932-2	S-1 (2')	Total/NA	Solid	8015 NM	
880-40932-3	S-2 (1')	Total/NA	Solid	8015 NM	
880-40932-4	S-2 (2')	Total/NA	Solid	8015 NM	
880-40932-5	S-3 (1')	Total/NA	Solid	8015 NM	
880-40932-6	S-3 (2')	Total/NA	Solid	8015 NM	
880-40932-7	S-4 (1')	Total/NA	Solid	8015 NM	
880-40932-8	S-4 (2')	Total/NA	Solid	8015 NM	
880-40932-9	S-5 (1')	Total/NA	Solid	8015 NM	
880-40932-10	S-5 (2')	Total/NA	Solid	8015 NM	
880-40932-11	S-6 (1')	Total/NA	Solid	8015 NM	
880-40932-12	S-6 (2')	Total/NA	Solid	8015 NM	
880-40932-13	S-7 (1')	Total/NA	Solid	8015 NM	
880-40932-14	S-7 (2')	Total/NA	Solid	8015 NM	
880-40932-15	S-8 (1')	Total/NA	Solid	8015 NM	
880-40932-16	S-8 (2')	Total/NA	Solid	8015 NM	
880-40932-17	S-9 (1')	Total/NA	Solid	8015 NM	
880-40932-18	S-9 (2')	Total/NA	Solid	8015 NM	
880-40932-19	S-10 (1')	Total/NA	Solid	8015 NM	
880-40932-20	S-10 (2')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 75886

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40932-1	S-1 (1')	Soluble	Solid	DI Leach	
880-40932-2	S-1 (2')	Soluble	Solid	DI Leach	
880-40932-3	S-2 (1')	Soluble	Solid	DI Leach	
880-40932-4	S-2 (2')	Soluble	Solid	DI Leach	
880-40932-5	S-3 (1')	Soluble	Solid	DI Leach	
880-40932-6	S-3 (2')	Soluble	Solid	DI Leach	
880-40932-7	S-4 (1')	Soluble	Solid	DI Leach	
880-40932-8	S-4 (2')	Soluble	Solid	DI Leach	
880-40932-9	S-5 (1')	Soluble	Solid	DI Leach	
880-40932-10	S-5 (2')	Soluble	Solid	DI Leach	
880-40932-11	S-6 (1')	Soluble	Solid	DI Leach	
880-40932-12	S-6 (2')	Soluble	Solid	DI Leach	
880-40932-13	S-7 (1')	Soluble	Solid	DI Leach	
880-40932-14	S-7 (2')	Soluble	Solid	DI Leach	
880-40932-15	S-8 (1')	Soluble	Solid	DI Leach	
880-40932-16	S-8 (2')	Soluble	Solid	DI Leach	
MB 880-75886/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-75886/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-75886/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

QC Association Summary

Client: Crain Environmental
Project/Site: Chem State #1

Job ID: 880-40932-1
SDG: Lea Co., NM

HPLC/IC (Continued)

Leach Batch: 75886 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40932-7 MS	S-4 (1')	Soluble	Solid	DI Leach	
880-40932-7 MSD	S-4 (1')	Soluble	Solid	DI Leach	

Leach Batch: 75904

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40932-17	S-9 (1')	Soluble	Solid	DI Leach	
880-40932-18	S-9 (2')	Soluble	Solid	DI Leach	
880-40932-19	S-10 (1')	Soluble	Solid	DI Leach	
880-40932-20	S-10 (2')	Soluble	Solid	DI Leach	
880-40932-21	T-1 (1')	Soluble	Solid	DI Leach	
MB 880-75904/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-75904/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-75904/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-40932-17 MS	S-9 (1')	Soluble	Solid	DI Leach	
880-40932-17 MSD	S-9 (1')	Soluble	Solid	DI Leach	

Analysis Batch: 75993

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40932-1	S-1 (1')	Soluble	Solid	300.0	75886
880-40932-2	S-1 (2')	Soluble	Solid	300.0	75886
880-40932-3	S-2 (1')	Soluble	Solid	300.0	75886
880-40932-4	S-2 (2')	Soluble	Solid	300.0	75886
880-40932-5	S-3 (1')	Soluble	Solid	300.0	75886
880-40932-6	S-3 (2')	Soluble	Solid	300.0	75886
880-40932-7	S-4 (1')	Soluble	Solid	300.0	75886
880-40932-8	S-4 (2')	Soluble	Solid	300.0	75886
880-40932-9	S-5 (1')	Soluble	Solid	300.0	75886
880-40932-10	S-5 (2')	Soluble	Solid	300.0	75886
880-40932-11	S-6 (1')	Soluble	Solid	300.0	75886
880-40932-12	S-6 (2')	Soluble	Solid	300.0	75886
880-40932-13	S-7 (1')	Soluble	Solid	300.0	75886
880-40932-14	S-7 (2')	Soluble	Solid	300.0	75886
880-40932-15	S-8 (1')	Soluble	Solid	300.0	75886
880-40932-16	S-8 (2')	Soluble	Solid	300.0	75886
MB 880-75886/1-A	Method Blank	Soluble	Solid	300.0	75886
LCS 880-75886/2-A	Lab Control Sample	Soluble	Solid	300.0	75886
LCSD 880-75886/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	75886
880-40932-7 MS	S-4 (1')	Soluble	Solid	300.0	75886
880-40932-7 MSD	S-4 (1')	Soluble	Solid	300.0	75886

Analysis Batch: 75996

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40932-17	S-9 (1')	Soluble	Solid	300.0	75904
880-40932-18	S-9 (2')	Soluble	Solid	300.0	75904
880-40932-19	S-10 (1')	Soluble	Solid	300.0	75904
880-40932-20	S-10 (2')	Soluble	Solid	300.0	75904
880-40932-21	T-1 (1')	Soluble	Solid	300.0	75904
MB 880-75904/1-A	Method Blank	Soluble	Solid	300.0	75904
LCS 880-75904/2-A	Lab Control Sample	Soluble	Solid	300.0	75904
LCSD 880-75904/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	75904
880-40932-17 MS	S-9 (1')	Soluble	Solid	300.0	75904

QC Association Summary

Client: Crain Environmental
Project/Site: Chem State #1

Job ID: 880-40932-1
SDG: Lea Co., NM

HPLC/IC (Continued)

Analysis Batch: 75996 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40932-17 MSD	S-9 (1')	Soluble	Solid	300.0	75904

Metals

Prep Batch: 151356

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40932-21	T-1 (1')	Total/NA	Solid	29B	

Prep Batch: 151856

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40932-21	T-1 (1')	Total/NA	Solid	29B	151356

Analysis Batch: 152058

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40932-21	T-1 (1')	Total/NA	Solid	29B SAR	151856

General Chemistry

Leach Batch: 151109

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40932-21	T-1 (1')	Soluble	Solid	DI Leach	

Analysis Batch: 151150

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40932-21	T-1 (1')	Soluble	Solid	9045D	151109

Leach Batch: 151802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40932-21	T-1 (1')	Soluble	Solid	DI Leach	

Analysis Batch: 151898

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40932-21	T-1 (1')	Soluble	Solid	SM 2510B	151802
MB 860-151898/2	Method Blank	Total/NA	Solid	SM 2510B	
LCS 860-151898/3	Lab Control Sample	Total/NA	Solid	SM 2510B	
LCSD 860-151898/4	Lab Control Sample Dup	Total/NA	Solid	SM 2510B	

Lab Chronicle

Client: Crain Environmental
Project/Site: Chem State #1

Job ID: 880-40932-1
SDG: Lea Co., NM

Client Sample ID: S-1 (1')
Date Collected: 03/12/24 14:10
Date Received: 03/15/24 14:51

Lab Sample ID: 880-40932-1
Matrix: Solid

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	75818	03/18/24 10:27	MNR	EET MID
Total/NA	Analysis	8021B		50	5 mL	5 mL	75949	03/19/24 14:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			76081	03/19/24 14:01	SM	EET MID
Total/NA	Analysis	8015 NM		1			76217	03/21/24 00:11	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	75854	03/18/24 12:54	EL	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	76067	03/21/24 00:11	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	75886	03/18/24 13:20	SA	EET MID
Soluble	Analysis	300.0		10			75993	03/19/24 18:04	SI	EET MID

Client Sample ID: S-1 (2')
Date Collected: 03/12/24 14:15
Date Received: 03/15/24 14:51

Lab Sample ID: 880-40932-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	75843	03/19/24 16:35	MNR	EET MID
Total/NA	Analysis	8021B		250	5 mL	5 mL	76073	03/20/24 16:29	MNR	EET MID
Total/NA	Prep	5035			5.03 g	5 mL	75818	03/18/24 10:27	MNR	EET MID
Total/NA	Analysis	8021B		50	5 mL	5 mL	75949	03/19/24 14:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			76081	03/20/24 16:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			76217	03/21/24 00:32	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	75854	03/18/24 12:54	EL	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	76067	03/21/24 00:32	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	75886	03/18/24 13:20	SA	EET MID
Soluble	Analysis	300.0		10			75993	03/19/24 18:21	SI	EET MID

Client Sample ID: S-2 (1')
Date Collected: 03/12/24 14:25
Date Received: 03/15/24 14:51

Lab Sample ID: 880-40932-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	75818	03/18/24 10:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	75949	03/19/24 11:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			76081	03/19/24 11:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			76217	03/21/24 01:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	75854	03/18/24 12:54	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	76067	03/21/24 01:15	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	75886	03/18/24 13:20	SA	EET MID
Soluble	Analysis	300.0		1			75993	03/19/24 18:26	SI	EET MID

Lab Chronicle

Client: Crain Environmental
Project/Site: Chem State #1

Job ID: 880-40932-1
SDG: Lea Co., NM

Client Sample ID: S-2 (2')

Lab Sample ID: 880-40932-4
Matrix: Solid
Date Collected: 03/12/24 14:27
Date Received: 03/15/24 14:51

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	75818	03/18/24 10:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	75949	03/19/24 11:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			76081	03/19/24 11:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			76217	03/21/24 00:54	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	75854	03/18/24 12:54	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	76067	03/21/24 00:54	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	75886	03/18/24 13:20	SA	EET MID
Soluble	Analysis	300.0		1			75993	03/19/24 18:32	SI	EET MID

Client Sample ID: S-3 (1')

Lab Sample ID: 880-40932-5
Matrix: Solid
Date Collected: 03/12/24 12:35
Date Received: 03/15/24 14:51

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	75818	03/18/24 10:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	75949	03/19/24 11:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			76081	03/19/24 11:58	SM	EET MID
Total/NA	Analysis	8015 NM		1			76217	03/21/24 01:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	75854	03/18/24 12:54	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	76067	03/21/24 01:36	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	75886	03/18/24 13:20	SA	EET MID
Soluble	Analysis	300.0		1			75993	03/19/24 18:37	SI	EET MID

Client Sample ID: S-3 (2')

Lab Sample ID: 880-40932-6
Matrix: Solid
Date Collected: 03/12/24 12:38
Date Received: 03/15/24 14:51

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	75818	03/18/24 10:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	75949	03/19/24 12:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			76081	03/19/24 12:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			76217	03/21/24 02:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	75854	03/18/24 12:54	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	76067	03/21/24 02:18	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	75886	03/18/24 13:20	SA	EET MID
Soluble	Analysis	300.0		1			75993	03/19/24 18:43	SI	EET MID

Client Sample ID: S-4 (1')

Lab Sample ID: 880-40932-7
Matrix: Solid
Date Collected: 03/12/24 14:42
Date Received: 03/15/24 14:51

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	75818	03/18/24 10:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	75949	03/19/24 12:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			76081	03/19/24 12:39	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Crain Environmental
Project/Site: Chem State #1

Job ID: 880-40932-1
SDG: Lea Co., NM

Client Sample ID: S-4 (1')

Lab Sample ID: 880-40932-7
Matrix: Solid
Date Collected: 03/12/24 14:42
Date Received: 03/15/24 14:51

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			76217	03/21/24 02:39	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	75854	03/18/24 12:54	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	76067	03/21/24 02:39	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	75886	03/18/24 13:20	SA	EET MID
Soluble	Analysis	300.0		1			75993	03/19/24 18:48	SI	EET MID

Client Sample ID: S-4 (2')

Lab Sample ID: 880-40932-8
Matrix: Solid
Date Collected: 03/12/24 14:45
Date Received: 03/15/24 14:51

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	75818	03/18/24 10:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	75949	03/19/24 12:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			76081	03/19/24 12:59	SM	EET MID
Total/NA	Analysis	8015 NM		1			76217	03/21/24 01:57	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	75854	03/18/24 12:54	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	76067	03/21/24 01:57	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	75886	03/18/24 13:20	SA	EET MID
Soluble	Analysis	300.0		1			75993	03/19/24 19:05	SI	EET MID

Client Sample ID: S-5 (1')

Lab Sample ID: 880-40932-9
Matrix: Solid
Date Collected: 03/12/24 14:55
Date Received: 03/15/24 14:51

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	75818	03/18/24 10:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	75949	03/19/24 13:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			76081	03/19/24 13:20	SM	EET MID
Total/NA	Analysis	8015 NM		1			76217	03/20/24 20:41	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	75854	03/18/24 12:54	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	76067	03/20/24 20:41	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	75886	03/18/24 13:20	SA	EET MID
Soluble	Analysis	300.0		1			75993	03/19/24 19:10	SI	EET MID

Client Sample ID: S-5 (2')

Lab Sample ID: 880-40932-10
Matrix: Solid
Date Collected: 03/12/24 14:57
Date Received: 03/15/24 14:51

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	75818	03/18/24 10:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	75949	03/19/24 13:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			76081	03/19/24 13:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			76217	03/20/24 21:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	75854	03/18/24 12:54	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	76067	03/20/24 21:03	SM	EET MID

Lab Chronicle

Client: Crain Environmental
Project/Site: Chem State #1

Job ID: 880-40932-1
SDG: Lea Co., NM

Client Sample ID: S-5 (2')
Date Collected: 03/12/24 14:57
Date Received: 03/15/24 14:51

Lab Sample ID: 880-40932-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	75886	03/18/24 13:20	SA	EET MID
Soluble	Analysis	300.0		1			75993	03/19/24 19:27	SI	EET MID

Client Sample ID: S-6 (1')
Date Collected: 03/12/24 15:02
Date Received: 03/15/24 14:51

Lab Sample ID: 880-40932-11
Matrix: Solid

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	75818	03/18/24 10:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	75949	03/19/24 15:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			76081	03/19/24 15:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			76217	03/20/24 21:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	75854	03/18/24 12:54	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	76067	03/20/24 21:24	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	75886	03/18/24 13:20	SA	EET MID
Soluble	Analysis	300.0		1			75993	03/19/24 19:32	SI	EET MID

Client Sample ID: S-6 (2')
Date Collected: 03/12/24 15:06
Date Received: 03/15/24 14:51

Lab Sample ID: 880-40932-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	75818	03/18/24 10:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	75949	03/19/24 16:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			76081	03/19/24 16:04	SM	EET MID
Total/NA	Analysis	8015 NM		1			76217	03/20/24 21:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	75854	03/18/24 12:54	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	76067	03/20/24 21:45	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	75886	03/18/24 13:20	SA	EET MID
Soluble	Analysis	300.0		1			75993	03/19/24 19:38	SI	EET MID

Client Sample ID: S-7 (1')
Date Collected: 03/12/24 15:12
Date Received: 03/15/24 14:51

Lab Sample ID: 880-40932-13
Matrix: Solid

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	75818	03/18/24 10:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	75949	03/19/24 16:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			76081	03/19/24 16:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			76217	03/21/24 03:00	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	75854	03/18/24 12:54	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	76067	03/21/24 03:00	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	75886	03/18/24 13:20	SA	EET MID
Soluble	Analysis	300.0		1			75993	03/19/24 19:44	SI	EET MID

Lab Chronicle

Client: Crain Environmental
Project/Site: Chem State #1

Job ID: 880-40932-1
SDG: Lea Co., NM

Client Sample ID: S-7 (2')
Date Collected: 03/12/24 15:15
Date Received: 03/15/24 14:51

Lab Sample ID: 880-40932-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	75818	03/18/24 10:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	75949	03/19/24 16:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			76081	03/19/24 16:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			76217	03/20/24 22:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	75854	03/18/24 12:54	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	76067	03/20/24 22:26	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	75886	03/18/24 13:20	SA	EET MID
Soluble	Analysis	300.0		1			75993	03/19/24 19:49	SI	EET MID

Client Sample ID: S-8 (1')
Date Collected: 03/12/24 15:19
Date Received: 03/15/24 14:51

Lab Sample ID: 880-40932-15
Matrix: Solid

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	75843	03/19/24 16:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	76073	03/20/24 19:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			76081	03/20/24 19:01	SM	EET MID
Total/NA	Analysis	8015 NM		1			76217	03/20/24 22:05	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	75854	03/18/24 12:54	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	76067	03/20/24 22:05	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	75886	03/18/24 13:20	SA	EET MID
Soluble	Analysis	300.0		1			75993	03/19/24 19:55	SI	EET MID

Client Sample ID: S-8 (2')
Date Collected: 03/12/24 15:22
Date Received: 03/15/24 14:51

Lab Sample ID: 880-40932-16
Matrix: Solid

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	75843	03/19/24 16:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	76073	03/20/24 19:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			76081	03/20/24 19:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			76217	03/20/24 19:38	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	75854	03/18/24 12:54	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	76067	03/20/24 19:38	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	75886	03/18/24 13:20	SA	EET MID
Soluble	Analysis	300.0		1			75993	03/19/24 20:00	SI	EET MID

Client Sample ID: S-9 (1')
Date Collected: 03/12/24 15:27
Date Received: 03/15/24 14:51

Lab Sample ID: 880-40932-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	75843	03/19/24 16:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	76073	03/20/24 19:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			76081	03/20/24 19:42	SM	EET MID

Lab Chronicle

Client: Crain Environmental
Project/Site: Chem State #1

Job ID: 880-40932-1
SDG: Lea Co., NM

Client Sample ID: S-9 (1')
Date Collected: 03/12/24 15:27
Date Received: 03/15/24 14:51

Lab Sample ID: 880-40932-17
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			76217	03/20/24 22:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.10 g	10 mL	75854	03/18/24 12:54	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	76067	03/20/24 22:47	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	75904	03/18/24 14:41	SA	EET MID
Soluble	Analysis	300.0		1			75996	03/19/24 15:06	SI	EET MID

Client Sample ID: S-9 (2')
Date Collected: 03/12/24 15:30
Date Received: 03/15/24 14:51

Lab Sample ID: 880-40932-18
Matrix: Solid

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	75843	03/19/24 16:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	76073	03/20/24 20:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			76081	03/20/24 20:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			76217	03/21/24 03:21	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	75854	03/18/24 12:54	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	76067	03/21/24 03:21	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	75904	03/18/24 14:41	SA	EET MID
Soluble	Analysis	300.0		1			75996	03/19/24 15:28	SI	EET MID

Client Sample ID: S-10 (1')
Date Collected: 03/12/24 15:34
Date Received: 03/15/24 14:51

Lab Sample ID: 880-40932-19
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	75843	03/19/24 16:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	76073	03/20/24 20:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			76081	03/20/24 20:22	SM	EET MID
Total/NA	Analysis	8015 NM		1			76217	03/20/24 11:49	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	75874	03/18/24 13:00	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	76067	03/20/24 11:49	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	75904	03/18/24 14:41	SA	EET MID
Soluble	Analysis	300.0		1			75996	03/19/24 15:35	SI	EET MID

Client Sample ID: S-10 (2')
Date Collected: 03/12/24 15:38
Date Received: 03/15/24 14:51

Lab Sample ID: 880-40932-20
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	75843	03/19/24 16:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	76073	03/20/24 20:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			76081	03/20/24 20:43	SM	EET MID
Total/NA	Analysis	8015 NM		1			76217	03/20/24 12:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	75874	03/18/24 13:00	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	76067	03/20/24 12:10	SM	EET MID

Lab Chronicle

Client: Crain Environmental
Project/Site: Chem State #1

Job ID: 880-40932-1
SDG: Lea Co., NM

Client Sample ID: S-10 (2')

Date Collected: 03/12/24 15:38
Date Received: 03/15/24 14:51

Lab Sample ID: 880-40932-20
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	75904	03/18/24 14:41	SA	EET MID
Soluble	Analysis	300.0		1			75996	03/19/24 15:43	SI	EET MID

Client Sample ID: T-1 (1')

Date Collected: 03/12/24 14:08
Date Received: 03/15/24 14:51

Lab Sample ID: 880-40932-21
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	75904	03/18/24 14:41	SA	EET MID
Soluble	Analysis	300.0		1			75996	03/19/24 15:50	SI	EET MID
Total/NA	Prep	29B			45 g	40 g	151356	03/24/24 19:38	AGR	EET HOU
Total/NA	Prep	29B			30.54 g	30 mL	151856	03/27/24 10:35	AGR	EET HOU
Total/NA	Analysis	29B SAR		1			152058	03/28/24 09:16	JDM	EET HOU
Soluble	Leach	DI Leach			20 g	20 mL	151109	03/22/24 10:06	BW	EET HOU
Soluble	Analysis	9045D		1	20 g	20 mL	151150	03/22/24 13:10	BW	EET HOU
Soluble	Leach	DI Leach			30 g	30 mL	151802	03/27/24 08:23	BW	EET HOU
Soluble	Analysis	SM 2510B		1			151898	03/27/24 14:02	BW	EET HOU

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

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

Accreditation/Certification Summary

Client: Crain Environmental
Project/Site: Chem State #1

Job ID: 880-40932-1
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

Laboratory: Eurofins Houston

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

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

Method Summary

Client: Crain Environmental
Project/Site: Chem State #1

Job ID: 880-40932-1
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
29B SAR	Sodium Adsorption Ratio	LA	EET HOU
9045D	pH	SW846	EET HOU
SM 2510B	Conductivity, Specific Conductance	SM	EET HOU
29B	Preparation, Dry, Grind and Sieve	LA	EET HOU
29B	Preparation, Sodium Absorption Ratio	LA	EET HOU
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET HOU
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International
EPA = US Environmental Protection Agency
LA = Statewide Order No. 29-B, State Of Louisianna
SM = "Standard Methods For The Examination Of Water And Wastewater"
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Crain Environmental
Project/Site: Chem State #1

Job ID: 880-40932-1
SDG: Lea Co., NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-40932-1	S-1 (1')	Solid	03/12/24 14:10	03/15/24 14:51	1'
880-40932-2	S-1 (2')	Solid	03/12/24 14:15	03/15/24 14:51	2'
880-40932-3	S-2 (1')	Solid	03/12/24 14:25	03/15/24 14:51	1'
880-40932-4	S-2 (2')	Solid	03/12/24 14:27	03/15/24 14:51	2'
880-40932-5	S-3 (1')	Solid	03/12/24 12:35	03/15/24 14:51	1'
880-40932-6	S-3 (2')	Solid	03/12/24 12:38	03/15/24 14:51	2'
880-40932-7	S-4 (1')	Solid	03/12/24 14:42	03/15/24 14:51	1'
880-40932-8	S-4 (2')	Solid	03/12/24 14:45	03/15/24 14:51	2'
880-40932-9	S-5 (1')	Solid	03/12/24 14:55	03/15/24 14:51	1'
880-40932-10	S-5 (2')	Solid	03/12/24 14:57	03/15/24 14:51	2'
880-40932-11	S-6 (1')	Solid	03/12/24 15:02	03/15/24 14:51	1'
880-40932-12	S-6 (2')	Solid	03/12/24 15:06	03/15/24 14:51	2'
880-40932-13	S-7 (1')	Solid	03/12/24 15:12	03/15/24 14:51	1'
880-40932-14	S-7 (2')	Solid	03/12/24 15:15	03/15/24 14:51	2'
880-40932-15	S-8 (1')	Solid	03/12/24 15:19	03/15/24 14:51	1'
880-40932-16	S-8 (2')	Solid	03/12/24 15:22	03/15/24 14:51	2'
880-40932-17	S-9 (1')	Solid	03/12/24 15:27	03/15/24 14:51	1'
880-40932-18	S-9 (2')	Solid	03/12/24 15:30	03/15/24 14:51	2'
880-40932-19	S-10 (1')	Solid	03/12/24 15:34	03/15/24 14:51	1'
880-40932-20	S-10 (2')	Solid	03/12/24 15:38	03/15/24 14:51	2'
880-40932-21	T-1 (1')	Solid	03/12/24 14:08	03/15/24 14:51	1'

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Chain of Custody

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

880-40932 Chain of Custody

Project Manager:	Cindy Crain	Bill to: (if different)	Chris Gaddy
Company Name:	Crain Environmental	Company Name:	Octane Energy
Address:	2925 E. 17th St.	Address:	310 W. Wall, Ste. 300
City, State ZIP:	Odessa, TX 79761	City, State ZIP:	Midland, TX 79701
Phone	(575) 441-7244 Email:	Email:	Cindy.Crain@gmail.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project: NM
Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables EDD ☐ ADaPT ☐ Other:

Project Name:	Chem State #1	Turn Around	☒ Routine ☐ Rush
Project Number:	–	Due Date:	
Project Location	Lea Co, NM	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Cindy Crain		
PO #	–		

SAMPLE RECEIPT	Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Samples Received Intact:	(Yes) No	Thermometer ID:	IR8	
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-.10	
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	38	
Total Containers.		Corrected Temperature:	37	

Preservative Codes

None: NO DI Water: H_2O
Cool: Cool MeOH: Me
HCL: HC HNO_3: HN
H_2SO_4: H_2 NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: NaSO$_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: TPH 8015M	BTEX	Chlorides	Sample Comments
S-1 (1')	S	3/12/24	1410	1'	C	1		X	X	X	
S-1 (2')			1416	2'							
S-2 (1')			1425	1'							
S-2 (2')			1427	2'							
S-3 (1')			1235	1'							
S-3 (2')			1238	2'							
S-4 (1')			1442	1'							
S-4 (2')			1445	2'							
S-5 (1')			1455	1'							
S-5 (2')			1457	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 Tl 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 Tl U Hg 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Cindy Crain		3/15/24 1451	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

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Chain of Custody

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

Work Order No: 40932

www.xenco.com Page 2 of 3

Project Manager:	Cindy Crain	Bill to: (if different)	Chris Gaddy
Company Name:	Crain Environmental	Company Name:	Octane Energy
Address:	2925 E. 17th St.	Address:	310 W. Wall, Ste. 300
City, State ZIP:	Odessa, TX 79761	City, State ZIP:	Midland, TX 79701
Phone:	(575) 441-7244 Email	Email	Cindy.crain@gmail.com

Work Order Comments

Program UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project: NM
Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables EDD ☐ ADaPT ☐ Other:

Project Name:	Chem State #1	Turn Around	
Project Number:	-	☒ Routine ☐ Rush	
Project Location:	Lea Co., NM	Due Date:	
Sampler's Name:	Cindy Crain	TAT starts the day received by the lab, if received by 4:30pm	
PO #	-		

SAMPLE RECEIPT	Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:		
Cooler Custody Seals:	Yes No N/A	Correction Factor:		
Sample Custody Seals:	Yes No N/A	Temperature Reading:		
Total Containers:		Corrected Temperature:		

Preservative Codes

None NO | DI Water H_2O
Cool Cool | MeOH Me
HCL HC | HNO_3 HN
H_2SO_4 H_2 | NaOH Na
H_3PO_4 HP
$NaHSO_4$ NABIS
$Na_2S_2O_3$ $NaSO_3$
Zn Acetate+NaOH Zn
NaOH+Ascorbic Acid SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: TPH 8015M	BTEX	Chlorides	Sample Comments
S-6 (1')	S	3/12/24	1502	1'	C	1		X	X	X	
S-6 (2')			1506	2'							
S-7 (1')			1512	1'							
S-7 (2')			1515	2'							
S-8 (1')			1519	1'							
S-8 (2')			1522	2'							
S-9 (1')			1527	1'							
S-9 (2')			1530	2'							
S-10 (1')			1534	1'							
S-10 (2')	↓	↓	1538	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 Tl 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 Tl U Hg 1631 / 245 1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Cindy Crain		3/15/24 1451	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev 2020.2

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Chain of Custody

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

Work Order No: 97

Loc: 880 40932

www.xenco.com Page 3 of

Project Manager:	Cindy Crain	Bill to: (if different)	Chris Gradely
Company Name:	Crain Environmental	Company Name:	Matador Energy
Address:	2925 E. 17th St.	Address:	310 W. Wall, Ste. 300
City, State ZIP:	Odessa, TX 79761	City, State ZIP:	Midland, TX 79701
Phone:	(575) 441-7244 Email	Email	Cindy.crain@gmail.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project: NM
Reporting. Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables EDD ☐ ADaPT ☐ Other:

Project Name:	Chem State #1	Turn Around	☑ Routine ☐ Rush
Project Number:	—	Due Date:	
Project Location.	Lea Co., NM	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Cindy Crain		
PO #:	—		

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Samples Received Intact:	Yes No	Thermometer ID:		
Cooler Custody Seals.	Yes No N/A	Correction Factor:		
Sample Custody Seals:	Yes No N/A	Temperature Reading:		
Total Containers.		Corrected Temperature:		

Preservative Codes

None NO DI Water H_2O
Cool Cool MeOH Me
HCL. HC HNO_3 HN
H_2SO_4 H_2 NaOH Na
H_3PO_4 HP
$NaHSO_4$ NABIS
$Na_2S_2O_3$ $NaSO_3$
Zn Acetate+NaOH Zn
NaOH+Ascorbic Acid SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: Chloride	EC	SAR	ESP	pH	Sample Comments
T-1 (1')	S	3/12/24	1408	1'	C	1		X	X	X	X	X	

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 Tl 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 Tl U Hg 1631 / 245 1 / 7470 / 7471

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Cindy Crain		3/15/24 1451	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev 2020.2

Eurofins Midland
1211 W Florida Ave
Midland TX 79701
Phone: 432-704-5440

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kramer Jessica	Carrier Tracking No(s):	COC No: 880-9583.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Jessica.Kramer@et.eurofinsus.com	State of Origin: Texas	Page: Page 1 of 1
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP Texas		Job #: 880-40932-1
Address: 4145 Greenbriar Dr	Due Date Requested: 3/21/2024			
City: Stafford	TAT Requested (days):			
State, Zip: TX, 77477				
Phone: 281-240-4200(Tel)	PO #:			
Email:	WO #:			
Project Name: Chem State #1	Project #: 88001917			
Site:	SSOW#:			

Preservation Codes:
A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Y Trizma, Z other (specify)
Other:

Analysis Requested

Sample Identification Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2510B/DL_Leach_WC Electrical Conductivity	9045D/DL_LEACH_NP	28B_SAR_Calc/29B_Prep_Solid	29B_ESP/29B_Prep_Solid (MOD) Copy Analytes	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
T-1 (1') (880-40932-21)	3/12/24	14:08 Central		Solid			X	X	X	X	2	

Hem368
3.6
3.6

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central LLC.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II III IV Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:
Empty Kit Relinquished by:	Date: Time: Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 3/16/24 9:13	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.
	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Crain Environmental

Job Number: 880-40932-1
SDG Number: Lea Co., NM

Login Number: 40932
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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

Login Sample Receipt Checklist

Client: Crain Environmental

Job Number: 880-40932-1
SDG Number: Lea Co., NM

Login Number: 40932
List Number: 2
Creator: Baker, Jeremiah

List Source: Eurofins Houston
List Creation: 03/16/24 11:42 AM

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

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 10/3/2024 3:30:44 PM

JOB DESCRIPTION

Chem State #1 Well
Lea Co., NM

JOB NUMBER

880-49108-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Eurofins Midland

Job Notes

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

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

Authorization

Generated
10/3/2024 3:30:44 PM

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

Client: Crain Environmental
Project/Site: Chem State #1 Well

Laboratory Job ID: 880-49108-1
SDG: Lea Co., NM

Table of Contents

Definitions/Glossary

Client: Crain Environmental
Project/Site: Chem State #1 Well

Job ID: 880-49108-1
SDG: Lea Co., NM

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Crain Environmental
Project: Chem State #1 Well

Job ID: 880-49108-1

Job ID: 880-49108-1 Eurofins Midland

Job Narrative
880-49108-1

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

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

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

Receipt
The samples were received on 9/27/2024 1:45 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.1°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: S-11 (0-4') (880-49108-1), S-11 (4-6') (880-49108-2), S-12 (0-4') (880-49108-3), S-12 (4-6') (880-49108-4), S-13 (0-4') (880-49108-5), S-13 (4-6') (880-49108-6), S-14 (0-4') (880-49108-7), S-14 (4-6') (880-49108-8), S-15 (6') (880-49108-9), Stockpile 1 (880-49108-10), Stockpile 2 (880-49108-11), Stockpile 3 (880-49108-12) and Stockpile 4 (880-49108-13).

GC VOA
Method 8021B: Surrogate recovery for the following sample was outside control limits: S-13 (4-6') (880-49108-6). Evidence of matrix interferences is not obvious.

Method 8021B: The matrix spike duplicate (MSD) recoveries for preparation batch 880-92116 and analytical batch 880-92216 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: S-12 (0-4') (880-49108-3) and S-12 (4-6') (880-49108-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

Diesel Range Organics
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-92041 and analytical batch 880-92279 was outside the upper control limits.

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

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

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: S-12 (0-4') (880-49108-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

HPLC/IC
Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-92154 and analytical batch 880-92241 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Eurofins Midland

Case Narrative

Client: Crain Environmental
Project: Chem State #1 Well

Job ID: 880-49108-1

Job ID: 880-49108-1 (Continued) Eurofins Midland

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-92145 and analytical batch 880-92250 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client Sample Results

Client: Crain Environmental
Project/Site: Chem State #1 Well

Job ID: 880-49108-1
SDG: Lea Co., NM

Client Sample ID: S-11 (0-4')

Lab Sample ID: 880-49108-1
Matrix: Solid
Date Collected: 09/26/24 09:25
Date Received: 09/27/24 13:45
Sample Depth: 0-4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/30/24 11:06	10/01/24 20:03	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/30/24 11:06	10/01/24 20:03	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/30/24 11:06	10/01/24 20:03	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/30/24 11:06	10/01/24 20:03	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/30/24 11:06	10/01/24 20:03	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/30/24 11:06	10/01/24 20:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*09/30/24 11:06*	*10/01/24 20:03*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*09/30/24 11:06*	*10/01/24 20:03*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/01/24 20:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**115**		49.8		mg/Kg			10/02/24 03:40	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	<49.8	U	49.8		mg/Kg		09/29/24 20:31	10/02/24 03:40	1
Diesel Range Organics (Over C10-C28)	**115**		49.8		mg/Kg		09/29/24 20:31	10/02/24 03:40	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/29/24 20:31	10/02/24 03:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 130*	*09/29/24 20:31*	*10/02/24 03:40*	*1*
o-Terphenyl	*92*		*70 - 130*	*09/29/24 20:31*	*10/02/24 03:40*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**605**	**F1**	24.8		mg/Kg			10/03/24 04:40	5

Client Sample ID: S-11 (4-6')

Lab Sample ID: 880-49108-2
Matrix: Solid
Date Collected: 09/26/24 09:30
Date Received: 09/27/24 13:45
Sample Depth: 4-6'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/30/24 11:06	10/01/24 20:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/30/24 11:06	10/01/24 20:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/30/24 11:06	10/01/24 20:23	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/30/24 11:06	10/01/24 20:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/30/24 11:06	10/01/24 20:23	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/30/24 11:06	10/01/24 20:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*09/30/24 11:06*	*10/01/24 20:23*	*1*

Client Sample Results

Client: Crain Environmental
Project/Site: Chem State #1 Well

Job ID: 880-49108-1
SDG: Lea Co., NM

Client Sample ID: S-11 (4-6')

Date Collected: 09/26/24 09:30
Date Received: 09/27/24 13:45
Sample Depth: 4-6'

Lab Sample ID: 880-49108-2
Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*09/30/24 11:06*	*10/01/24 20:23*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			10/01/24 20:23	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			10/02/24 03:55	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		09/29/24 20:31	10/02/24 03:55	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/29/24 20:31	10/02/24 03:55	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/29/24 20:31	10/02/24 03:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*108*		*70 - 130*	*09/29/24 20:31*	*10/02/24 03:55*	*1*
o-Terphenyl	*112*		*70 - 130*	*09/29/24 20:31*	*10/02/24 03:55*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1530**		24.8		mg/Kg			10/03/24 04:59	5

Client Sample ID: S-12 (0-4')

Date Collected: 09/26/24 09:35
Date Received: 09/27/24 13:45
Sample Depth: 0-4'

Lab Sample ID: 880-49108-3
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00588**		0.00200		mg/Kg		09/30/24 11:06	10/01/24 20:44	1
Toluene	**0.0672**		0.00200		mg/Kg		09/30/24 11:06	10/01/24 20:44	1
Ethylbenzene	**0.00777**		0.00200		mg/Kg		09/30/24 11:06	10/01/24 20:44	1
m-Xylene & p-Xylene	**0.0278**		0.00401		mg/Kg		09/30/24 11:06	10/01/24 20:44	1
o-Xylene	**0.156**		0.00200		mg/Kg		09/30/24 11:06	10/01/24 20:44	1
Xylenes, Total	**0.184**		0.00401		mg/Kg		09/30/24 11:06	10/01/24 20:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*134*	*S1+*	*70 - 130*	*09/30/24 11:06*	*10/01/24 20:44*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*09/30/24 11:06*	*10/01/24 20:44*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.265**		0.00401		mg/Kg			10/01/24 20:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**6460**		49.7		mg/Kg			10/01/24 23:12	1

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Client Sample Results

Client: Crain Environmental
Project/Site: Chem State #1 Well

Job ID: 880-49108-1
SDG: Lea Co., NM

Client Sample ID: S-12 (0-4')

Lab Sample ID: 880-49108-3
Matrix: Solid
Date Collected: 09/26/24 09:35
Date Received: 09/27/24 13:45
Sample Depth: 0-4'

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	**128**	***+**	49.7		mg/Kg		09/29/24 20:34	10/01/24 23:12	1
Diesel Range Organics (Over C10-C28)	**6330**	***+**	49.7		mg/Kg		09/29/24 20:34	10/01/24 23:12	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		09/29/24 20:34	10/01/24 23:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*09/29/24 20:34*	*10/01/24 23:12*	*1*
o-Terphenyl	*211*	*S1+*	*70 - 130*	*09/29/24 20:34*	*10/01/24 23:12*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3360**		46.3		mg/Kg			10/03/24 05:05	10

Client Sample ID: S-12 (4-6')

Lab Sample ID: 880-49108-4
Matrix: Solid
Date Collected: 09/26/24 09:40
Date Received: 09/27/24 13:45
Sample Depth: 4-6'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/30/24 11:06	10/01/24 21:04	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/30/24 11:06	10/01/24 21:04	1
Ethylbenzene	**0.0375**		0.00199		mg/Kg		09/30/24 11:06	10/01/24 21:04	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/30/24 11:06	10/01/24 21:04	1
o-Xylene	**0.00460**		0.00199		mg/Kg		09/30/24 11:06	10/01/24 21:04	1
Xylenes, Total	**0.00460**		0.00398		mg/Kg		09/30/24 11:06	10/01/24 21:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*144*	*S1+*	*70 - 130*	*09/30/24 11:06*	*10/01/24 21:04*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*09/30/24 11:06*	*10/01/24 21:04*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0421**		0.00398		mg/Kg			10/01/24 21:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**128**		49.8		mg/Kg			10/01/24 23:26	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		09/29/24 20:34	10/01/24 23:26	1
Diesel Range Organics (Over C10-C28)	**128**	***+**	49.8		mg/Kg		09/29/24 20:34	10/01/24 23:26	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/29/24 20:34	10/01/24 23:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*82*		*70 - 130*	*09/29/24 20:34*	*10/01/24 23:26*	*1*
o-Terphenyl	*97*		*70 - 130*	*09/29/24 20:34*	*10/01/24 23:26*	*1*

Client Sample Results

Client: Crain Environmental
Project/Site: Chem State #1 Well

Job ID: 880-49108-1
SDG: Lea Co., NM

Client Sample ID: S-12 (4-6')

Lab Sample ID: 880-49108-4
Matrix: Solid
Date Collected: 09/26/24 09:40
Date Received: 09/27/24 13:45
Sample Depth: 4-6'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2790		25.0		mg/Kg			10/03/24 05:24	5

Client Sample ID: S-13 (0-4')

Lab Sample ID: 880-49108-5
Matrix: Solid
Date Collected: 09/26/24 09:45
Date Received: 09/27/24 13:45
Sample Depth: 0-4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/30/24 10:59	10/01/24 11:57	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/30/24 10:59	10/01/24 11:57	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/30/24 10:59	10/01/24 11:57	1
m-Xylene & p-Xylene	<0.00402	U F1	0.00402		mg/Kg		09/30/24 10:59	10/01/24 11:57	1
o-Xylene	<0.00201	U F1	0.00201		mg/Kg		09/30/24 10:59	10/01/24 11:57	1
Xylenes, Total	<0.00402	U F1	0.00402		mg/Kg		09/30/24 10:59	10/01/24 11:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*09/30/24 10:59*	*10/01/24 11:57*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*09/30/24 10:59*	*10/01/24 11:57*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			10/01/24 11:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			10/01/24 23:43	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	<50.0	U *+	50.0		mg/Kg		09/29/24 20:34	10/01/24 23:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U *+	50.0		mg/Kg		09/29/24 20:34	10/01/24 23:43	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/29/24 20:34	10/01/24 23:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*114*		*70 - 130*	*09/29/24 20:34*	*10/01/24 23:43*	*1*
o-Terphenyl	*127*		*70 - 130*	*09/29/24 20:34*	*10/01/24 23:43*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1350		24.8		mg/Kg			10/03/24 05:31	5

Client Sample Results

Client: Crain Environmental
Project/Site: Chem State #1 Well

Job ID: 880-49108-1
SDG: Lea Co., NM

Client Sample ID: S-13 (4-6')

Date Collected: 09/26/24 09:50
Date Received: 09/27/24 13:45
Sample Depth: 4-6'

Lab Sample ID: 880-49108-6

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/30/24 10:59	10/01/24 12:17	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/30/24 10:59	10/01/24 12:17	1
Ethylbenzene	**0.00692**		0.00200		mg/Kg		09/30/24 10:59	10/01/24 12:17	1
m-Xylene & p-Xylene	**0.0108**		0.00399		mg/Kg		09/30/24 10:59	10/01/24 12:17	1
o-Xylene	**0.0504**		0.00200		mg/Kg		09/30/24 10:59	10/01/24 12:17	1
Xylenes, Total	**0.0612**		0.00399		mg/Kg		09/30/24 10:59	10/01/24 12:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*138*	*S1+*	*70 - 130*	*09/30/24 10:59*	*10/01/24 12:17*	*1*
1,4-Difluorobenzene (Surr)	*116*		*70 - 130*	*09/30/24 10:59*	*10/01/24 12:17*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0681**		0.00399		mg/Kg			10/01/24 12:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**2010**		49.7		mg/Kg			10/01/24 23:57	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	<49.7	U *+	49.7		mg/Kg		09/29/24 20:34	10/01/24 23:57	1
Diesel Range Organics (Over C10-C28)	**2010**	***+**	49.7		mg/Kg		09/29/24 20:34	10/01/24 23:57	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		09/29/24 20:34	10/01/24 23:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*87*		*70 - 130*	*09/29/24 20:34*	*10/01/24 23:57*	*1*
o-Terphenyl	*130*		*70 - 130*	*09/29/24 20:34*	*10/01/24 23:57*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6700**		50.5		mg/Kg			10/03/24 05:37	10

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

Date Collected: 09/26/24 09:55
Date Received: 09/27/24 13:45
Sample Depth: 0-4'

Lab Sample ID: 880-49108-7

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/30/24 10:59	10/01/24 12:38	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/30/24 10:59	10/01/24 12:38	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/30/24 10:59	10/01/24 12:38	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/30/24 10:59	10/01/24 12:38	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/30/24 10:59	10/01/24 12:38	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/30/24 10:59	10/01/24 12:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*09/30/24 10:59*	*10/01/24 12:38*	*1*

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Client Sample Results

Client: Crain Environmental
Project/Site: Chem State #1 Well

Job ID: 880-49108-1
SDG: Lea Co., NM

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

Lab Sample ID: 880-49108-7
Matrix: Solid
Date Collected: 09/26/24 09:55
Date Received: 09/27/24 13:45
Sample Depth: 0-4'

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*09/30/24 10:59*	*10/01/24 12:38*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/01/24 12:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**76.5**		49.8		mg/Kg			10/02/24 00:11	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		09/29/24 20:34	10/02/24 00:11	1
Diesel Range Organics (Over C10-C28)	**76.5**	***+**	49.8		mg/Kg		09/29/24 20:34	10/02/24 00:11	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/29/24 20:34	10/02/24 00:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 130*	*09/29/24 20:34*	*10/02/24 00:11*	*1*
o-Terphenyl	*98*		*70 - 130*	*09/29/24 20:34*	*10/02/24 00:11*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**733**		24.9		mg/Kg			10/03/24 11:32	5

Client Sample ID: S-14 (4-6')

Lab Sample ID: 880-49108-8
Matrix: Solid
Date Collected: 09/26/24 10:00
Date Received: 09/27/24 13:45
Sample Depth: 4-6'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/30/24 10:59	10/01/24 12:58	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/30/24 10:59	10/01/24 12:58	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/30/24 10:59	10/01/24 12:58	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/30/24 10:59	10/01/24 12:58	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/30/24 10:59	10/01/24 12:58	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/30/24 10:59	10/01/24 12:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*09/30/24 10:59*	*10/01/24 12:58*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*09/30/24 10:59*	*10/01/24 12:58*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			10/01/24 12:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			10/02/24 00:27	1

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Client Sample Results

Client: Crain Environmental
Project/Site: Chem State #1 Well

Job ID: 880-49108-1
SDG: Lea Co., NM

Client Sample ID: S-14 (4-6')

Lab Sample ID: 880-49108-8
Matrix: Solid
Date Collected: 09/26/24 10:00
Date Received: 09/27/24 13:45
Sample Depth: 4-6'

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		09/29/24 20:34	10/02/24 00:27	1
Diesel Range Organics (Over C10-C28)	<49.8	U *+	49.8		mg/Kg		09/29/24 20:34	10/02/24 00:27	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/29/24 20:34	10/02/24 00:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 130*	*09/29/24 20:34*	*10/02/24 00:27*	*1*
o-Terphenyl	*96*		*70 - 130*	*09/29/24 20:34*	*10/02/24 00:27*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**565**		24.9		mg/Kg			10/03/24 05:45	5

Client Sample ID: S-15 (6')

Lab Sample ID: 880-49108-9
Matrix: Solid
Date Collected: 09/26/24 10:05
Date Received: 09/27/24 13:45
Sample Depth: 6'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/30/24 10:59	10/01/24 13:19	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/30/24 10:59	10/01/24 13:19	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/30/24 10:59	10/01/24 13:19	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/30/24 10:59	10/01/24 13:19	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/30/24 10:59	10/01/24 13:19	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/30/24 10:59	10/01/24 13:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*09/30/24 10:59*	*10/01/24 13:19*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*09/30/24 10:59*	*10/01/24 13:19*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			10/01/24 13:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**1860**		50.0		mg/Kg			10/02/24 00:41	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	<50.0	U *+	50.0		mg/Kg		09/29/24 20:34	10/02/24 00:41	1
Diesel Range Organics (Over C10-C28)	**1860**	***+**	50.0		mg/Kg		09/29/24 20:34	10/02/24 00:41	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/29/24 20:34	10/02/24 00:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*80*		*70 - 130*	*09/29/24 20:34*	*10/02/24 00:41*	*1*
o-Terphenyl	*103*		*70 - 130*	*09/29/24 20:34*	*10/02/24 00:41*	*1*

Client Sample Results

Client: Crain Environmental
Project/Site: Chem State #1 Well

Job ID: 880-49108-1
SDG: Lea Co., NM

Client Sample ID: S-15 (6')

Lab Sample ID: 880-49108-9
Matrix: Solid
Date Collected: 09/26/24 10:05
Date Received: 09/27/24 13:45
Sample Depth: 6'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1840		25.2		mg/Kg			10/03/24 05:51	5

Client Sample ID: Stockpile 1

Lab Sample ID: 880-49108-10
Matrix: Solid
Date Collected: 09/26/24 09:00
Date Received: 09/27/24 13:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/30/24 10:59	10/01/24 13:39	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/30/24 10:59	10/01/24 13:39	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/30/24 10:59	10/01/24 13:39	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/30/24 10:59	10/01/24 13:39	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/30/24 10:59	10/01/24 13:39	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/30/24 10:59	10/01/24 13:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*09/30/24 10:59*	*10/01/24 13:39*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*09/30/24 10:59*	*10/01/24 13:39*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			10/01/24 13:39	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			10/02/24 00:58	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		09/29/24 20:34	10/02/24 00:58	1
Diesel Range Organics (Over C10-C28)	<49.9	U *+	49.9		mg/Kg		09/29/24 20:34	10/02/24 00:58	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/29/24 20:34	10/02/24 00:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*82*		*70 - 130*	*09/29/24 20:34*	*10/02/24 00:58*	*1*
o-Terphenyl	*89*		*70 - 130*	*09/29/24 20:34*	*10/02/24 00:58*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	607		5.03		mg/Kg			10/03/24 05:58	1

Client Sample ID: Stockpile 2

Lab Sample ID: 880-49108-11
Matrix: Solid
Date Collected: 09/26/24 09:05
Date Received: 09/27/24 13:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/30/24 10:59	10/01/24 14:00	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/30/24 10:59	10/01/24 14:00	1

Client Sample Results

Client: Crain Environmental
Project/Site: Chem State #1 Well

Job ID: 880-49108-1
SDG: Lea Co., NM

Client Sample ID: Stockpile 2

Date Collected: 09/26/24 09:05
Date Received: 09/27/24 13:45

Lab Sample ID: 880-49108-11

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/30/24 10:59	10/01/24 14:00	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/30/24 10:59	10/01/24 14:00	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/30/24 10:59	10/01/24 14:00	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/30/24 10:59	10/01/24 14:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*09/30/24 10:59*	*10/01/24 14:00*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*09/30/24 10:59*	*10/01/24 14:00*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			10/01/24 14:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			10/02/24 01:12	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	<50.0	U *+	50.0		mg/Kg		09/29/24 20:34	10/02/24 01:12	1
Diesel Range Organics (Over C10-C28)	<50.0	U *+	50.0		mg/Kg		09/29/24 20:34	10/02/24 01:12	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/29/24 20:34	10/02/24 01:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*80*		*70 - 130*	*09/29/24 20:34*	*10/02/24 01:12*	*1*
o-Terphenyl	*88*		*70 - 130*	*09/29/24 20:34*	*10/02/24 01:12*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1140**	**F1**	24.8		mg/Kg			10/02/24 05:55	5

Client Sample ID: Stockpile 3

Date Collected: 09/26/24 09:10
Date Received: 09/27/24 13:45

Lab Sample ID: 880-49108-12

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/30/24 10:59	10/01/24 14:21	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/30/24 10:59	10/01/24 14:21	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/30/24 10:59	10/01/24 14:21	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/30/24 10:59	10/01/24 14:21	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/30/24 10:59	10/01/24 14:21	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/30/24 10:59	10/01/24 14:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*09/30/24 10:59*	*10/01/24 14:21*	*1*
1,4-Difluorobenzene (Surr)	*77*		*70 - 130*	*09/30/24 10:59*	*10/01/24 14:21*	*1*

Client Sample Results

Client: Crain Environmental
Project/Site: Chem State #1 Well

Job ID: 880-49108-1
SDG: Lea Co., NM

Client Sample ID: Stockpile 3

Date Collected: 09/26/24 09:10
Date Received: 09/27/24 13:45

Lab Sample ID: 880-49108-12
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			10/01/24 14:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			10/02/24 01:42	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	<50.0	U *+	50.0		mg/Kg		09/29/24 20:34	10/02/24 01:42	1
Diesel Range Organics (Over C10-C28)	<50.0	U *+	50.0		mg/Kg		09/29/24 20:34	10/02/24 01:42	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/29/24 20:34	10/02/24 01:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*75*		*70 - 130*	*09/29/24 20:34*	*10/02/24 01:42*	*1*
o-Terphenyl	*81*		*70 - 130*	*09/29/24 20:34*	*10/02/24 01:42*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**749**		4.96		mg/Kg			10/02/24 06:11	1

Client Sample ID: Stockpile 4

Date Collected: 09/26/24 09:15
Date Received: 09/27/24 13:45

Lab Sample ID: 880-49108-13
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/30/24 10:59	10/01/24 14:41	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/30/24 10:59	10/01/24 14:41	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/30/24 10:59	10/01/24 14:41	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/30/24 10:59	10/01/24 14:41	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/30/24 10:59	10/01/24 14:41	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/30/24 10:59	10/01/24 14:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*09/30/24 10:59*	*10/01/24 14:41*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*09/30/24 10:59*	*10/01/24 14:41*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			10/01/24 14:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			10/02/24 01:56	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	<50.0	U *+	50.0		mg/Kg		09/29/24 20:34	10/02/24 01:56	1
Diesel Range Organics (Over C10-C28)	<50.0	U *+	50.0		mg/Kg		09/29/24 20:34	10/02/24 01:56	1

Eurofins Midland

Client Sample Results

Client: Crain Environmental
Project/Site: Chem State #1 Well

Job ID: 880-49108-1
SDG: Lea Co., NM

Client Sample ID: Stockpile 4

Date Collected: 09/26/24 09:15
Date Received: 09/27/24 13:45

Lab Sample ID: 880-49108-13

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/29/24 20:34	10/02/24 01:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*78*		*70 - 130*	*09/29/24 20:34*	*10/02/24 01:56*	*1*
o-Terphenyl	*84*		*70 - 130*	*09/29/24 20:34*	*10/02/24 01:56*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4380**		49.9		mg/Kg			10/02/24 06:17	10

Surrogate Summary

Client: Crain Environmental
Project/Site: Chem State #1 Well

Job ID: 880-49108-1
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)										
880-49108-1	S-11 (0-4')	105	103										
880-49108-2	S-11 (4-6')	102	103										
880-49108-3	S-12 (0-4')	134 S1+	106										
880-49108-4	S-12 (4-6')	144 S1+	105										
880-49108-5	S-13 (0-4')	90	97										
880-49108-5 MS	S-13 (0-4')	110	116										
880-49108-5 MSD	S-13 (0-4')	96	112										
880-49108-6	S-13 (4-6')	138 S1+	116										
880-49108-7	S-14 (0-4')	90	87										
880-49108-8	S-14 (4-6')	107	91										
880-49108-9	S-15 (6')	87	85										
880-49108-10	Stockpile 1	88	84										
880-49108-11	Stockpile 2	88	94										
880-49108-12	Stockpile 3	88	77										
880-49108-13	Stockpile 4	97	93										
LCS 880-92116/1-A	Lab Control Sample	95	124										
LCS 880-92118/1-A	Lab Control Sample	105	100										
LCSD 880-92116/2-A	Lab Control Sample Dup	88	122										
LCSD 880-92118/2-A	Lab Control Sample Dup	101	103										
MB 880-92116/5-A	Method Blank	82	100										
MB 880-92118/5-A	Method Blank	103	99										

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)										
880-49108-1	S-11 (0-4')	91	92										
880-49108-2	S-11 (4-6')	108	112										
880-49108-3	S-12 (0-4')	99	211 S1+										
880-49108-4	S-12 (4-6')	82	97										
880-49108-5	S-13 (0-4')	114	127										
880-49108-6	S-13 (4-6')	87	130										
880-49108-7	S-14 (0-4')	85	98										
880-49108-8	S-14 (4-6')	84	96										
880-49108-9	S-15 (6')	80	103										
880-49108-10	Stockpile 1	82	89										
880-49108-11	Stockpile 2	80	88										
880-49108-12	Stockpile 3	75	81										
880-49108-13	Stockpile 4	78	84										
LCS 880-92041/2-A	Lab Control Sample	112	110										
LCS 880-92042/2-A	Lab Control Sample	149 S1+	144 S1+										
LCSD 880-92041/3-A	Lab Control Sample Dup	126	127										
LCSD 880-92042/3-A	Lab Control Sample Dup	136 S1+	131 S1+										
MB 880-92041/1-A	Method Blank	145 S1+	143 S1+										

Surrogate Summary

Client: Crain Environmental
Job ID: 880-49108-1
Project/Site: Chem State #1 Well
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 (70-130)	OTPH1 (70-130)								
MB 880-92042/1-A	Method Blank	70	75								

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Crain Environmental
Project/Site: Chem State #1 Well

Job ID: 880-49108-1
SDG: Lea Co., NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-92116/5-A
Matrix: Solid
Analysis Batch: 92216

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 92116

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/30/24 10:59	10/01/24 11:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/30/24 10:59	10/01/24 11:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/30/24 10:59	10/01/24 11:35	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/30/24 10:59	10/01/24 11:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/30/24 10:59	10/01/24 11:35	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/30/24 10:59	10/01/24 11:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*		*70 - 130*	*09/30/24 10:59*	*10/01/24 11:35*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*09/30/24 10:59*	*10/01/24 11:35*	*1*

Lab Sample ID: LCS 880-92116/1-A
Matrix: Solid
Analysis Batch: 92216

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 92116

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1020		mg/Kg		102	70 - 130
Toluene	0.100	0.09374		mg/Kg		94	70 - 130
Ethylbenzene	0.100	0.08694		mg/Kg		87	70 - 130
m-Xylene & p-Xylene	0.200	0.1688		mg/Kg		84	70 - 130
o-Xylene	0.100	0.08385		mg/Kg		84	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*
1,4-Difluorobenzene (Surr)	*124*		*70 - 130*

Lab Sample ID: LCSD 880-92116/2-A
Matrix: Solid
Analysis Batch: 92216

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 92116

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1011		mg/Kg		101	70 - 130	1	35
Toluene	0.100	0.08761		mg/Kg		88	70 - 130	7	35
Ethylbenzene	0.100	0.08184		mg/Kg		82	70 - 130	6	35
m-Xylene & p-Xylene	0.200	0.1543		mg/Kg		77	70 - 130	9	35
o-Xylene	0.100	0.07753		mg/Kg		78	70 - 130	8	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*
1,4-Difluorobenzene (Surr)	*122*		*70 - 130*

Lab Sample ID: 880-49108-5 MS
Matrix: Solid
Analysis Batch: 92216

Client Sample ID: S-13 (0-4')
Prep Type: Total/NA
Prep Batch: 92116

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.100	0.09322		mg/Kg		93	70 - 130
Toluene	<0.00201	U	0.100	0.08552		mg/Kg		86	70 - 130

Eurofins Midland

QC Sample Results

Client: Crain Environmental
Project/Site: Chem State #1 Well

Job ID: 880-49108-1
SDG: Lea Co., NM

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

Lab Sample ID: 880-49108-5 MS
Matrix: Solid
Analysis Batch: 92216

Client Sample ID: S-13 (0-4')
Prep Type: Total/NA
Prep Batch: 92116

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00201	U	0.100	0.09201		mg/Kg		92	70 - 130
m-Xylene & p-Xylene	<0.00402	U F1	0.200	0.1692		mg/Kg		85	70 - 130
o-Xylene	<0.00201	U F1	0.100	0.08717		mg/Kg		87	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*
1,4-Difluorobenzene (Surr)	*116*		*70 - 130*

Lab Sample ID: 880-49108-5 MSD
Matrix: Solid
Analysis Batch: 92216

Client Sample ID: S-13 (0-4')
Prep Type: Total/NA
Prep Batch: 92116

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.100	0.08385		mg/Kg		84	70 - 130	11	35
Toluene	<0.00201	U	0.100	0.07941		mg/Kg		79	70 - 130	7	35
Ethylbenzene	<0.00201	U	0.100	0.07453		mg/Kg		75	70 - 130	21	35
m-Xylene & p-Xylene	<0.00402	U F1	0.200	0.1347	F1	mg/Kg		67	70 - 130	23	35
o-Xylene	<0.00201	U F1	0.100	0.06726	F1	mg/Kg		67	70 - 130	26	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*

Lab Sample ID: MB 880-92118/5-A
Matrix: Solid
Analysis Batch: 92214

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 92118

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/30/24 11:06	10/01/24 13:07	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/30/24 11:06	10/01/24 13:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/30/24 11:06	10/01/24 13:07	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/30/24 11:06	10/01/24 13:07	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/30/24 11:06	10/01/24 13:07	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/30/24 11:06	10/01/24 13:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*09/30/24 11:06*	*10/01/24 13:07*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*09/30/24 11:06*	*10/01/24 13:07*	*1*

Lab Sample ID: LCS 880-92118/1-A
Matrix: Solid
Analysis Batch: 92214

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 92118

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09254		mg/Kg		93	70 - 130
Toluene	0.100	0.08706		mg/Kg		87	70 - 130
Ethylbenzene	0.100	0.08786		mg/Kg		88	70 - 130
m-Xylene & p-Xylene	0.200	0.1884		mg/Kg		94	70 - 130

QC Sample Results

Client: Crain Environmental
Project/Site: Chem State #1 Well

Job ID: 880-49108-1
SDG: Lea Co., NM

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

Lab Sample ID: LCS 880-92118/1-A
Matrix: Solid
Analysis Batch: 92214

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 92118

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
o-Xylene			0.100	0.09428		mg/Kg		94	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 880-92118/2-A
Matrix: Solid
Analysis Batch: 92214

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 92118

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.08638		mg/Kg		86	70 - 130	7	35
Toluene			0.100	0.08080		mg/Kg		81	70 - 130	7	35
Ethylbenzene			0.100	0.08134		mg/Kg		81	70 - 130	8	35
m-Xylene & p-Xylene			0.200	0.1756		mg/Kg		88	70 - 130	7	35
o-Xylene			0.100	0.08855		mg/Kg		89	70 - 130	6	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

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

Lab Sample ID: MB 880-92041/1-A
Matrix: Solid
Analysis Batch: 92279

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 92041

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		09/29/24 20:31	10/01/24 21:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/29/24 20:31	10/01/24 21:43	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/29/24 20:31	10/01/24 21:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*145*	*S1+*	*70 - 130*	*09/29/24 20:31*	*10/01/24 21:43*	*1*
o-Terphenyl	*143*	*S1+*	*70 - 130*	*09/29/24 20:31*	*10/01/24 21:43*	*1*

Lab Sample ID: LCS 880-92041/2-A
Matrix: Solid
Analysis Batch: 92279

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 92041

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	974.6		mg/Kg		97	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1135		mg/Kg		113	70 - 130		

QC Sample Results

Client: Crain Environmental
Project/Site: Chem State #1 Well

Job ID: 880-49108-1
SDG: Lea Co., NM

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

Lab Sample ID: LCS 880-92041/2-A
Matrix: Solid
Analysis Batch: 92279

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 92041

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	112		70 - 130
o-Terphenyl	110		70 - 130

Lab Sample ID: LCSD 880-92041/3-A
Matrix: Solid
Analysis Batch: 92279

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 92041

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1086		mg/Kg		109	70 - 130	11	20
Diesel Range Organics (Over C10-C28)			1000	1297		mg/Kg		130	70 - 130	13	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	126		70 - 130
o-Terphenyl	127		70 - 130

Lab Sample ID: MB 880-92042/1-A
Matrix: Solid
Analysis Batch: 92281

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

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		09/29/24 20:34	10/01/24 21:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/29/24 20:34	10/01/24 21:43	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/29/24 20:34	10/01/24 21:43	1

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

Lab Sample ID: LCS 880-92042/2-A
Matrix: Solid
Analysis Batch: 92281

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 92042

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

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

QC Sample Results

Client: Crain Environmental
Project/Site: Chem State #1 Well

Job ID: 880-49108-1
SDG: Lea Co., NM

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

Lab Sample ID: LCSD 880-92042/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 92281 — **Prep Batch: 92042**

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

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

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-92154/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 92241

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			10/02/24 05:39	1

Lab Sample ID: LCS 880-92154/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 92241

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

Lab Sample ID: LCSD 880-92154/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 92241

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	250.0		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 880-49108-11 MS — **Client Sample ID: Stockpile 2**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 92241

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	1140	F1	1240	2540	F1	mg/Kg		113	90 - 110		

Lab Sample ID: 880-49108-11 MSD — **Client Sample ID: Stockpile 2**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 92241

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1140	F1	1240	2550	F1	mg/Kg		114	90 - 110	0	20

QC Sample Results

Client: Crain Environmental
Project/Site: Chem State #1 Well

Job ID: 880-49108-1
SDG: Lea Co., NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 880-92145/1-A
Matrix: Solid
Analysis Batch: 92250

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			10/03/24 02:51	1

Lab Sample ID: LCS 880-92145/2-A
Matrix: Solid
Analysis Batch: 92250

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	268.1		mg/Kg		107	90 - 110		

Lab Sample ID: LCSD 880-92145/3-A
Matrix: Solid
Analysis Batch: 92250

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	264.0		mg/Kg		106	90 - 110	2	20

Lab Sample ID: 880-49108-1 MS
Matrix: Solid
Analysis Batch: 92250

Client Sample ID: S-11 (0-4')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	605	F1	1240	2016	F1	mg/Kg		114	90 - 110		

Lab Sample ID: 880-49108-1 MSD
Matrix: Solid
Analysis Batch: 92250

Client Sample ID: S-11 (0-4')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	605	F1	1240	2023	F1	mg/Kg		114	90 - 110	0	20

QC Association Summary

Client: Crain Environmental
Project/Site: Chem State #1 Well

Job ID: 880-49108-1
SDG: Lea Co., NM

GC VOA

Prep Batch: 92116

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49108-5	S-13 (0-4')	Total/NA	Solid	5035	
880-49108-6	S-13 (4-6')	Total/NA	Solid	5035	
880-49108-7	S-14 (0-4')	Total/NA	Solid	5035	
880-49108-8	S-14 (4-6')	Total/NA	Solid	5035	
880-49108-9	S-15 (6')	Total/NA	Solid	5035	
880-49108-10	Stockpile 1	Total/NA	Solid	5035	
880-49108-11	Stockpile 2	Total/NA	Solid	5035	
880-49108-12	Stockpile 3	Total/NA	Solid	5035	
880-49108-13	Stockpile 4	Total/NA	Solid	5035	
MB 880-92116/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-92116/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-92116/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-49108-5 MS	S-13 (0-4')	Total/NA	Solid	5035	
880-49108-5 MSD	S-13 (0-4')	Total/NA	Solid	5035	

Prep Batch: 92118

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49108-1	S-11 (0-4')	Total/NA	Solid	5035	
880-49108-2	S-11 (4-6')	Total/NA	Solid	5035	
880-49108-3	S-12 (0-4')	Total/NA	Solid	5035	
880-49108-4	S-12 (4-6')	Total/NA	Solid	5035	
MB 880-92118/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-92118/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-92118/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 92214

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49108-1	S-11 (0-4')	Total/NA	Solid	8021B	92118
880-49108-2	S-11 (4-6')	Total/NA	Solid	8021B	92118
880-49108-3	S-12 (0-4')	Total/NA	Solid	8021B	92118
880-49108-4	S-12 (4-6')	Total/NA	Solid	8021B	92118
MB 880-92118/5-A	Method Blank	Total/NA	Solid	8021B	92118
LCS 880-92118/1-A	Lab Control Sample	Total/NA	Solid	8021B	92118
LCSD 880-92118/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	92118

Analysis Batch: 92216

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49108-5	S-13 (0-4')	Total/NA	Solid	8021B	92116
880-49108-6	S-13 (4-6')	Total/NA	Solid	8021B	92116
880-49108-7	S-14 (0-4')	Total/NA	Solid	8021B	92116
880-49108-8	S-14 (4-6')	Total/NA	Solid	8021B	92116
880-49108-9	S-15 (6')	Total/NA	Solid	8021B	92116
880-49108-10	Stockpile 1	Total/NA	Solid	8021B	92116
880-49108-11	Stockpile 2	Total/NA	Solid	8021B	92116
880-49108-12	Stockpile 3	Total/NA	Solid	8021B	92116
880-49108-13	Stockpile 4	Total/NA	Solid	8021B	92116
MB 880-92116/5-A	Method Blank	Total/NA	Solid	8021B	92116
LCS 880-92116/1-A	Lab Control Sample	Total/NA	Solid	8021B	92116
LCSD 880-92116/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	92116
880-49108-5 MS	S-13 (0-4')	Total/NA	Solid	8021B	92116
880-49108-5 MSD	S-13 (0-4')	Total/NA	Solid	8021B	92116

QC Association Summary

Client: Crain Environmental
Project/Site: Chem State #1 Well

Job ID: 880-49108-1
SDG: Lea Co., NM

GC VOA

Analysis Batch: 92303

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49108-1	S-11 (0-4')	Total/NA	Solid	Total BTEX	
880-49108-2	S-11 (4-6')	Total/NA	Solid	Total BTEX	
880-49108-3	S-12 (0-4')	Total/NA	Solid	Total BTEX	
880-49108-4	S-12 (4-6')	Total/NA	Solid	Total BTEX	
880-49108-5	S-13 (0-4')	Total/NA	Solid	Total BTEX	
880-49108-6	S-13 (4-6')	Total/NA	Solid	Total BTEX	
880-49108-7	S-14 (0-4')	Total/NA	Solid	Total BTEX	
880-49108-8	S-14 (4-6')	Total/NA	Solid	Total BTEX	
880-49108-9	S-15 (6')	Total/NA	Solid	Total BTEX	
880-49108-10	Stockpile 1	Total/NA	Solid	Total BTEX	
880-49108-11	Stockpile 2	Total/NA	Solid	Total BTEX	
880-49108-12	Stockpile 3	Total/NA	Solid	Total BTEX	
880-49108-13	Stockpile 4	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 92041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49108-1	S-11 (0-4')	Total/NA	Solid	8015NM Prep	
880-49108-2	S-11 (4-6')	Total/NA	Solid	8015NM Prep	
MB 880-92041/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-92041/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-92041/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 92042

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49108-3	S-12 (0-4')	Total/NA	Solid	8015NM Prep	
880-49108-4	S-12 (4-6')	Total/NA	Solid	8015NM Prep	
880-49108-5	S-13 (0-4')	Total/NA	Solid	8015NM Prep	
880-49108-6	S-13 (4-6')	Total/NA	Solid	8015NM Prep	
880-49108-7	S-14 (0-4')	Total/NA	Solid	8015NM Prep	
880-49108-8	S-14 (4-6')	Total/NA	Solid	8015NM Prep	
880-49108-9	S-15 (6')	Total/NA	Solid	8015NM Prep	
880-49108-10	Stockpile 1	Total/NA	Solid	8015NM Prep	
880-49108-11	Stockpile 2	Total/NA	Solid	8015NM Prep	
880-49108-12	Stockpile 3	Total/NA	Solid	8015NM Prep	
880-49108-13	Stockpile 4	Total/NA	Solid	8015NM Prep	
MB 880-92042/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-92042/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-92042/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 92279

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49108-1	S-11 (0-4')	Total/NA	Solid	8015B NM	92041
880-49108-2	S-11 (4-6')	Total/NA	Solid	8015B NM	92041
MB 880-92041/1-A	Method Blank	Total/NA	Solid	8015B NM	92041
LCS 880-92041/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	92041
LCSD 880-92041/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	92041

QC Association Summary

Client: Crain Environmental
Project/Site: Chem State #1 Well

Job ID: 880-49108-1
SDG: Lea Co., NM

GC Semi VOA

Analysis Batch: 92281

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49108-3	S-12 (0-4')	Total/NA	Solid	8015B NM	92042
880-49108-4	S-12 (4-6')	Total/NA	Solid	8015B NM	92042
880-49108-5	S-13 (0-4')	Total/NA	Solid	8015B NM	92042
880-49108-6	S-13 (4-6')	Total/NA	Solid	8015B NM	92042
880-49108-7	S-14 (0-4')	Total/NA	Solid	8015B NM	92042
880-49108-8	S-14 (4-6')	Total/NA	Solid	8015B NM	92042
880-49108-9	S-15 (6')	Total/NA	Solid	8015B NM	92042
880-49108-10	Stockpile 1	Total/NA	Solid	8015B NM	92042
880-49108-11	Stockpile 2	Total/NA	Solid	8015B NM	92042
880-49108-12	Stockpile 3	Total/NA	Solid	8015B NM	92042
880-49108-13	Stockpile 4	Total/NA	Solid	8015B NM	92042
MB 880-92042/1-A	Method Blank	Total/NA	Solid	8015B NM	92042
LCS 880-92042/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	92042
LCSD 880-92042/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	92042

Analysis Batch: 92413

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49108-1	S-11 (0-4')	Total/NA	Solid	8015 NM	
880-49108-2	S-11 (4-6')	Total/NA	Solid	8015 NM	
880-49108-3	S-12 (0-4')	Total/NA	Solid	8015 NM	
880-49108-4	S-12 (4-6')	Total/NA	Solid	8015 NM	
880-49108-5	S-13 (0-4')	Total/NA	Solid	8015 NM	
880-49108-6	S-13 (4-6')	Total/NA	Solid	8015 NM	
880-49108-7	S-14 (0-4')	Total/NA	Solid	8015 NM	
880-49108-8	S-14 (4-6')	Total/NA	Solid	8015 NM	
880-49108-9	S-15 (6')	Total/NA	Solid	8015 NM	
880-49108-10	Stockpile 1	Total/NA	Solid	8015 NM	
880-49108-11	Stockpile 2	Total/NA	Solid	8015 NM	
880-49108-12	Stockpile 3	Total/NA	Solid	8015 NM	
880-49108-13	Stockpile 4	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 92145

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49108-1	S-11 (0-4')	Soluble	Solid	DI Leach	
880-49108-2	S-11 (4-6')	Soluble	Solid	DI Leach	
880-49108-3	S-12 (0-4')	Soluble	Solid	DI Leach	
880-49108-4	S-12 (4-6')	Soluble	Solid	DI Leach	
880-49108-5	S-13 (0-4')	Soluble	Solid	DI Leach	
880-49108-6	S-13 (4-6')	Soluble	Solid	DI Leach	
880-49108-7	S-14 (0-4')	Soluble	Solid	DI Leach	
880-49108-8	S-14 (4-6')	Soluble	Solid	DI Leach	
880-49108-9	S-15 (6')	Soluble	Solid	DI Leach	
880-49108-10	Stockpile 1	Soluble	Solid	DI Leach	
MB 880-92145/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-92145/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-92145/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-49108-1 MS	S-11 (0-4')	Soluble	Solid	DI Leach	
880-49108-1 MSD	S-11 (0-4')	Soluble	Solid	DI Leach	

QC Association Summary

Client: Crain Environmental
Project/Site: Chem State #1 Well

Job ID: 880-49108-1
SDG: Lea Co., NM

HPLC/IC

Leach Batch: 92154

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49108-11	Stockpile 2	Soluble	Solid	DI Leach	
880-49108-12	Stockpile 3	Soluble	Solid	DI Leach	
880-49108-13	Stockpile 4	Soluble	Solid	DI Leach	
MB 880-92154/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-92154/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-92154/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-49108-11 MS	Stockpile 2	Soluble	Solid	DI Leach	
880-49108-11 MSD	Stockpile 2	Soluble	Solid	DI Leach	

Analysis Batch: 92241

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49108-11	Stockpile 2	Soluble	Solid	300.0	92154
880-49108-12	Stockpile 3	Soluble	Solid	300.0	92154
880-49108-13	Stockpile 4	Soluble	Solid	300.0	92154
MB 880-92154/1-A	Method Blank	Soluble	Solid	300.0	92154
LCS 880-92154/2-A	Lab Control Sample	Soluble	Solid	300.0	92154
LCSD 880-92154/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	92154
880-49108-11 MS	Stockpile 2	Soluble	Solid	300.0	92154
880-49108-11 MSD	Stockpile 2	Soluble	Solid	300.0	92154

Analysis Batch: 92250

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49108-1	S-11 (0-4')	Soluble	Solid	300.0	92145
880-49108-2	S-11 (4-6')	Soluble	Solid	300.0	92145
880-49108-3	S-12 (0-4')	Soluble	Solid	300.0	92145
880-49108-4	S-12 (4-6')	Soluble	Solid	300.0	92145
880-49108-5	S-13 (0-4')	Soluble	Solid	300.0	92145
880-49108-6	S-13 (4-6')	Soluble	Solid	300.0	92145
880-49108-7	S-14 (0-4')	Soluble	Solid	300.0	92145
880-49108-8	S-14 (4-6')	Soluble	Solid	300.0	92145
880-49108-9	S-15 (6')	Soluble	Solid	300.0	92145
880-49108-10	Stockpile 1	Soluble	Solid	300.0	92145
MB 880-92145/1-A	Method Blank	Soluble	Solid	300.0	92145
LCS 880-92145/2-A	Lab Control Sample	Soluble	Solid	300.0	92145
LCSD 880-92145/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	92145
880-49108-1 MS	S-11 (0-4')	Soluble	Solid	300.0	92145
880-49108-1 MSD	S-11 (0-4')	Soluble	Solid	300.0	92145

Lab Chronicle

Client: Crain Environmental
Project/Site: Chem State #1 Well

Job ID: 880-49108-1
SDG: Lea Co., NM

Client Sample ID: S-11 (0-4')

Lab Sample ID: 880-49108-1
Matrix: Solid
Date Collected: 09/26/24 09:25
Date Received: 09/27/24 13:45

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	92118	09/30/24 11:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92214	10/01/24 20:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			92303	10/01/24 20:03	SM	EET MID
Total/NA	Analysis	8015 NM		1			92413	10/02/24 03:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10.00 mL	92041	09/29/24 20:31	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92279	10/02/24 03:40	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	92145	09/30/24 12:52	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	92250	10/03/24 04:40	CH	EET MID

Client Sample ID: S-11 (4-6')

Lab Sample ID: 880-49108-2
Matrix: Solid
Date Collected: 09/26/24 09:30
Date Received: 09/27/24 13:45

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	92118	09/30/24 11:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92214	10/01/24 20:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			92303	10/01/24 20:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			92413	10/02/24 03:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10.00 mL	92041	09/29/24 20:31	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92279	10/02/24 03:55	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	92145	09/30/24 12:52	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	92250	10/03/24 04:59	CH	EET MID

Client Sample ID: S-12 (0-4')

Lab Sample ID: 880-49108-3
Matrix: Solid
Date Collected: 09/26/24 09:35
Date Received: 09/27/24 13:45

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	92118	09/30/24 11:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92214	10/01/24 20:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			92303	10/01/24 20:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			92413	10/01/24 23:12	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10.00 mL	92042	09/29/24 20:34	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92281	10/01/24 23:12	TKC	EET MID
Soluble	Leach	DI Leach			5.40 g	50 mL	92145	09/30/24 12:52	SA	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	92250	10/03/24 05:05	CH	EET MID

Client Sample ID: S-12 (4-6')

Lab Sample ID: 880-49108-4
Matrix: Solid
Date Collected: 09/26/24 09:40
Date Received: 09/27/24 13:45

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	92118	09/30/24 11:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92214	10/01/24 21:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			92303	10/01/24 21:04	SM	EET MID

Lab Chronicle

Client: Crain Environmental
Project/Site: Chem State #1 Well

Job ID: 880-49108-1
SDG: Lea Co., NM

Client Sample ID: S-12 (4-6')

Lab Sample ID: 880-49108-4
Matrix: Solid
Date Collected: 09/26/24 09:40
Date Received: 09/27/24 13:45

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			92413	10/01/24 23:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10.00 mL	92042	09/29/24 20:34	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92281	10/01/24 23:26	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	92145	09/30/24 12:52	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	92250	10/03/24 05:24	CH	EET MID

Client Sample ID: S-13 (0-4')

Lab Sample ID: 880-49108-5
Matrix: Solid
Date Collected: 09/26/24 09:45
Date Received: 09/27/24 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	92116	09/30/24 10:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92216	10/01/24 11:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			92303	10/01/24 11:57	SM	EET MID
Total/NA	Analysis	8015 NM		1			92413	10/01/24 23:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10.00 mL	92042	09/29/24 20:34	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92281	10/01/24 23:43	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	92145	09/30/24 12:52	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	92250	10/03/24 05:31	CH	EET MID

Client Sample ID: S-13 (4-6')

Lab Sample ID: 880-49108-6
Matrix: Solid
Date Collected: 09/26/24 09:50
Date Received: 09/27/24 13:45

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	92116	09/30/24 10:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92216	10/01/24 12:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			92303	10/01/24 12:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			92413	10/01/24 23:57	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10.00 mL	92042	09/29/24 20:34	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92281	10/01/24 23:57	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	92145	09/30/24 12:52	SA	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	92250	10/03/24 05:37	CH	EET MID

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

Lab Sample ID: 880-49108-7
Matrix: Solid
Date Collected: 09/26/24 09:55
Date Received: 09/27/24 13:45

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	92116	09/30/24 10:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92216	10/01/24 12:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			92303	10/01/24 12:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			92413	10/02/24 00:11	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10.00 mL	92042	09/29/24 20:34	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92281	10/02/24 00:11	TKC	EET MID

Eurofins Midland

Lab Chronicle

Client: Crain Environmental
Project/Site: Chem State #1 Well

Job ID: 880-49108-1
SDG: Lea Co., NM

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

Lab Sample ID: 880-49108-7
Matrix: Solid
Date Collected: 09/26/24 09:55
Date Received: 09/27/24 13:45

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	92145	09/30/24 12:52	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	92250	10/03/24 11:32	CH	EET MID

Client Sample ID: S-14 (4-6')

Lab Sample ID: 880-49108-8
Matrix: Solid
Date Collected: 09/26/24 10:00
Date Received: 09/27/24 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	92116	09/30/24 10:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92216	10/01/24 12:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			92303	10/01/24 12:58	SM	EET MID
Total/NA	Analysis	8015 NM		1			92413	10/02/24 00:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10.00 mL	92042	09/29/24 20:34	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92281	10/02/24 00:27	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	92145	09/30/24 12:52	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	92250	10/03/24 05:45	CH	EET MID

Client Sample ID: S-15 (6')

Lab Sample ID: 880-49108-9
Matrix: Solid
Date Collected: 09/26/24 10:05
Date Received: 09/27/24 13:45

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	92116	09/30/24 10:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92216	10/01/24 13:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			92303	10/01/24 13:19	SM	EET MID
Total/NA	Analysis	8015 NM		1			92413	10/02/24 00:41	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10.00 mL	92042	09/29/24 20:34	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92281	10/02/24 00:41	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	92145	09/30/24 12:52	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	92250	10/03/24 05:51	CH	EET MID

Client Sample ID: Stockpile 1

Lab Sample ID: 880-49108-10
Matrix: Solid
Date Collected: 09/26/24 09:00
Date Received: 09/27/24 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	92116	09/30/24 10:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92216	10/01/24 13:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			92303	10/01/24 13:39	SM	EET MID
Total/NA	Analysis	8015 NM		1			92413	10/02/24 00:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10.00 mL	92042	09/29/24 20:34	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92281	10/02/24 00:58	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	92145	09/30/24 12:52	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	92250	10/03/24 05:58	CH	EET MID

Lab Chronicle

Client: Crain Environmental
Project/Site: Chem State #1 Well

Job ID: 880-49108-1
SDG: Lea Co., NM

Client Sample ID: Stockpile 2

Lab Sample ID: 880-49108-11
Matrix: Solid
Date Collected: 09/26/24 09:05
Date Received: 09/27/24 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	92116	09/30/24 10:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92216	10/01/24 14:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			92303	10/01/24 14:00	SM	EET MID
Total/NA	Analysis	8015 NM		1			92413	10/02/24 01:12	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10.00 mL	92042	09/29/24 20:34	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92281	10/02/24 01:12	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	92154	09/30/24 13:18	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	92241	10/02/24 05:55	CH	EET MID

Client Sample ID: Stockpile 3

Lab Sample ID: 880-49108-12
Matrix: Solid
Date Collected: 09/26/24 09:10
Date Received: 09/27/24 13:45

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	92116	09/30/24 10:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92216	10/01/24 14:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			92303	10/01/24 14:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			92413	10/02/24 01:42	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10.00 mL	92042	09/29/24 20:34	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92281	10/02/24 01:42	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	92154	09/30/24 13:18	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	92241	10/02/24 06:11	CH	EET MID

Client Sample ID: Stockpile 4

Lab Sample ID: 880-49108-13
Matrix: Solid
Date Collected: 09/26/24 09:15
Date Received: 09/27/24 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	92116	09/30/24 10:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92216	10/01/24 14:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			92303	10/01/24 14:41	SM	EET MID
Total/NA	Analysis	8015 NM		1			92413	10/02/24 01:56	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10.00 mL	92042	09/29/24 20:34	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92281	10/02/24 01:56	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	92154	09/30/24 13:18	SA	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	92241	10/02/24 06:17	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Crain Environmental
Project/Site: Chem State #1 Well

Job ID: 880-49108-1
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	06-30-25

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: Chem State #1 Well

Job ID: 880-49108-1
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: Chem State #1 Well

Job ID: 880-49108-1
SDG: Lea Co., NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-49108-1	S-11 (0-4')	Solid	09/26/24 09:25	09/27/24 13:45	0-4'
880-49108-2	S-11 (4-6')	Solid	09/26/24 09:30	09/27/24 13:45	4-6'
880-49108-3	S-12 (0-4')	Solid	09/26/24 09:35	09/27/24 13:45	0-4'
880-49108-4	S-12 (4-6')	Solid	09/26/24 09:40	09/27/24 13:45	4-6'
880-49108-5	S-13 (0-4')	Solid	09/26/24 09:45	09/27/24 13:45	0-4'
880-49108-6	S-13 (4-6')	Solid	09/26/24 09:50	09/27/24 13:45	4-6'
880-49108-7	S-14 (0-4')	Solid	09/26/24 09:55	09/27/24 13:45	0-4'
880-49108-8	S-14 (4-6')	Solid	09/26/24 10:00	09/27/24 13:45	4-6'
880-49108-9	S-15 (6')	Solid	09/26/24 10:05	09/27/24 13:45	6'
880-49108-10	Stockpile 1	Solid	09/26/24 09:00	09/27/24 13:45	
880-49108-11	Stockpile 2	Solid	09/26/24 09:05	09/27/24 13:45	
880-49108-12	Stockpile 3	Solid	09/26/24 09:10	09/27/24 13:45	
880-49108-13	Stockpile 4	Solid	09/26/24 09:15	09/27/24 13:45	

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Chain of Custody

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

880-49108 Chain of Custody

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Project Manager:	Cindy Crain	Bill to: (if different)	Chris Gaddy
Company Name:	Crain Environmental	Company Name:	Octane
Address:	2925 E. 17th St.	Address:	310 W. Wall, Ste. 300
City, State ZIP:	Odessa, TX 79761	City, State ZIP:	Midland, TX 79701
Phone:	(575) 441-7244	Email:	Cindy.crain@gmail.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project: NM
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Chem State #1 Well	Turn Around	☒ Routine ☐ Rush
Project Number:	-	Due Date:	
Project Location:	Lea Co. NM	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Cindy Crain		
PO #:	-		

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Samples Received Intact:	(Yes) No	Thermometer ID:	IR8
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	+1
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	3.2
Total Containers:		Corrected Temperature:	3.1

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2SO_4: H_2; NaOH: Na; H_3PO_4: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: $NaSO_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Parameters: TPH 8015M	BTEX	Chlorides	Sample Comments
S-11 (0-4')	S	9/26/24	0925	0-4'	C	1	X	X	X	
S-11 (4-6')			0930	4-6'						
S-12 (0-4')			0935	0-4'						
S-12 (4-6')			0940	4-6'						
S-13 (0-4')			0945	0-4'						
S-13 (4-6')			0950	4-6'						
S-14 (0-4')			0955	0-4'						
S-14 (4-6')			1000	4-6'						
S-15 (6')			1005	6'						
Stockpile 1	↓	↓	0900	-	↓	↓	↓	↓	↓	

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 Tl 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 Tl U Hg: 1631 / 245.1 / 7470 / 7471

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Cindy Crain		9/27/24 845	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

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Chain of Custody

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

Work Order No: 491000

www.xenco.com Page 2 of 2

Project Manager:	Cindy Crain	Bill to: (if different)	Chris Gaddy
Company Name:	Crain Environmental	Company Name:	Octane
Address:	2925 E. 17th St.	Address:	310 W. Wall, Ste. 300
City, State ZIP:	Odessa, TX 79761	City, State ZIP:	Midland, TX 79701
Phone:	(575) 441-7244	Email:	Cindy.crain@gmail.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project: NM
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Chem State #1 Well	Turn Around	☒ Routine ☐ Rush
Project Number:	-	Due Date:	
Project Location:	Lea Co., NM	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Cindy Crain		
PO #:	-		

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Samples Received Intact:	(Yes) No	Thermometer ID:	IR4
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-.1
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	3.2
Total Containers:		Corrected Temperature:	3.1

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	TPH 8015M	BTEX	Chlorides
Stockpile 2	S	9/26/24	0905	-	C	1	X	X	X
Stockpile 3	↓	↓	0910	-	↓	↓	↓	↓	↓
Stockpile 4	↓	↓	0915	-	↓	↓	↓	↓	↓

Preservative Codes

None: NO DI Water: H_2O
Cool: Cool MeOH: Me
HCL: HC HNO_3: HN
H_2SO_4: H_2 NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Comments

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 Tl 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 Tl U Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Cindy Crain		9/27/24 1345	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Crain Environmental

Job Number: 880-49108-1
SDG Number: Lea Co., NM

Login Number: 49108
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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

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ANALYTICAL REPORT

PREPARED FOR

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

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JOB DESCRIPTION

Chem State #1
Lea Co. NM

JOB NUMBER

880-50851-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

my EOL

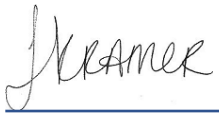
Eurofins Midland

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



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Revision 1

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

Client: Crain Environmental
Project/Site: Chem State #1

Laboratory Job ID: 880-50851-1
SDG: Lea Co. NM

Table of Contents

Definitions/Glossary

Client: Crain Environmental
Project/Site: Chem State #1

Job ID: 880-50851-1
SDG: Lea Co. NM

Qualifiers

GC Semi VOA

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

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Case Narrative

Client: Crain Environmental
Project: Chem State #1

Job ID: 880-50851-1

Job ID: 880-50851-1 Eurofins Midland

Job Narrative
880-50851-1

REVISION

The report being provided is a revision of the original report sent on 11/19/2024. The report (revision 1) is being revised due to Per client email samples 013-016 are for Chem State #4.

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

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

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

Receipt
The samples were received on 11/8/2024 1:35 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.2°C.

Diesel Range Organics
Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: (LCS 880-95276/2-A). Percent recoveries are based on the amount spiked.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCSD 880-95276/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-95595 exhibited % difference of > 20% for the following analyte(s)o-Terphenyl. These results are within the acceptance limits but exceed the performance criteria.

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

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

Client Sample Results

Client: Crain Environmental
Project/Site: Chem State #1

Job ID: 880-50851-1
SDG: Lea Co. NM

Client Sample ID: S-1 (7')
Date Collected: 11/04/24 10:00
Date Received: 11/08/24 13:35
Sample Depth: 7'

Lab Sample ID: 880-50851-1
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1380		49.7		mg/Kg			11/13/24 22:14	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	<49.7	U	49.7		mg/Kg		11/12/24 13:03	11/13/24 22:14	1
Diesel Range Organics (Over C10-C28)	1380		49.7		mg/Kg		11/12/24 13:03	11/13/24 22:14	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		11/12/24 13:03	11/13/24 22:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*87*		*70 - 130*	*11/12/24 13:03*	*11/13/24 22:14*	*1*
o-Terphenyl	*75*		*70 - 130*	*11/12/24 13:03*	*11/13/24 22:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	255		9.92		mg/Kg			11/09/24 00:54	1

Client Sample ID: S-11 (0-4')
Date Collected: 11/04/24 10:05
Date Received: 11/08/24 13:35
Sample Depth: 0-4'

Lab Sample ID: 880-50851-2
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	517		49.8		mg/Kg			11/12/24 20:46	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		11/08/24 14:17	11/12/24 20:46	1
Diesel Range Organics (Over C10-C28)	517		49.8		mg/Kg		11/08/24 14:17	11/12/24 20:46	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/08/24 14:17	11/12/24 20:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*11/08/24 14:17*	*11/12/24 20:46*	*1*
o-Terphenyl	*84*		*70 - 130*	*11/08/24 14:17*	*11/12/24 20:46*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1620		49.8		mg/Kg			11/09/24 01:01	5

Client Sample ID: S-11 (4-7')
Date Collected: 11/04/24 10:10
Date Received: 11/08/24 13:35
Sample Depth: 4-7'

Lab Sample ID: 880-50851-3
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1280		49.8		mg/Kg			11/12/24 21:17	1

Client Sample Results

Client: Crain Environmental
Project/Site: Chem State #1

Job ID: 880-50851-1
SDG: Lea Co. NM

Client Sample ID: S-11 (4-7')

Lab Sample ID: 880-50851-3
Matrix: Solid
Date Collected: 11/04/24 10:10
Date Received: 11/08/24 13:35
Sample Depth: 4-7'

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		11/08/24 14:17	11/12/24 21:17	1
Diesel Range Organics (Over C10-C28)	**1280**		49.8		mg/Kg		11/08/24 14:17	11/12/24 21:17	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/08/24 14:17	11/12/24 21:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 130*	*11/08/24 14:17*	*11/12/24 21:17*	*1*
o-Terphenyl	*90*		*70 - 130*	*11/08/24 14:17*	*11/12/24 21:17*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3810**		99.4		mg/Kg			11/09/24 01:16	10

Client Sample ID: S-12 (0-4')

Lab Sample ID: 880-50851-4
Matrix: Solid
Date Collected: 11/04/24 10:15
Date Received: 11/08/24 13:35
Sample Depth: 0-4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			11/12/24 21:32	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	<49.7	U	49.7		mg/Kg		11/08/24 14:17	11/12/24 21:32	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		11/08/24 14:17	11/12/24 21:32	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		11/08/24 14:17	11/12/24 21:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*11/08/24 14:17*	*11/12/24 21:32*	*1*
o-Terphenyl	*89*		*70 - 130*	*11/08/24 14:17*	*11/12/24 21:32*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**765**		9.92		mg/Kg			11/09/24 01:34	1

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

Lab Sample ID: 880-50851-5
Matrix: Solid
Date Collected: 11/04/24 10:15
Date Received: 11/08/24 13:35
Sample Depth: 4-7'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**788**		50.0		mg/Kg			11/12/24 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	<50.0	U	50.0		mg/Kg		11/08/24 14:17	11/12/24 21:48	1

Client Sample Results

Client: Crain Environmental
Project/Site: Chem State #1

Job ID: 880-50851-1
SDG: Lea Co. NM

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

Lab Sample ID: 880-50851-5
Matrix: Solid
Date Collected: 11/04/24 10:15
Date Received: 11/08/24 13:35
Sample Depth: 4-7'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	**788**		50.0		mg/Kg		11/08/24 14:17	11/12/24 21:48	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/08/24 14:17	11/12/24 21:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*79*		*70 - 130*	*11/08/24 14:17*	*11/12/24 21:48*	*1*
o-Terphenyl	*93*		*70 - 130*	*11/08/24 14:17*	*11/12/24 21:48*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**602**		9.94		mg/Kg			11/09/24 01:41	1

Client Sample ID: S-13 (0-4')

Lab Sample ID: 880-50851-6
Matrix: Solid
Date Collected: 11/04/24 10:20
Date Received: 11/08/24 13:35
Sample Depth: 0-4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**402**		49.9		mg/Kg			11/12/24 22:03	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		11/08/24 14:17	11/12/24 22:03	1
Diesel Range Organics (Over C10-C28)	**402**		49.9		mg/Kg		11/08/24 14:17	11/12/24 22:03	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/08/24 14:17	11/12/24 22:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*86*		*70 - 130*	*11/08/24 14:17*	*11/12/24 22:03*	*1*
o-Terphenyl	*86*		*70 - 130*	*11/08/24 14:17*	*11/12/24 22:03*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**911**		49.8		mg/Kg			11/09/24 01:47	5

Client Sample ID: S-13 (4-7')

Lab Sample ID: 880-50851-7
Matrix: Solid
Date Collected: 11/04/24 10:25
Date Received: 11/08/24 13:35
Sample Depth: 4-7'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			11/12/24 22:18	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		11/08/24 14:17	11/12/24 22:18	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		11/08/24 14:17	11/12/24 22:18	1

Client Sample Results

Client: Crain Environmental
Project/Site: Chem State #1

Job ID: 880-50851-1
SDG: Lea Co. NM

Client Sample ID: S-13 (4-7')

Lab Sample ID: 880-50851-7
Matrix: Solid
Date Collected: 11/04/24 10:25
Date Received: 11/08/24 13:35
Sample Depth: 4-7'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/08/24 14:17	11/12/24 22:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*11/08/24 14:17*	*11/12/24 22:18*	*1*
o-Terphenyl	*99*		*70 - 130*	*11/08/24 14:17*	*11/12/24 22:18*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**791**		9.90		mg/Kg			11/09/24 01:53	1

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

Lab Sample ID: 880-50851-8
Matrix: Solid
Date Collected: 11/04/24 10:30
Date Received: 11/08/24 13:35
Sample Depth: 0-4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			11/12/24 22:32	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	<49.8	U	49.8		mg/Kg		11/08/24 14:17	11/12/24 22:32	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		11/08/24 14:17	11/12/24 22:32	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/08/24 14:17	11/12/24 22:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*11/08/24 14:17*	*11/12/24 22:32*	*1*
o-Terphenyl	*83*		*70 - 130*	*11/08/24 14:17*	*11/12/24 22:32*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**650**		10.0		mg/Kg			11/09/24 02:11	1

Client Sample ID: S-2 (0-1.8')

Lab Sample ID: 880-50851-9
Matrix: Solid
Date Collected: 11/04/24 10:35
Date Received: 11/08/24 13:35
Sample Depth: 0-1.8'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/12/24 22:47	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	<50.0	U	50.0		mg/Kg		11/08/24 14:17	11/12/24 22:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/08/24 14:17	11/12/24 22:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/08/24 14:17	11/12/24 22:47	1

Client Sample Results

Client: Crain Environmental
Project/Site: Chem State #1

Job ID: 880-50851-1
SDG: Lea Co. NM

Client Sample ID: S-2 (0-1.8')

Lab Sample ID: 880-50851-9
Matrix: Solid
Date Collected: 11/04/24 10:35
Date Received: 11/08/24 13:35
Sample Depth: 0-1.8'

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*11/08/24 14:17*	*11/12/24 22:47*	*1*
o-Terphenyl	*83*		*70 - 130*	*11/08/24 14:17*	*11/12/24 22:47*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**364**		10.1		mg/Kg			11/09/24 02:17	1

Client Sample ID: S-18 (1.8')

Lab Sample ID: 880-50851-10
Matrix: Solid
Date Collected: 11/04/24 10:50
Date Received: 11/08/24 13:35
Sample Depth: 1.8'

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			11/12/24 23:01	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		11/08/24 14:17	11/12/24 23:01	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/08/24 14:17	11/12/24 23:01	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/08/24 14:17	11/12/24 23:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*87*		*70 - 130*	*11/08/24 14:17*	*11/12/24 23:01*	*1*
o-Terphenyl	*81*		*70 - 130*	*11/08/24 14:17*	*11/12/24 23:01*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**141**		9.96		mg/Kg			11/09/24 02:24	1

Client Sample ID: S-32 (2.5')

Lab Sample ID: 880-50851-11
Matrix: Solid
Date Collected: 11/04/24 11:05
Date Received: 11/08/24 13:35
Sample Depth: 0-2.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			11/12/24 23:17	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		11/08/24 14:17	11/12/24 23:17	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		11/08/24 14:17	11/12/24 23:17	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/08/24 14:17	11/12/24 23:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*11/08/24 14:17*	*11/12/24 23:17*	*1*
o-Terphenyl	*88*		*70 - 130*	*11/08/24 14:17*	*11/12/24 23:17*	*1*

Client Sample Results

Client: Crain Environmental
Project/Site: Chem State #1

Job ID: 880-50851-1
SDG: Lea Co. NM

Client Sample ID: S-32 (2.5')
Lab Sample ID: 880-50851-11
Date Collected: 11/04/24 11:05
Matrix: Solid
Date Received: 11/08/24 13:35
Sample Depth: 0-2.5'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	40.5		9.94		mg/Kg			11/09/24 02:30	1

Client Sample ID: S-34 (2.5')
Lab Sample ID: 880-50851-12
Date Collected: 11/04/24 11:10
Matrix: Solid
Date Received: 11/08/24 13:35
Sample Depth: 0-2.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			11/12/24 23:31	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	<49.8	U	49.8		mg/Kg		11/08/24 14:17	11/12/24 23:31	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		11/08/24 14:17	11/12/24 23:31	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/08/24 14:17	11/12/24 23:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*11/08/24 14:17*	*11/12/24 23:31*	*1*
o-Terphenyl	*83*		*70 - 130*	*11/08/24 14:17*	*11/12/24 23:31*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17.4		9.98		mg/Kg			11/09/24 02:36	1

Surrogate Summary

Client: Crain Environmental
Project/Site: Chem State #1

Job ID: 880-50851-1
SDG: Lea Co. NM

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)										
880-50851-1	S-1 (7')	87	75										
880-50851-2	S-11 (0-4')	88	84										
880-50851-3	S-11 (4-7')	91	90										
880-50851-4	S-12 (0-4')	93	89										
880-50851-5	S-12 (4-7')	79	93										
880-50851-6	S-13 (0-4')	86	86										
880-50851-7	S-13 (4-7')	104	99										
880-50851-8	S-14 (0-4')	89	83										
880-50851-9	S-2 (0-1.8')	89	83										
880-50851-10	S-18 (1.8')	87	81										
880-50851-11	S-32 (2.5')	95	88										
880-50851-12	S-34 (2.5')	88	83										
LCS 880-95276/2-A	Lab Control Sample	155 S1+	134 S1+										
LCS 880-95542/2-A	Lab Control Sample	100	87										
LCSD 880-95276/3-A	Lab Control Sample Dup	146 S1+	127										
LCSD 880-95542/3-A	Lab Control Sample Dup	99	86										
MB 880-95276/1-A	Method Blank	93	89										
MB 880-95542/1-A	Method Blank	106	85										

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Crain Environmental
Project/Site: Chem State #1

Job ID: 880-50851-1
SDG: Lea Co. NM

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

Lab Sample ID: MB 880-95276/1-A
Matrix: Solid
Analysis Batch: 95559

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 95276

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		11/08/24 14:17	11/12/24 10:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/08/24 14:17	11/12/24 10:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/08/24 14:17	11/12/24 10:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*11/08/24 14:17*	*11/12/24 10:10*	*1*
o-Terphenyl	*89*		*70 - 130*	*11/08/24 14:17*	*11/12/24 10:10*	*1*

Lab Sample ID: LCS 880-95276/2-A
Matrix: Solid
Analysis Batch: 95559

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 95276

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1147		mg/Kg		115	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1067		mg/Kg		107	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*155*	*S1+*	*70 - 130*
o-Terphenyl	*134*	*S1+*	*70 - 130*

Lab Sample ID: LCSD 880-95276/3-A
Matrix: Solid
Analysis Batch: 95559

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 95276

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1108		mg/Kg		111	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	1000	999.2		mg/Kg		100	70 - 130	7	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*146*	*S1+*	*70 - 130*
o-Terphenyl	*127*		*70 - 130*

Lab Sample ID: MB 880-95542/1-A
Matrix: Solid
Analysis Batch: 95595

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 95542

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		11/12/24 13:02	11/13/24 19:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/12/24 13:02	11/13/24 19:33	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/12/24 13:02	11/13/24 19:33	1

QC Sample Results

Client: Crain Environmental
Project/Site: Chem State #1

Job ID: 880-50851-1
SDG: Lea Co. NM

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

Lab Sample ID: MB 880-95542/1-A
Matrix: Solid
Analysis Batch: 95595

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 95542

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130	11/12/24 13:02	11/13/24 19:33	1
o-Terphenyl	85		70 - 130	11/12/24 13:02	11/13/24 19:33	1

Lab Sample ID: LCS 880-95542/2-A
Matrix: Solid
Analysis Batch: 95595

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 95542

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	969.0		mg/Kg		97	70 - 130
Diesel Range Organics (Over C10-C28)	1000	778.1		mg/Kg		78	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	100		70 - 130
o-Terphenyl	87		70 - 130

Lab Sample ID: LCSD 880-95542/3-A
Matrix: Solid
Analysis Batch: 95595

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 95542

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	969.6		mg/Kg		97	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	1000	745.5		mg/Kg		75	70 - 130	4	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	99		70 - 130
o-Terphenyl	86		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-95277/1-A
Matrix: Solid
Analysis Batch: 95293

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			11/08/24 21:43	1

Lab Sample ID: LCS 880-95277/2-A
Matrix: Solid
Analysis Batch: 95293

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	267.3		mg/Kg		107	90 - 110

QC Sample Results

Client: Crain Environmental
Project/Site: Chem State #1

Job ID: 880-50851-1
SDG: Lea Co. NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-95277/3-A
Matrix: Solid
Analysis Batch: 95293

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	271.1		mg/Kg		108	90 - 110	1	20

Lab Sample ID: MB 880-95290/1-A
Matrix: Solid
Analysis Batch: 95294

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			11/09/24 00:58	1

Lab Sample ID: LCS 880-95290/2-A
Matrix: Solid
Analysis Batch: 95294

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	238.9		mg/Kg		96	90 - 110		

Lab Sample ID: LCSD 880-95290/3-A
Matrix: Solid
Analysis Batch: 95294

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	239.8		mg/Kg		96	90 - 110	0	20

Lab Sample ID: 880-50851-3 MS
Matrix: Solid
Analysis Batch: 95294

Client Sample ID: S-11 (4-7')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	3810		2490	6347		mg/Kg		102	90 - 110		

Lab Sample ID: 880-50851-3 MSD
Matrix: Solid
Analysis Batch: 95294

Client Sample ID: S-11 (4-7')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	3810		2490	6367		mg/Kg		103	90 - 110	0	20

QC Association Summary

Client: Crain Environmental
Project/Site: Chem State #1

Job ID: 880-50851-1
SDG: Lea Co. NM

GC Semi VOA

Prep Batch: 95276

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-50851-2	S-11 (0-4')	Total/NA	Solid	8015NM Prep	
880-50851-3	S-11 (4-7')	Total/NA	Solid	8015NM Prep	
880-50851-4	S-12 (0-4')	Total/NA	Solid	8015NM Prep	
880-50851-5	S-12 (4-7')	Total/NA	Solid	8015NM Prep	
880-50851-6	S-13 (0-4')	Total/NA	Solid	8015NM Prep	
880-50851-7	S-13 (4-7')	Total/NA	Solid	8015NM Prep	
880-50851-8	S-14 (0-4')	Total/NA	Solid	8015NM Prep	
880-50851-9	S-2 (0-1.8')	Total/NA	Solid	8015NM Prep	
880-50851-10	S-18 (1.8')	Total/NA	Solid	8015NM Prep	
880-50851-11	S-32 (2.5')	Total/NA	Solid	8015NM Prep	
880-50851-12	S-34 (2.5')	Total/NA	Solid	8015NM Prep	
MB 880-95276/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-95276/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-95276/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 95542

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-50851-1	S-1 (7')	Total/NA	Solid	8015NM Prep	
MB 880-95542/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-95542/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-95542/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 95559

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-50851-2	S-11 (0-4')	Total/NA	Solid	8015B NM	95276
880-50851-3	S-11 (4-7')	Total/NA	Solid	8015B NM	95276
880-50851-4	S-12 (0-4')	Total/NA	Solid	8015B NM	95276
880-50851-5	S-12 (4-7')	Total/NA	Solid	8015B NM	95276
880-50851-6	S-13 (0-4')	Total/NA	Solid	8015B NM	95276
880-50851-7	S-13 (4-7')	Total/NA	Solid	8015B NM	95276
880-50851-8	S-14 (0-4')	Total/NA	Solid	8015B NM	95276
880-50851-9	S-2 (0-1.8')	Total/NA	Solid	8015B NM	95276
880-50851-10	S-18 (1.8')	Total/NA	Solid	8015B NM	95276
880-50851-11	S-32 (2.5')	Total/NA	Solid	8015B NM	95276
880-50851-12	S-34 (2.5')	Total/NA	Solid	8015B NM	95276
MB 880-95276/1-A	Method Blank	Total/NA	Solid	8015B NM	95276
LCS 880-95276/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	95276
LCSD 880-95276/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	95276

Analysis Batch: 95595

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-50851-1	S-1 (7')	Total/NA	Solid	8015B NM	95542
MB 880-95542/1-A	Method Blank	Total/NA	Solid	8015B NM	95542
LCS 880-95542/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	95542
LCSD 880-95542/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	95542

Analysis Batch: 95605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-50851-1	S-1 (7')	Total/NA	Solid	8015 NM	
880-50851-2	S-11 (0-4')	Total/NA	Solid	8015 NM	
880-50851-3	S-11 (4-7')	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Crain Environmental
Project/Site: Chem State #1

Job ID: 880-50851-1
SDG: Lea Co. NM

GC Semi VOA (Continued)

Analysis Batch: 95605 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-50851-4	S-12 (0-4')	Total/NA	Solid	8015 NM	
880-50851-5	S-12 (4-7')	Total/NA	Solid	8015 NM	
880-50851-6	S-13 (0-4')	Total/NA	Solid	8015 NM	
880-50851-7	S-13 (4-7')	Total/NA	Solid	8015 NM	
880-50851-8	S-14 (0-4')	Total/NA	Solid	8015 NM	
880-50851-9	S-2 (0-1.8')	Total/NA	Solid	8015 NM	
880-50851-10	S-18 (1.8')	Total/NA	Solid	8015 NM	
880-50851-11	S-32 (2.5')	Total/NA	Solid	8015 NM	
880-50851-12	S-34 (2.5')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 95277

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-50851-1	S-1 (7')	Soluble	Solid	DI Leach	
880-50851-2	S-11 (0-4')	Soluble	Solid	DI Leach	
MB 880-95277/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-95277/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-95277/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Leach Batch: 95290

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-50851-3	S-11 (4-7')	Soluble	Solid	DI Leach	
880-50851-4	S-12 (0-4')	Soluble	Solid	DI Leach	
880-50851-5	S-12 (4-7')	Soluble	Solid	DI Leach	
880-50851-6	S-13 (0-4')	Soluble	Solid	DI Leach	
880-50851-7	S-13 (4-7')	Soluble	Solid	DI Leach	
880-50851-8	S-14 (0-4')	Soluble	Solid	DI Leach	
880-50851-9	S-2 (0-1.8')	Soluble	Solid	DI Leach	
880-50851-10	S-18 (1.8')	Soluble	Solid	DI Leach	
880-50851-11	S-32 (2.5')	Soluble	Solid	DI Leach	
880-50851-12	S-34 (2.5')	Soluble	Solid	DI Leach	
MB 880-95290/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-95290/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-95290/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-50851-3 MS	S-11 (4-7')	Soluble	Solid	DI Leach	
880-50851-3 MSD	S-11 (4-7')	Soluble	Solid	DI Leach	

Analysis Batch: 95293

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-50851-1	S-1 (7')	Soluble	Solid	300.0	95277
880-50851-2	S-11 (0-4')	Soluble	Solid	300.0	95277
MB 880-95277/1-A	Method Blank	Soluble	Solid	300.0	95277
LCS 880-95277/2-A	Lab Control Sample	Soluble	Solid	300.0	95277
LCSD 880-95277/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	95277

Analysis Batch: 95294

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-50851-3	S-11 (4-7')	Soluble	Solid	300.0	95290
880-50851-4	S-12 (0-4')	Soluble	Solid	300.0	95290
880-50851-5	S-12 (4-7')	Soluble	Solid	300.0	95290

QC Association Summary

Client: Crain Environmental
Project/Site: Chem State #1

Job ID: 880-50851-1
SDG: Lea Co. NM

HPLC/IC (Continued)

Analysis Batch: 95294 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-50851-6	S-13 (0-4')	Soluble	Solid	300.0	95290
880-50851-7	S-13 (4-7')	Soluble	Solid	300.0	95290
880-50851-8	S-14 (0-4')	Soluble	Solid	300.0	95290
880-50851-9	S-2 (0-1.8')	Soluble	Solid	300.0	95290
880-50851-10	S-18 (1.8')	Soluble	Solid	300.0	95290
880-50851-11	S-32 (2.5')	Soluble	Solid	300.0	95290
880-50851-12	S-34 (2.5')	Soluble	Solid	300.0	95290
MB 880-95290/1-A	Method Blank	Soluble	Solid	300.0	95290
LCS 880-95290/2-A	Lab Control Sample	Soluble	Solid	300.0	95290
LCSD 880-95290/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	95290
880-50851-3 MS	S-11 (4-7')	Soluble	Solid	300.0	95290
880-50851-3 MSD	S-11 (4-7')	Soluble	Solid	300.0	95290

Lab Chronicle

Client: Crain Environmental
Project/Site: Chem State #1

Job ID: 880-50851-1
SDG: Lea Co. NM

Client Sample ID: S-1 (7')
Date Collected: 11/04/24 10:00
Date Received: 11/08/24 13:35

Lab Sample ID: 880-50851-1
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			95605	11/13/24 22:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	95542	11/12/24 13:03	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	95595	11/13/24 22:14	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	95277	11/08/24 14:21	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	95293	11/09/24 00:54	CH	EET MID

Client Sample ID: S-11 (0-4')
Date Collected: 11/04/24 10:05
Date Received: 11/08/24 13:35

Lab Sample ID: 880-50851-2
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			95605	11/12/24 20:46	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	95276	11/08/24 14:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	95559	11/12/24 20:46	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	95277	11/08/24 14:21	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	95293	11/09/24 01:01	CH	EET MID

Client Sample ID: S-11 (4-7')
Date Collected: 11/04/24 10:10
Date Received: 11/08/24 13:35

Lab Sample ID: 880-50851-3
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			95605	11/12/24 21:17	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	95276	11/08/24 14:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	95559	11/12/24 21:17	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	95290	11/08/24 14:51	SA	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	95294	11/09/24 01:16	CH	EET MID

Client Sample ID: S-12 (0-4')
Date Collected: 11/04/24 10:15
Date Received: 11/08/24 13:35

Lab Sample ID: 880-50851-4
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			95605	11/12/24 21:32	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	95276	11/08/24 14:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	95559	11/12/24 21:32	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	95290	11/08/24 14:51	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	95294	11/09/24 01:34	CH	EET MID

Client Sample ID: S-12 (4-7')
Date Collected: 11/04/24 10:15
Date Received: 11/08/24 13:35

Lab Sample ID: 880-50851-5
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			95605	11/12/24 21:48	SM	EET MID

Lab Chronicle

Client: Crain Environmental
Project/Site: Chem State #1

Job ID: 880-50851-1
SDG: Lea Co. NM

Client Sample ID: S-12 (4-7')
Date Collected: 11/04/24 10:15
Date Received: 11/08/24 13:35

Lab Sample ID: 880-50851-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	95276	11/08/24 14:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	95559	11/12/24 21:48	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	95290	11/08/24 14:51	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	95294	11/09/24 01:41	CH	EET MID

Client Sample ID: S-13 (0-4')
Date Collected: 11/04/24 10:20
Date Received: 11/08/24 13:35

Lab Sample ID: 880-50851-6
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			95605	11/12/24 22:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	95276	11/08/24 14:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	95559	11/12/24 22:03	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	95290	11/08/24 14:51	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	95294	11/09/24 01:47	CH	EET MID

Client Sample ID: S-13 (4-7')
Date Collected: 11/04/24 10:25
Date Received: 11/08/24 13:35

Lab Sample ID: 880-50851-7
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			95605	11/12/24 22:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	95276	11/08/24 14:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	95559	11/12/24 22:18	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	95290	11/08/24 14:51	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	95294	11/09/24 01:53	CH	EET MID

Client Sample ID: S-14 (0-4')
Date Collected: 11/04/24 10:30
Date Received: 11/08/24 13:35

Lab Sample ID: 880-50851-8
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			95605	11/12/24 22:32	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	95276	11/08/24 14:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	95559	11/12/24 22:32	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	95290	11/08/24 14:51	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	95294	11/09/24 02:11	CH	EET MID

Client Sample ID: S-2 (0-1.8')
Date Collected: 11/04/24 10:35
Date Received: 11/08/24 13:35

Lab Sample ID: 880-50851-9
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			95605	11/12/24 22:47	SM	EET MID

Lab Chronicle

Client: Crain Environmental
Project/Site: Chem State #1

Job ID: 880-50851-1
SDG: Lea Co. NM

Client Sample ID: S-2 (0-1.8')
Date Collected: 11/04/24 10:35
Date Received: 11/08/24 13:35

Lab Sample ID: 880-50851-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	95276	11/08/24 14:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	95559	11/12/24 22:47	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	95290	11/08/24 14:51	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	95294	11/09/24 02:17	CH	EET MID

Client Sample ID: S-18 (1.8')
Date Collected: 11/04/24 10:50
Date Received: 11/08/24 13:35

Lab Sample ID: 880-50851-10
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			95605	11/12/24 23:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	95276	11/08/24 14:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	95559	11/12/24 23:01	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	95290	11/08/24 14:51	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	95294	11/09/24 02:24	CH	EET MID

Client Sample ID: S-32 (2.5')
Date Collected: 11/04/24 11:05
Date Received: 11/08/24 13:35

Lab Sample ID: 880-50851-11
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			95605	11/12/24 23:17	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	95276	11/08/24 14:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	95559	11/12/24 23:17	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	95290	11/08/24 14:51	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	95294	11/09/24 02:30	CH	EET MID

Client Sample ID: S-34 (2.5')
Date Collected: 11/04/24 11:10
Date Received: 11/08/24 13:35

Lab Sample ID: 880-50851-12
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			95605	11/12/24 23:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	95276	11/08/24 14:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	95559	11/12/24 23:31	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	95290	11/08/24 14:51	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	95294	11/09/24 02:36	CH	EET MID

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

Accreditation/Certification Summary

Client: Crain Environmental
Project/Site: Chem State #1

Job ID: 880-50851-1
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	06-30-25

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

Method Summary

Client: Crain Environmental
Project/Site: Chem State #1

Job ID: 880-50851-1
SDG: Lea Co. NM

Method	Method Description	Protocol	Laboratory
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Sample Summary

Client: Crain Environmental
Project/Site: Chem State #1

Job ID: 880-50851-1
SDG: Lea Co. NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-50851-1	S-1 (7')	Solid	11/04/24 10:00	11/08/24 13:35	7'
880-50851-2	S-11 (0-4')	Solid	11/04/24 10:05	11/08/24 13:35	0-4'
880-50851-3	S-11 (4-7')	Solid	11/04/24 10:10	11/08/24 13:35	4-7'
880-50851-4	S-12 (0-4')	Solid	11/04/24 10:15	11/08/24 13:35	0-4'
880-50851-5	S-12 (4-7')	Solid	11/04/24 10:15	11/08/24 13:35	4-7'
880-50851-6	S-13 (0-4')	Solid	11/04/24 10:20	11/08/24 13:35	0-4'
880-50851-7	S-13 (4-7')	Solid	11/04/24 10:25	11/08/24 13:35	4-7'
880-50851-8	S-14 (0-4')	Solid	11/04/24 10:30	11/08/24 13:35	0-4'
880-50851-9	S-2 (0-1.8')	Solid	11/04/24 10:35	11/08/24 13:35	0-1.8'
880-50851-10	S-18 (1.8')	Solid	11/04/24 10:50	11/08/24 13:35	1.8'
880-50851-11	S-32 (2.5')	Solid	11/04/24 11:05	11/08/24 13:35	0-2.5'
880-50851-12	S-34 (2.5')	Solid	11/04/24 11:10	11/08/24 13:35	0-2.5'

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Chain of Custody

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

880-50851 Chain of Custody

www.xenco.com Page 1 of 2

Project Manager:	Cindy Crain	Bill to: (if different)	Chris Gaddy
Company Name:	Crain Environmental	Company Name:	Octane
Address:	2925 E. 17th St.	Address:	310 W. Wall, St. 300
City, State ZIP:	Odessa, TX 79761	City, State ZIP:	Midland, TX 79701
Phone:	(575) 441-7244	Email:	Cindy.Crain@gmail.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project: NM
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Chem State #1	Turn Around	☒ Routine ☐ Rush
Project Number:	-	Due Date:	
Project Location:	Lea Co., NM	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Cindy Crain		
PO #:	-		

SAMPLE RECEIPT	Temp Blank:	Yes (No)	Wet Ice:	Yes (No)
Samples Received Intact:	(Yes) No	Thermometer ID:	IR8	
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-.1	
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	3.3	
Total Containers:		Corrected Temperature:	3.2	

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2SO_4: H_2; NaOH: Na; H_3PO_4: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: $NaSO_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: TPH 8015M	Parameters: Chlorides	Sample Comments
S-1 (7')	S	11/4/24	1000	7'	C	1		X	X	
S-11 (0-4')			1005	0-4'						
S-11 (4-7')			1010	4-7'						
S-12 (0-4')			1015	0-4'						
S-12 (4-7')			1020	4-7'						
S-13 (0-4')			1025	0-4'						
S-13 (4-7')			1030	4-7'						
S-14 (0-4')			1035	0-4'						
S-2 (0-1.8')			1045	0-1.8'						
S-18 (1.8')	↓	↓	1050	1.8'	↓	↓		↓	↓	

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 Tl 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 Tl U Hg: 1631 / 245.1 / 7470 / 7471

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Cindy Crain		11/8/24 1335	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

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Chain of Custody

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

Work Order No: 851

www.xenco.com Page 2 of 2

Project Manager:	Cindy Crain	Bill to: (if different)	Chris Gaddy
Company Name:	Crain Environmental	Company Name:	Octane
Address:	2925 E. 17th St.	Address:	310 W. Wall, Ste. 300
City, State ZIP:	Odessa, TX 79761	City, State ZIP:	Midland, TX 79701
Phone:	(575)441-7244 Email:		Cindy.crain@gmail.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project: NM
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Chem State #1	Turn Around	
Project Number:	-	☒ Routine ☐ Rush	
Project Location:	Lea Co., NM	Due Date:	
Sampler's Name:	Cindy Crain	TAT starts the day received by the lab, if received by 4:30pm	
PO #:	-		

SAMPLE RECEIPT	Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:		
Cooler Custody Seals:	Yes No N/A	Correction Factor:		
Sample Custody Seals:	Yes No N/A	Temperature Reading:		
Total Containers:		Corrected Temperature:		

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: TPH 8015M	Parameters: Chlorides
S-32 (0-2.5')	S	11/4/24	1105	0-2.5'	C	1		X	X
S-34 (0-2.5')	S	11/4/24	1110	0-2.5'	C	1		X	X

Preservative Codes

None: NO DI Water: H_2O
Cool: Cool MeOH: Me
HCL: HC HNO_3: HN
H_2SO_4: H_2 NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Comments

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 Tl 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 Tl U Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Cindy Crain		11/8/24 1535	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Crain Environmental

Job Number: 880-50851-1
SDG Number: Lea Co. NM

Login Number: 50851
List Number: 1
Creator: Vasquez, Julisa

List Source: Eurofins Midland

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

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 1/2/2025 3:59:52 PM

JOB DESCRIPTION

Chem State #1

JOB NUMBER

880-52508-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

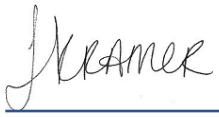
Eurofins Midland

Job Notes

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

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

Authorization



Generated
1/2/2025 3:59:52 PM

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

Client: Crain Environmental
Project/Site: Chem State #1

Laboratory Job ID: 880-52508-1

Table of Contents

Definitions/Glossary

Client: Crain Environmental
Project/Site: Chem State #1

Job ID: 880-52508-1

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
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.
☼	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: Chem State #1

Job ID: 880-52508-1

Job ID: 880-52508-1 Eurofins Midland

Job Narrative
880-52508-1

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

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

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

Receipt
The samples were received on 12/19/2024 1:52 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.2°C.

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

Diesel Range Organics
Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-98956 and analytical batch 880-99130 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

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

Client Sample Results

Client: Crain Environmental
Project/Site: Chem State #1

Job ID: 880-52508-1

Client Sample ID: S-1 (9')

Lab Sample ID: 880-52508-1
Matrix: Solid
Date Collected: 12/18/24 09:45
Date Received: 12/19/24 13:52
Sample Depth: 9

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		12/20/24 08:33	12/20/24 13:54	1
Toluene	**0.00486**		0.00200		mg/Kg		12/20/24 08:33	12/20/24 13:54	1
Ethylbenzene	**0.0302**		0.00200		mg/Kg		12/20/24 08:33	12/20/24 13:54	1
m-Xylene & p-Xylene	**0.00402**		0.00401		mg/Kg		12/20/24 08:33	12/20/24 13:54	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 08:33	12/20/24 13:54	1
Xylenes, Total	**0.00402**		0.00401		mg/Kg		12/20/24 08:33	12/20/24 13:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*12/20/24 08:33*	*12/20/24 13:54*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*12/20/24 08:33*	*12/20/24 13:54*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0391**		0.00401		mg/Kg			12/20/24 13:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/31/24 20:51	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	<50.0	U F1 F2	50.0		mg/Kg		12/27/24 13:36	12/31/24 20:51	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/27/24 13:36	12/31/24 20:51	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/27/24 13:36	12/31/24 20:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 130*	*12/27/24 13:36*	*12/31/24 20:51*	*1*
o-Terphenyl	*93*		*70 - 130*	*12/27/24 13:36*	*12/31/24 20:51*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**26.0**		10.0		mg/Kg			12/24/24 16:20	1

Client Sample ID: S-11 (0-4')

Lab Sample ID: 880-52508-2
Matrix: Solid
Date Collected: 12/18/24 09:50
Date Received: 12/19/24 13:52
Sample Depth: 0 - 4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/20/24 08:33	12/20/24 14:14	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/20/24 08:33	12/20/24 14:14	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/20/24 08:33	12/20/24 14:14	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/20/24 08:33	12/20/24 14:14	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/20/24 08:33	12/20/24 14:14	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/20/24 08:33	12/20/24 14:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*12/20/24 08:33*	*12/20/24 14:14*	*1*

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Client Sample Results

Client: Crain Environmental
Project/Site: Chem State #1

Job ID: 880-52508-1

Client Sample ID: S-11 (0-4')

Lab Sample ID: 880-52508-2
Matrix: Solid
Date Collected: 12/18/24 09:50
Date Received: 12/19/24 13:52
Sample Depth: 0 - 4

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*12/20/24 08:33*	*12/20/24 14:14*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/20/24 14:14	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			12/31/24 21:52	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	<49.9	U	49.9		mg/Kg		12/27/24 13:36	12/31/24 21:52	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/27/24 13:36	12/31/24 21:52	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/27/24 13:36	12/31/24 21:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*12/27/24 13:36*	*12/31/24 21:52*	*1*
o-Terphenyl	*93*		*70 - 130*	*12/27/24 13:36*	*12/31/24 21:52*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**54.8**		10.1		mg/Kg			12/24/24 16:26	1

Client Sample ID: S-11 (4-9')

Lab Sample ID: 880-52508-3
Matrix: Solid
Date Collected: 12/18/24 09:55
Date Received: 12/19/24 13:52
Sample Depth: 4 - 9

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		12/20/24 08:33	12/20/24 14:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 08:33	12/20/24 14:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 08:33	12/20/24 14:35	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/20/24 08:33	12/20/24 14:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 08:33	12/20/24 14:35	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/20/24 08:33	12/20/24 14:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*12/20/24 08:33*	*12/20/24 14:35*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*12/20/24 08:33*	*12/20/24 14:35*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/20/24 14:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/31/24 22:13	1

Eurofins Midland

Client Sample Results

Client: Crain Environmental
Job ID: 880-52508-1
Project/Site: Chem State #1

Client Sample ID: S-11 (4-9')
Lab Sample ID: 880-52508-3
Date Collected: 12/18/24 09:55
Matrix: Solid
Date Received: 12/19/24 13:52
Sample Depth: 4 - 9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/27/24 13:36	12/31/24 22:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/27/24 13:36	12/31/24 22:13	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/27/24 13:36	12/31/24 22:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*87*		*70 - 130*	*12/27/24 13:36*	*12/31/24 22:13*	*1*
o-Terphenyl	*91*		*70 - 130*	*12/27/24 13:36*	*12/31/24 22:13*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**34.3**		9.98		mg/Kg			12/24/24 16:32	1

Client Sample ID: S-12 (0-4')
Lab Sample ID: 880-52508-4
Date Collected: 12/18/24 10:00
Matrix: Solid
Date Received: 12/19/24 13:52
Sample Depth: 0 - 4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		12/20/24 08:33	12/20/24 16:08	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/20/24 08:33	12/20/24 16:08	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/20/24 08:33	12/20/24 16:08	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		12/20/24 08:33	12/20/24 16:08	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/20/24 08:33	12/20/24 16:08	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		12/20/24 08:33	12/20/24 16:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*12/20/24 08:33*	*12/20/24 16:08*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*12/20/24 08:33*	*12/20/24 16:08*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			12/20/24 16:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/31/24 22:33	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	<50.0	U	50.0		mg/Kg		12/27/24 13:36	12/31/24 22:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/27/24 13:36	12/31/24 22:33	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/27/24 13:36	12/31/24 22:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 130*	*12/27/24 13:36*	*12/31/24 22:33*	*1*
o-Terphenyl	*88*		*70 - 130*	*12/27/24 13:36*	*12/31/24 22:33*	*1*

Client Sample Results

Client: Crain Environmental
Job ID: 880-52508-1
Project/Site: Chem State #1

Client Sample ID: S-12 (0-4')
Lab Sample ID: 880-52508-4

Date Collected: 12/18/24 10:00
Matrix: Solid
Date Received: 12/19/24 13:52
Sample Depth: 0 - 4

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	32.1		10.0		mg/Kg			12/24/24 16:50	1

Client Sample ID: S-12 (4-9')
Lab Sample ID: 880-52508-5

Date Collected: 12/18/24 10:05
Matrix: Solid
Date Received: 12/19/24 13:52
Sample Depth: 4 - 9

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		12/20/24 08:33	12/20/24 16:29	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 08:33	12/20/24 16:29	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 08:33	12/20/24 16:29	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/20/24 08:33	12/20/24 16:29	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 08:33	12/20/24 16:29	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/20/24 08:33	12/20/24 16:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*12/20/24 08:33*	*12/20/24 16:29*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*12/20/24 08:33*	*12/20/24 16:29*	*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			12/20/24 16:29	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			12/31/24 22:54	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		12/27/24 13:36	12/31/24 22:54	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/27/24 13:36	12/31/24 22:54	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/27/24 13:36	12/31/24 22:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*87*		*70 - 130*	*12/27/24 13:36*	*12/31/24 22:54*	*1*
o-Terphenyl	*92*		*70 - 130*	*12/27/24 13:36*	*12/31/24 22:54*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	32.9		9.96		mg/Kg			12/24/24 16:56	1

Client Sample Results

Client: Crain Environmental
Job ID: 880-52508-1
Project/Site: Chem State #1

Client Sample ID: S-13 (0-4')
Lab Sample ID: 880-52508-6
Matrix: Solid
Date Collected: 12/18/24 10:10
Date Received: 12/19/24 13:52
Sample Depth: 0 - 4

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		12/20/24 08:33	12/20/24 16:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 08:33	12/20/24 16:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 08:33	12/20/24 16:49	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/20/24 08:33	12/20/24 16:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 08:33	12/20/24 16:49	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/20/24 08:33	12/20/24 16:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*12/20/24 08:33*	*12/20/24 16:49*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*12/20/24 08:33*	*12/20/24 16:49*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/20/24 16:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/31/24 23:14	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	<50.0	U	50.0		mg/Kg		12/27/24 13:36	12/31/24 23:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/27/24 13:36	12/31/24 23:14	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/27/24 13:36	12/31/24 23:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*12/27/24 13:36*	*12/31/24 23:14*	*1*
o-Terphenyl	*91*		*70 - 130*	*12/27/24 13:36*	*12/31/24 23:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**71.7**		10.0		mg/Kg			12/24/24 17:02	1

Client Sample ID: S-13 (4-9')
Lab Sample ID: 880-52508-7
Matrix: Solid
Date Collected: 12/18/24 10:15
Date Received: 12/19/24 13:52
Sample Depth: 4 - 9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/20/24 08:33	12/20/24 17:10	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/20/24 08:33	12/20/24 17:10	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/20/24 08:33	12/20/24 17:10	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/20/24 08:33	12/20/24 17:10	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/20/24 08:33	12/20/24 17:10	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/20/24 08:33	12/20/24 17:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*12/20/24 08:33*	*12/20/24 17:10*	*1*

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Client Sample Results

Client: Crain Environmental
Project/Site: Chem State #1

Job ID: 880-52508-1

Client Sample ID: S-13 (4-9')

Lab Sample ID: 880-52508-7
Matrix: Solid
Date Collected: 12/18/24 10:15
Date Received: 12/19/24 13:52
Sample Depth: 4 - 9

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*12/20/24 08:33*	*12/20/24 17:10*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/20/24 17:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			12/31/24 23:34	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		12/27/24 13:36	12/31/24 23:34	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/27/24 13:36	12/31/24 23:34	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/27/24 13:36	12/31/24 23:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*12/27/24 13:36*	*12/31/24 23:34*	*1*
o-Terphenyl	*97*		*70 - 130*	*12/27/24 13:36*	*12/31/24 23:34*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**65.6**		9.98		mg/Kg			12/24/24 17:08	1

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

Lab Sample ID: 880-52508-8
Matrix: Solid
Date Collected: 12/18/24 10:20
Date Received: 12/19/24 13:52
Sample Depth: 0 - 4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/20/24 08:33	12/20/24 17:30	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/20/24 08:33	12/20/24 17:30	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/20/24 08:33	12/20/24 17:30	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/20/24 08:33	12/20/24 17:30	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/20/24 08:33	12/20/24 17:30	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/20/24 08:33	12/20/24 17:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*12/20/24 08:33*	*12/20/24 17:30*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*12/20/24 08:33*	*12/20/24 17:30*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/20/24 17:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			12/31/24 23:54	1

Eurofins Midland

Client Sample Results

Client: Crain Environmental
Project/Site: Chem State #1

Job ID: 880-52508-1

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

Lab Sample ID: 880-52508-8
Matrix: Solid
Date Collected: 12/18/24 10:20
Date Received: 12/19/24 13:52
Sample Depth: 0 - 4

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		12/27/24 13:36	12/31/24 23:54	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		12/27/24 13:36	12/31/24 23:54	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		12/27/24 13:36	12/31/24 23:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*12/27/24 13:36*	*12/31/24 23:54*	*1*
o-Terphenyl	*95*		*70 - 130*	*12/27/24 13:36*	*12/31/24 23:54*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**55.8**		9.92		mg/Kg			12/24/24 17:13	1

Surrogate Summary

Client: Crain Environmental
Project/Site: Chem State #1

Job ID: 880-52508-1

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)
880-52508-1	S-1 (9')	102	92
880-52508-2	S-11 (0-4')	105	97
880-52508-3	S-11 (4-9')	98	100
880-52508-4	S-12 (0-4')	106	97
880-52508-5	S-12 (4-9')	109	94
880-52508-6	S-13 (0-4')	98	98
880-52508-7	S-13 (4-9')	96	97
880-52508-8	S-14 (0-4')	98	99
LCS 880-98435/1-A	Lab Control Sample	106	99
LCSD 880-98435/2-A	Lab Control Sample Dup	108	98
MB 880-98435/5-A	Method Blank	92	93

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)
880-52508-1	S-1 (9')	85	93
880-52508-1 MS	S-1 (9')	86	83
880-52508-1 MSD	S-1 (9')	98	95
880-52508-2	S-11 (0-4')	88	93
880-52508-3	S-11 (4-9')	87	91
880-52508-4	S-12 (0-4')	84	88
880-52508-5	S-12 (4-9')	87	92
880-52508-6	S-13 (0-4')	88	91
880-52508-7	S-13 (4-9')	93	97
880-52508-8	S-14 (0-4')	89	95
LCS 880-98956/2-A	Lab Control Sample	97	100
LCSD 880-98956/3-A	Lab Control Sample Dup	104	107
MB 880-98956/1-A	Method Blank	115	130

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Crain Environmental
Project/Site: Chem State #1

Job ID: 880-52508-1

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-98435/5-A
Matrix: Solid
Analysis Batch: 98353

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 98435

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/20/24 08:33	12/20/24 11:07	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 08:33	12/20/24 11:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 08:33	12/20/24 11:07	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/20/24 08:33	12/20/24 11:07	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 08:33	12/20/24 11:07	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/20/24 08:33	12/20/24 11:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*12/20/24 08:33*	*12/20/24 11:07*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*12/20/24 08:33*	*12/20/24 11:07*	*1*

Lab Sample ID: LCS 880-98435/1-A
Matrix: Solid
Analysis Batch: 98353

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 98435

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1025		mg/Kg		103	70 - 130		
Toluene			0.100	0.1077		mg/Kg		108	70 - 130		
Ethylbenzene			0.100	0.1037		mg/Kg		104	70 - 130		
m-Xylene & p-Xylene			0.200	0.2015		mg/Kg		101	70 - 130		
o-Xylene			0.100	0.1117		mg/Kg		112	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: LCSD 880-98435/2-A
Matrix: Solid
Analysis Batch: 98353

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 98435

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1068		mg/Kg		107	70 - 130	4	35
Toluene			0.100	0.1103		mg/Kg		110	70 - 130	2	35
Ethylbenzene			0.100	0.1065		mg/Kg		107	70 - 130	3	35
m-Xylene & p-Xylene			0.200	0.2041		mg/Kg		102	70 - 130	1	35
o-Xylene			0.100	0.1136		mg/Kg		114	70 - 130	2	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

QC Sample Results

Client: Crain Environmental
Project/Site: Chem State #1

Job ID: 880-52508-1

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

Lab Sample ID: MB 880-98956/1-A
Matrix: Solid
Analysis Batch: 99130

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 98956

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		12/27/24 13:36	12/31/24 19:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/27/24 13:36	12/31/24 19:49	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/27/24 13:36	12/31/24 19:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*115*		*70 - 130*	*12/27/24 13:36*	*12/31/24 19:49*	*1*
o-Terphenyl	*130*		*70 - 130*	*12/27/24 13:36*	*12/31/24 19:49*	*1*

Lab Sample ID: LCS 880-98956/2-A
Matrix: Solid
Analysis Batch: 99130

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 98956

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1073		mg/Kg		107	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1076		mg/Kg		108	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*97*		*70 - 130*
o-Terphenyl	*100*		*70 - 130*

Lab Sample ID: LCSD 880-98956/3-A
Matrix: Solid
Analysis Batch: 99130

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 98956

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	956.5		mg/Kg		96	70 - 130	11	20
Diesel Range Organics (Over C10-C28)	1000	981.6		mg/Kg		98	70 - 130	9	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*104*		*70 - 130*
o-Terphenyl	*107*		*70 - 130*

Lab Sample ID: 880-52508-1 MS
Matrix: Solid
Analysis Batch: 99130

Client Sample ID: S-1 (9')
Prep Type: Total/NA
Prep Batch: 98956

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1 F2	997	685.7	F1	mg/Kg		65	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	997	748.9		mg/Kg		72	70 - 130

QC Sample Results

Client: Crain Environmental
Project/Site: Chem State #1

Job ID: 880-52508-1

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

Lab Sample ID: 880-52508-1 MS
Matrix: Solid
Analysis Batch: 99130

Client Sample ID: S-1 (9')
Prep Type: Total/NA
Prep Batch: 98956

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*86*		*70 - 130*
o-Terphenyl	*83*		*70 - 130*

Lab Sample ID: 880-52508-1 MSD
Matrix: Solid
Analysis Batch: 99130

Client Sample ID: S-1 (9')
Prep Type: Total/NA
Prep Batch: 98956

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1 F2	997	1053	F2	mg/Kg		102	70 - 130	42	20
Diesel Range Organics (Over C10-C28)	<50.0	U	997	876.0		mg/Kg		85	70 - 130	16	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*98*		*70 - 130*
o-Terphenyl	*95*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-98551/1-A
Matrix: Solid
Analysis Batch: 98576

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			12/24/24 15:39	1

Lab Sample ID: LCS 880-98551/2-A
Matrix: Solid
Analysis Batch: 98576

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	264.8		mg/Kg		106	90 - 110

Lab Sample ID: LCSD 880-98551/3-A
Matrix: Solid
Analysis Batch: 98576

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	265.1		mg/Kg		106	90 - 110	0	20

QC Association Summary

Client: Crain Environmental
Project/Site: Chem State #1

Job ID: 880-52508-1

GC VOA

Analysis Batch: 98353

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52508-1	S-1 (9')	Total/NA	Solid	8021B	98435
880-52508-2	S-11 (0-4')	Total/NA	Solid	8021B	98435
880-52508-3	S-11 (4-9')	Total/NA	Solid	8021B	98435
880-52508-4	S-12 (0-4')	Total/NA	Solid	8021B	98435
880-52508-5	S-12 (4-9')	Total/NA	Solid	8021B	98435
880-52508-6	S-13 (0-4')	Total/NA	Solid	8021B	98435
880-52508-7	S-13 (4-9')	Total/NA	Solid	8021B	98435
880-52508-8	S-14 (0-4')	Total/NA	Solid	8021B	98435
MB 880-98435/5-A	Method Blank	Total/NA	Solid	8021B	98435
LCS 880-98435/1-A	Lab Control Sample	Total/NA	Solid	8021B	98435
LCSD 880-98435/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	98435

Prep Batch: 98435

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52508-1	S-1 (9')	Total/NA	Solid	5035	
880-52508-2	S-11 (0-4')	Total/NA	Solid	5035	
880-52508-3	S-11 (4-9')	Total/NA	Solid	5035	
880-52508-4	S-12 (0-4')	Total/NA	Solid	5035	
880-52508-5	S-12 (4-9')	Total/NA	Solid	5035	
880-52508-6	S-13 (0-4')	Total/NA	Solid	5035	
880-52508-7	S-13 (4-9')	Total/NA	Solid	5035	
880-52508-8	S-14 (0-4')	Total/NA	Solid	5035	
MB 880-98435/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-98435/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-98435/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 98502

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52508-1	S-1 (9')	Total/NA	Solid	Total BTEX	
880-52508-2	S-11 (0-4')	Total/NA	Solid	Total BTEX	
880-52508-3	S-11 (4-9')	Total/NA	Solid	Total BTEX	
880-52508-4	S-12 (0-4')	Total/NA	Solid	Total BTEX	
880-52508-5	S-12 (4-9')	Total/NA	Solid	Total BTEX	
880-52508-6	S-13 (0-4')	Total/NA	Solid	Total BTEX	
880-52508-7	S-13 (4-9')	Total/NA	Solid	Total BTEX	
880-52508-8	S-14 (0-4')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 98956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52508-1	S-1 (9')	Total/NA	Solid	8015NM Prep	
880-52508-2	S-11 (0-4')	Total/NA	Solid	8015NM Prep	
880-52508-3	S-11 (4-9')	Total/NA	Solid	8015NM Prep	
880-52508-4	S-12 (0-4')	Total/NA	Solid	8015NM Prep	
880-52508-5	S-12 (4-9')	Total/NA	Solid	8015NM Prep	
880-52508-6	S-13 (0-4')	Total/NA	Solid	8015NM Prep	
880-52508-7	S-13 (4-9')	Total/NA	Solid	8015NM Prep	
880-52508-8	S-14 (0-4')	Total/NA	Solid	8015NM Prep	
MB 880-98956/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-98956/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Crain Environmental
Project/Site: Chem State #1

Job ID: 880-52508-1

GC Semi VOA (Continued)

Prep Batch: 98956 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-98956/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-52508-1 MS	S-1 (9')	Total/NA	Solid	8015NM Prep	
880-52508-1 MSD	S-1 (9')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 99130

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52508-1	S-1 (9')	Total/NA	Solid	8015B NM	98956
880-52508-2	S-11 (0-4')	Total/NA	Solid	8015B NM	98956
880-52508-3	S-11 (4-9')	Total/NA	Solid	8015B NM	98956
880-52508-4	S-12 (0-4')	Total/NA	Solid	8015B NM	98956
880-52508-5	S-12 (4-9')	Total/NA	Solid	8015B NM	98956
880-52508-6	S-13 (0-4')	Total/NA	Solid	8015B NM	98956
880-52508-7	S-13 (4-9')	Total/NA	Solid	8015B NM	98956
880-52508-8	S-14 (0-4')	Total/NA	Solid	8015B NM	98956
MB 880-98956/1-A	Method Blank	Total/NA	Solid	8015B NM	98956
LCS 880-98956/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	98956
LCSD 880-98956/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	98956
880-52508-1 MS	S-1 (9')	Total/NA	Solid	8015B NM	98956
880-52508-1 MSD	S-1 (9')	Total/NA	Solid	8015B NM	98956

Analysis Batch: 99340

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52508-1	S-1 (9')	Total/NA	Solid	8015 NM	
880-52508-2	S-11 (0-4')	Total/NA	Solid	8015 NM	
880-52508-3	S-11 (4-9')	Total/NA	Solid	8015 NM	
880-52508-4	S-12 (0-4')	Total/NA	Solid	8015 NM	
880-52508-5	S-12 (4-9')	Total/NA	Solid	8015 NM	
880-52508-6	S-13 (0-4')	Total/NA	Solid	8015 NM	
880-52508-7	S-13 (4-9')	Total/NA	Solid	8015 NM	
880-52508-8	S-14 (0-4')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 98551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52508-1	S-1 (9')	Soluble	Solid	DI Leach	
880-52508-2	S-11 (0-4')	Soluble	Solid	DI Leach	
880-52508-3	S-11 (4-9')	Soluble	Solid	DI Leach	
880-52508-4	S-12 (0-4')	Soluble	Solid	DI Leach	
880-52508-5	S-12 (4-9')	Soluble	Solid	DI Leach	
880-52508-6	S-13 (0-4')	Soluble	Solid	DI Leach	
880-52508-7	S-13 (4-9')	Soluble	Solid	DI Leach	
880-52508-8	S-14 (0-4')	Soluble	Solid	DI Leach	
MB 880-98551/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-98551/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-98551/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 98576

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52508-1	S-1 (9')	Soluble	Solid	300.0	98551
880-52508-2	S-11 (0-4')	Soluble	Solid	300.0	98551

QC Association Summary

Client: Crain Environmental
Project/Site: Chem State #1

Job ID: 880-52508-1

HPLC/IC (Continued)

Analysis Batch: 98576 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52508-3	S-11 (4-9')	Soluble	Solid	300.0	98551
880-52508-4	S-12 (0-4')	Soluble	Solid	300.0	98551
880-52508-5	S-12 (4-9')	Soluble	Solid	300.0	98551
880-52508-6	S-13 (0-4')	Soluble	Solid	300.0	98551
880-52508-7	S-13 (4-9')	Soluble	Solid	300.0	98551
880-52508-8	S-14 (0-4')	Soluble	Solid	300.0	98551
MB 880-98551/1-A	Method Blank	Soluble	Solid	300.0	98551
LCS 880-98551/2-A	Lab Control Sample	Soluble	Solid	300.0	98551
LCSD 880-98551/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	98551

Lab Chronicle

Client: Crain Environmental
Job ID: 880-52508-1
Project/Site: Chem State #1

Client Sample ID: S-1 (9')
Lab Sample ID: 880-52508-1
Date Collected: 12/18/24 09:45
Matrix: Solid
Date Received: 12/19/24 13:52

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	98435	12/20/24 08:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98353	12/20/24 13:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98502	12/20/24 13:54	SM	EET MID
Total/NA	Analysis	8015 NM		1			99340	12/31/24 20:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98956	12/27/24 13:36	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99130	12/31/24 20:51	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	98551	12/21/24 14:11	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98576	12/24/24 16:20	CH	EET MID

Client Sample ID: S-11 (0-4')
Lab Sample ID: 880-52508-2
Date Collected: 12/18/24 09:50
Matrix: Solid
Date Received: 12/19/24 13:52

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	98435	12/20/24 08:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98353	12/20/24 14:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98502	12/20/24 14:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			99340	12/31/24 21:52	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	98956	12/27/24 13:36	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99130	12/31/24 21:52	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	98551	12/21/24 14:11	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98576	12/24/24 16:26	CH	EET MID

Client Sample ID: S-11 (4-9')
Lab Sample ID: 880-52508-3
Date Collected: 12/18/24 09:55
Matrix: Solid
Date Received: 12/19/24 13:52

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	98435	12/20/24 08:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98353	12/20/24 14:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98502	12/20/24 14:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			99340	12/31/24 22:13	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	98956	12/27/24 13:36	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99130	12/31/24 22:13	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	98551	12/21/24 14:11	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98576	12/24/24 16:32	CH	EET MID

Client Sample ID: S-12 (0-4')
Lab Sample ID: 880-52508-4
Date Collected: 12/18/24 10:00
Matrix: Solid
Date Received: 12/19/24 13:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	98435	12/20/24 08:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98353	12/20/24 16:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98502	12/20/24 16:08	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Crain Environmental
Project/Site: Chem State #1

Job ID: 880-52508-1

Client Sample ID: S-12 (0-4')

Lab Sample ID: 880-52508-4
Matrix: Solid
Date Collected: 12/18/24 10:00
Date Received: 12/19/24 13:52

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			99340	12/31/24 22:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98956	12/27/24 13:36	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99130	12/31/24 22:33	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	98551	12/21/24 14:11	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98576	12/24/24 16:50	CH	EET MID

Client Sample ID: S-12 (4-9')

Lab Sample ID: 880-52508-5
Matrix: Solid
Date Collected: 12/18/24 10:05
Date Received: 12/19/24 13:52

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	98435	12/20/24 08:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98353	12/20/24 16:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98502	12/20/24 16:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			99340	12/31/24 22:54	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	98956	12/27/24 13:36	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99130	12/31/24 22:54	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	98551	12/21/24 14:11	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98576	12/24/24 16:56	CH	EET MID

Client Sample ID: S-13 (0-4')

Lab Sample ID: 880-52508-6
Matrix: Solid
Date Collected: 12/18/24 10:10
Date Received: 12/19/24 13:52

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	98435	12/20/24 08:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98353	12/20/24 16:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98502	12/20/24 16:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			99340	12/31/24 23:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	98956	12/27/24 13:36	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99130	12/31/24 23:14	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	98551	12/21/24 14:11	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98576	12/24/24 17:02	CH	EET MID

Client Sample ID: S-13 (4-9')

Lab Sample ID: 880-52508-7
Matrix: Solid
Date Collected: 12/18/24 10:15
Date Received: 12/19/24 13:52

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	98435	12/20/24 08:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98353	12/20/24 17:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98502	12/20/24 17:10	SM	EET MID
Total/NA	Analysis	8015 NM		1			99340	12/31/24 23:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	98956	12/27/24 13:36	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99130	12/31/24 23:34	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Crain Environmental
Job ID: 880-52508-1
Project/Site: Chem State #1

Client Sample ID: S-13 (4-9')
Lab Sample ID: 880-52508-7
Date Collected: 12/18/24 10:15
Matrix: Solid
Date Received: 12/19/24 13:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	98551	12/21/24 14:11	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98576	12/24/24 17:08	CH	EET MID

Client Sample ID: S-14 (0-4')
Lab Sample ID: 880-52508-8
Date Collected: 12/18/24 10:20
Matrix: Solid
Date Received: 12/19/24 13:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	98435	12/20/24 08:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98353	12/20/24 17:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98502	12/20/24 17:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			99340	12/31/24 23:54	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	98956	12/27/24 13:36	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99130	12/31/24 23:54	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	98551	12/21/24 14:11	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	98576	12/24/24 17:13	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Crain Environmental
Project/Site: Chem State #1

Job ID: 880-52508-1

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	06-30-25

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: Chem State #1

Job ID: 880-52508-1

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: Chem State #1

Job ID: 880-52508-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-52508-1	S-1 (9')	Solid	12/18/24 09:45	12/19/24 13:52	9
880-52508-2	S-11 (0-4')	Solid	12/18/24 09:50	12/19/24 13:52	0 - 4
880-52508-3	S-11 (4-9')	Solid	12/18/24 09:55	12/19/24 13:52	4 - 9
880-52508-4	S-12 (0-4')	Solid	12/18/24 10:00	12/19/24 13:52	0 - 4
880-52508-5	S-12 (4-9')	Solid	12/18/24 10:05	12/19/24 13:52	4 - 9
880-52508-6	S-13 (0-4')	Solid	12/18/24 10:10	12/19/24 13:52	0 - 4
880-52508-7	S-13 (4-9')	Solid	12/18/24 10:15	12/19/24 13:52	4 - 9
880-52508-8	S-14 (0-4')	Solid	12/18/24 10:20	12/19/24 13:52	0 - 4

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Chain of Custody

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

Work O

880-52508 Chain of Custody

www.x

Project Manager:	Cindy Crain	Bill to: (if different)	Chris Gaddy
Company Name:	Crain Environmental	Company Name:	Octane
Address:	2925 E. 17th St.	Address:	310 W. Wall, Ste. 300
City, State ZIP:	Odessa, TX 79761	City, State ZIP:	Midland, TX 79701
Phone:	(575) 441-7244	Email:	Cindy.Crain@gmail.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project: NM
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Chem State #1	Turn Around	☒ Routine ☐ Rush
Project Number:	-	Due Date:	
Project Location:	Lea Co. NM	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Cindy Crain		
PO #:	-		

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Samples Received Intact:	(Yes) No	Thermometer ID:	IR-8
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.1
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	4.3
Total Containers:		Corrected Temperature:	4.2

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3: HN
H_2SO_4: H_2 | NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: TPH 8015 M	Chlorides	BTEX	Sample Comments
S-1 (9')	S	12/18/24	0945	9'	C	1		X	X	X	
S-11 (0-4')			0950	0-4'							
S-11 (4-9')			0955	4-9'							
S-12 (0-4')			1000	0-4'							
S-12 (4-9')			1005	4-9'							
S-13 (0-4')			1010	0-4'							
S-13 (4-9')			1015	4-9'							
S-14 (0-4')	↓	↓	1020	0-4'	↓	↓		↓	↓	↓	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl 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 Tl U Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Cindy Crain	Kelly Rendell La	12/19/24 13:52			
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Crain Environmental Job Number: 880-52508-1

Login Number: 52508 **List Source: Eurofins Midland**
List Number: 1
Creator: Lee, Randell

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

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 2/28/2025 7:47:13 PM

JOB DESCRIPTION

Chem State #1
Lea Co. NM

JOB NUMBER

880-54893-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

my EOL

Eurofins Midland

Job Notes

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

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

Authorization

Generated
2/28/2025 7:47:13 PM

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

Client: Crain Environmental
Project/Site: Chem State #1

Laboratory Job ID: 880-54893-1
SDG: Lea Co. NM

Table of Contents

Definitions/Glossary

Client: Crain Environmental
Project/Site: Chem State #1

Job ID: 880-54893-1
SDG: Lea Co. NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low 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.
☼	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: Chem State #1

Job ID: 880-54893-1

Job ID: 880-54893-1 Eurofins Midland

Job Narrative
880-54893-1

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

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

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

Receipt
The sample was received on 2/26/2025 8:35 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.1°C.

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

Diesel Range Organics
Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: S-15 (9') (880-54893-1). Evidence of matrix interferences is not obvious.

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

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

Client Sample Results

Client: Crain Environmental
Project/Site: Chem State #1

Job ID: 880-54893-1
SDG: Lea Co. NM

Client Sample ID: S-15 (9')

Date Collected: 02/25/25 13:30
Date Received: 02/26/25 08:35
Sample Depth: 9'

Lab Sample ID: 880-54893-1

Matrix: Solid

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		02/27/25 08:08	02/27/25 14:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/27/25 08:08	02/27/25 14:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/27/25 08:08	02/27/25 14:49	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/27/25 08:08	02/27/25 14:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/27/25 08:08	02/27/25 14:49	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/27/25 08:08	02/27/25 14:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*02/27/25 08:08*	*02/27/25 14:49*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*02/27/25 08:08*	*02/27/25 14:49*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/27/25 14:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			02/27/25 22:26	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		02/26/25 10:50	02/27/25 22:26	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/26/25 10:50	02/27/25 22:26	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/26/25 10:50	02/27/25 22:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*80*		*70 - 130*	*02/26/25 10:50*	*02/27/25 22:26*	*1*
o-Terphenyl	*68*	*S1-*	*70 - 130*	*02/26/25 10:50*	*02/27/25 22:26*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**30.3**		9.96		mg/Kg			02/28/25 00:40	1

Surrogate Summary

Client: Crain Environmental
Project/Site: Chem State #1

Job ID: 880-54893-1
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)
880-54893-1	S-15 (9')	104	99
LCS 880-103801/1-A	Lab Control Sample	95	108
LCSD 880-103801/2-A	Lab Control Sample Dup	98	107
MB 880-103801/5-A	Method Blank	98	93

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)
880-54893-1	S-15 (9')	80	68 S1-
LCS 880-103737/2-A	Lab Control Sample	94	84
LCSD 880-103737/3-A	Lab Control Sample Dup	93	83
MB 880-103737/1-A	Method Blank	120	107

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Crain Environmental
Project/Site: Chem State #1

Job ID: 880-54893-1
SDG: Lea Co. NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-103801/5-A
Matrix: Solid
Analysis Batch: 103809

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 103801

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/27/25 08:08	02/27/25 11:44	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/27/25 08:08	02/27/25 11:44	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/27/25 08:08	02/27/25 11:44	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		02/27/25 08:08	02/27/25 11:44	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/27/25 08:08	02/27/25 11:44	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		02/27/25 08:08	02/27/25 11:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*02/27/25 08:08*	*02/27/25 11:44*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*02/27/25 08:08*	*02/27/25 11:44*	*1*

Lab Sample ID: LCS 880-103801/1-A
Matrix: Solid
Analysis Batch: 103809

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 103801

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1046		mg/Kg		105	70 - 130		
Toluene			0.100	0.09509		mg/Kg		95	70 - 130		
Ethylbenzene			0.100	0.1028		mg/Kg		103	70 - 130		
m-Xylene & p-Xylene			0.200	0.2134		mg/Kg		107	70 - 130		
o-Xylene			0.100	0.1065		mg/Kg		107	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*

Lab Sample ID: LCSD 880-103801/2-A
Matrix: Solid
Analysis Batch: 103809

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 103801

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09949		mg/Kg		99	70 - 130	5	35
Toluene			0.100	0.08941		mg/Kg		89	70 - 130	6	35
Ethylbenzene			0.100	0.09630		mg/Kg		96	70 - 130	7	35
m-Xylene & p-Xylene			0.200	0.1998		mg/Kg		100	70 - 130	7	35
o-Xylene			0.100	0.1013		mg/Kg		101	70 - 130	5	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*

QC Sample Results

Client: Crain Environmental
Project/Site: Chem State #1

Job ID: 880-54893-1
SDG: Lea Co. NM

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

Lab Sample ID: MB 880-103737/1-A
Matrix: Solid
Analysis Batch: 103814

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 103737

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		02/26/25 10:40	02/27/25 17:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/26/25 10:40	02/27/25 17:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/26/25 10:40	02/27/25 17:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*120*		*70 - 130*	*02/26/25 10:40*	*02/27/25 17:31*	*1*
o-Terphenyl	*107*		*70 - 130*	*02/26/25 10:40*	*02/27/25 17:31*	*1*

Lab Sample ID: LCS 880-103737/2-A
Matrix: Solid
Analysis Batch: 103814

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 103737

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1189		mg/Kg		119	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1067		mg/Kg		107	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*94*		*70 - 130*
o-Terphenyl	*84*		*70 - 130*

Lab Sample ID: LCSD 880-103737/3-A
Matrix: Solid
Analysis Batch: 103814

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 103737

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1147		mg/Kg		115	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	1000	1034		mg/Kg		103	70 - 130	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*93*		*70 - 130*
o-Terphenyl	*83*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-103756/1-A
Matrix: Solid
Analysis Batch: 103850

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			02/28/25 00:22	1

QC Sample Results

Client: Crain Environmental
Project/Site: Chem State #1

Job ID: 880-54893-1
SDG: Lea Co. NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-103756/2-A
Matrix: Solid
Analysis Batch: 103850

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	261.4		mg/Kg		105	90 - 110		

Lab Sample ID: LCSD 880-103756/3-A
Matrix: Solid
Analysis Batch: 103850

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	262.2		mg/Kg		105	90 - 110	0	20

Lab Sample ID: 880-54893-1 MS
Matrix: Solid
Analysis Batch: 103850

Client Sample ID: S-15 (9')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	30.3		249	294.9		mg/Kg		106	90 - 110		

Lab Sample ID: 880-54893-1 MSD
Matrix: Solid
Analysis Batch: 103850

Client Sample ID: S-15 (9')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	30.3		249	295.3		mg/Kg		106	90 - 110	0	20

QC Association Summary

Client: Crain Environmental
Project/Site: Chem State #1

Job ID: 880-54893-1
SDG: Lea Co. NM

GC VOA

Prep Batch: 103801

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54893-1	S-15 (9')	Total/NA	Solid	5035	
MB 880-103801/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-103801/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-103801/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 103809

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54893-1	S-15 (9')	Total/NA	Solid	8021B	103801
MB 880-103801/5-A	Method Blank	Total/NA	Solid	8021B	103801
LCS 880-103801/1-A	Lab Control Sample	Total/NA	Solid	8021B	103801
LCSD 880-103801/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	103801

Analysis Batch: 104014

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54893-1	S-15 (9')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 103737

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54893-1	S-15 (9')	Total/NA	Solid	8015NM Prep	
MB 880-103737/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-103737/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-103737/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 103814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54893-1	S-15 (9')	Total/NA	Solid	8015B NM	103737
MB 880-103737/1-A	Method Blank	Total/NA	Solid	8015B NM	103737
LCS 880-103737/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	103737
LCSD 880-103737/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	103737

Analysis Batch: 103995

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54893-1	S-15 (9')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 103756

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54893-1	S-15 (9')	Soluble	Solid	DI Leach	
MB 880-103756/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-103756/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-103756/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-54893-1 MS	S-15 (9')	Soluble	Solid	DI Leach	
880-54893-1 MSD	S-15 (9')	Soluble	Solid	DI Leach	

Analysis Batch: 103850

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-54893-1	S-15 (9')	Soluble	Solid	300.0	103756
MB 880-103756/1-A	Method Blank	Soluble	Solid	300.0	103756
LCS 880-103756/2-A	Lab Control Sample	Soluble	Solid	300.0	103756

QC Association Summary

Client: Crain Environmental
Project/Site: Chem State #1

Job ID: 880-54893-1
SDG: Lea Co. NM

HPLC/IC (Continued)

Analysis Batch: 103850 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-103756/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	103756
880-54893-1 MS	S-15 (9')	Soluble	Solid	300.0	103756
880-54893-1 MSD	S-15 (9')	Soluble	Solid	300.0	103756

Lab Chronicle

Client: Crain Environmental
Project/Site: Chem State #1

Job ID: 880-54893-1
SDG: Lea Co. NM

Client Sample ID: S-15 (9')

Date Collected: 02/25/25 13:30
Date Received: 02/26/25 08:35

Lab Sample ID: 880-54893-1

Matrix: Solid

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	103801	02/27/25 08:08	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103809	02/27/25 14:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			104014	02/27/25 14:49	AJ	EET MID
Total/NA	Analysis	8015 NM		1			103995	02/27/25 22:26	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	103737	02/26/25 10:50	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	103814	02/27/25 22:26	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	103756	02/26/25 14:48	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	103850	02/28/25 00:40	SMC	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Crain Environmental
Project/Site: Chem State #1

Job ID: 880-54893-1
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	06-30-25

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: Chem State #1

Job ID: 880-54893-1
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: Chem State #1

Job ID: 880-54893-1
SDG: Lea Co. NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-54893-1	S-15 (9')	Solid	02/25/25 13:30	02/26/25 08:35	9'

eurofins | Environment Testing Xenco

Chain of Custody

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

Work Order No: 880-54893 Chain of Custody

Project Manager:	Cindy Crain	Bill to: (if different)	Chris Gaddy
Company Name:	Crain Environmental	Company Name:	Octane
Address:	2925 E. 17th St.	Address:	310 W. Wall, Ste. 300
City, State ZIP:	Odessa, TX 79761	City, State ZIP:	Midland, TX 79701
Phone:	(575) 441-7244 Email:		Cindy.crain@gmail.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project: NM
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Chem State #1	Turn Around	☒ Routine ☐ Rush
Project Number:	-	Due Date:	
Project Location:	Lea Co., NM	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Cindy Crain		
PO #:	-		

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Samples Received Intact:	(Yes) No	Thermometer ID:	IR4
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	5.2
Total Containers:		Corrected Temperature:	5.1

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: TPH 8015M	BTEX	Chlorides	Sample Comments
S-15 (9')	S	2/25/25	1330	9'	C	1		X	X	X	

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2SO_4: H_2; NaOH: Na; H_3PO_4: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: $NaSO_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

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 Tl 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 Tl U Hg: 1631 / 245.1 / 7470 / 7471

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Cindy Crain		2/26/25 835	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Crain Environmental

Job Number: 880-54893-1
SDG Number: Lea Co. NM

Login Number: 54893
List Number: 1
Creator: Vasquez, Julisa

List Source: Eurofins Midland

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

Appendix C: Photographic Documentation

Chem State #1
Appendix B

Well sign


View to W of initial investigation (3/12/24).


View of initial remediation (9/6/24).


View of excavation (9/26/24).

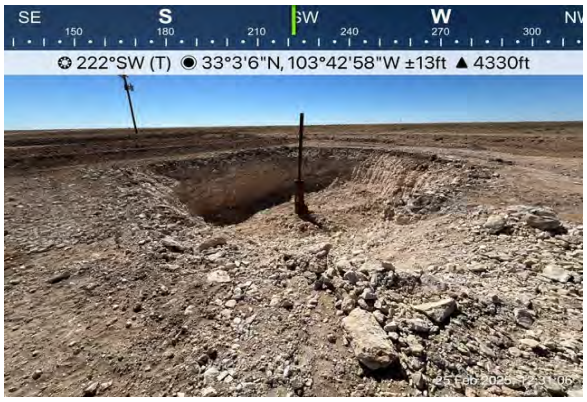

View of excavation (12/18/24).


View of excavation (12/18/24).


View of excavation (12/18/24).


View of excavation (12/18/24).

Chem State #1
Appendix B



View to NW of excavation (2/25/25).

View to SE of excavation (2/25/25).

Grain Environmental

Appendix D: Waste Manifests

GM inc.

NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST / DISPOSAL TICKET

71777

GENERATOR

Generator Name CAMBRIAN

Address

City, State, Zip

Phone No.

Company Man

Location of Origin
Lease/Well Chaves State #1

Name & No.

County

API No.

Rig Name & No.

AFE/PO No.

TRUCK TIME STAMP
IN: 2:15 PM OUT:

DISPOSAL FACILITY

RECEIVING AREA
Name/No. Landfill

Site Name / Permit No. **Commercial Landfill (NM-01-0019)**

Address **P.O. Box 1658 Roswell, NM 88202**

Phone No. 575-347-0434

NORM Readings Taken? (Circle One) YES NO

If YES, was reading > 50 micro roentgens? (Circle One) YES NO

Pass the Paint Filter Test? (Circle One) YES NO

TRANSPORTER

Transporter's Name EL Primo

Address

Phone No.

Print Name

Truck No. 01

Bin No.

Phone No.

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE | DRIVER'S SIGNATURE | 9-14-24 DELIVERY DATE | DRIVER'S SIGNATURE

Exempt E&P Waste/Service Identification and Amount (Place volume next to waste type in barrels or cubic yards)

Oil Based Muds		Completion Fluid/Flowback		OTHER EXEMPT WASTE	
Oil Based Cuttings		Produced Water (Non-Injectable)			
Water Based Muds		Gathering Line Water/Waste			
Water Based Cuttings		Cement Water			
Produced Formation Solids		Truck Washout /Jet Out		OTHER NON-EXEMPT WASTE	
Tank Bottoms		Trash & Debris			
E&P Contaminated Soil	✓				
Gas Plant Waste					

WASTE GENERATION PROCESS: ❑ Drilling ❑ Completion ❑ Production ❑ Gathering Lines

Non-Exempt E&P Waste/Service Identification and Amount

(All non-exempt E&P waste must be analyzed and be below the threshold limits for toxicity (TCLP), ignition, corrosiveness, and reactivity.)

Non-Exempt Other:

*Please select from Non-Exempt Waste List on back

QUANTITY: B - Barrels L - Liquid 20 Y - Yards E - Each

C-138

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is (Check the appropriate classification)

❑ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. (Gandy Marley, Inc. accepts certifications on a per month only basis.)

❑ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided.)

❑ MSDS Information ❑ RCRA Hazardous Waste Analysis ❑ Other (Provide Description Below)

❑ EMERGENCY NON-OILFIELD: Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety. (The order, documentation of non-hazardous waste determination and a description of the waste must accompany this form.)

(PRINT) AUTHORIZED AGENTS SIGNATURE | DATE | SIGNATURE

GMI

GM inc.

NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST / DISPOSAL TICKET

71778

GENERATOR

Generator Name CAMBRIAN
Address
City, State, Zip
Phone No.
Company Man

Location of Origin Lease/Well Chem State #1
Name & No.
County
API No.
Rig Name & No.
AFE/PO No.

DISPOSAL FACILITY

TRUCK TIME STAMP
IN: 1:55 pm OUT:

RECEIVING AREA
Name/No. Landfill

Site Name / Permit No. Commercial Landfill (NM-01-0019)
Address P.O. Box 1658 Roswell, NM 88202
Phone No. 575-347-0434

NORM Readings Taken? (Circle One) YES NO
Pass the Paint Filter Test? (Circle One) YES NO
If YES, was reading > 50 micro roentgens? (Circle One) YES NO

TRANSPORTER

Transporter's Name SL Rim
Address Trucking
Phone No.

Print Name Oscar
Truck No. 01
Bin No.
Phone No.

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE — DRIVER'S SIGNATURE — 9-14-24 DELIVERY DATE — DRIVER'S SIGNATURE

Exempt E&P Waste/Service Identification and Amount (Place volume next to waste type in barrels or cubic yards)

Oil Based Muds		Completion Fluid/Flowback		OTHER EXEMPT WASTE
Oil Based Cuttings		Produced Water (Non-Injectable)		
Water Based Muds		Gathering Line Water/Waste		
Water Based Cuttings		Cement Water		
Produced Formation Solids		Truck Washout /Jet Out		OTHER NON-EXEMPT WASTE
Tank Bottoms		Trash & Debris		
E&P Contaminated Soil	✓			
Gas Plant Waste				

WASTE GENERATION PROCESS: ❑ Drilling ❑ Completion ❑ Production ❑ Gathering Lines

Non-Exempt E&P Waste/Service Identification and Amount
(All non-exempt E&P waste must be analyzed and be below the threshold limits for toxicity (TCLP), ignition, corrosiveness, and reactivity.)

Non-Exempt Other: *Please select from Non-Exempt Waste List on back

QUANTITY: ____ B - Barrels ____ L - Liquid 20 Y - Yards ____ E - Each

C-138

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is (Check the appropriate classification)

❑ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. (Gandy Marley, Inc. accepts certifications on a per month only basis.)

❑ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided.)

❑ MSDS Information ❑ RCRA Hazardous Waste Analysis ❑ Other (Provide Description Below)

❑ EMERGENCY NON-OILFIELD: Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety. (The order, documentation of non-hazardous waste determination and a description of the waste must accompany this form.)

(PRINT) AUTHORIZED AGENTS SIGNATURE — DATE — SIGNATURE

GMI

GM inc.

NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST / DISPOSAL TICKET

71775

GENERATOR

Generator Name CAMBRIAN

Address MIDLAND

City, State, Zip

Phone No.

Company Man

Location of Origin Lease/Well CHEN STATE #1

Name & No.

County

API No.

Rig Name & No.

AFE/PO No.

TRUCK TIME STAMP

IN: 11:20 AM OUT:

DISPOSAL FACILITY

RECEIVING AREA

Name/No. Landfill

Site Name / Permit No. **Commercial Landfill (NM-01-0019)**

Address **P.O. Box 1658 Roswell, NM 88202**

Phone No. **575-347-0434**

NORM Readings Taken? (Circle One) YES NO

If YES, was reading > 50 micro roentgens? (Circle One) YES NO

Pass the Paint Filter Test? (Circle One) YES NO

TRANSPORTER

Transporter's Name Primo Trucking

Address

Phone No.

Print Name OSCAR

Truck No. 01

Bin No.

Phone No.

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE | DRIVER'S SIGNATURE | 9-14-24 DELIVERY DATE | DRIVER'S SIGNATURE

Exempt E&P Waste/Service Identification and Amount (Place volume next to waste type in barrels or cubic yards)

Oil Based Muds		Completion Fluid/Flowback		OTHER EXEMPT WASTE
Oil Based Cuttings		Produced Water (Non-Injectable)		
Water Based Muds		Gathering Line Water/Waste		
Water Based Cuttings		Cement Water		
Produced Formation Solids		Truck Washout /Jet Out		OTHER NON-EXEMPT WASTE
Tank Bottoms		Trash & Debris		
E&P Contaminated Soil	✓			
Gas Plant Waste				

WASTE GENERATION PROCESS: ❑ Drilling ❑ Completion ❑ Production ❑ Gathering Lines

Non-Exempt E&P Waste/Service Identification and Amount

(All non-exempt E&P waste must be analyzed and be below the threshold limits for toxicity (TCLP), ignition, corrosiveness, and reactivity.)

Non-Exempt Other: *Please select from Non-Exempt Waste List on back

QUANTITY: B - Barrels L - Liquid 75 Y - Yards E - Each

C-138

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is (Check the appropriate classification)

❑ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. (Gandy Marley, Inc. accepts certifications on a per month only basis.)

❑ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided.)

❑ MSDS Information ❑ RCRA Hazardous Waste Analysis ❑ Other (Provide Description Below)

❑ EMERGENCY NON-OILFIELD: Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety. (The order, documentation of non-hazardous waste determination and a description of the waste must accompany this form.)

(PRINT) AUTHORIZED AGENTS SIGNATURE | DATE | SIGNATURE

9-14-24

GMI

GM inc.

NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST / DISPOSAL TICKET

71773

GENERATOR

Generator Name: Camarillo Harvey
Address:
City, State, Zip:
Phone No.:
Company Man: Chris Gandy

Location of Origin Lease/Well: Horn State #1
Name & No.:
County:
API No.:
Rig Name & No.:
AFE/PO No.:

TRUCK TIME STAMP	
IN: 8:25 Am	OUT:

DISPOSAL FACILITY

RECEIVING AREA
Name/No. Landfill

Site Name / Permit No. Commercial Landfill (NM-01-0019)
Address P.O. Box 1658 Roswell, NM 88202
Phone No. 575-347-0434

NORM Readings Taken? (Circle One) YES NO
Pass the Paint Filter Test? (Circle One) YES NO
If YES, was reading > 50 micro roentgens? (Circle One) YES NO

TRANSPORTER

Transporter's Name: Trucking
Address: Primo
Phone No.:

Print Name: Oscar
Truck No.: 01
Bin No.:
Phone No.:

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE ______ DRIVER'S SIGNATURE ______ DELIVERY DATE 9-14-21 DRIVER'S SIGNATURE Oscar A. Arrieta

Exempt E&P Waste/Service Identification and Amount (Place volume next to waste type in barrels or cubic yards)

Oil Based Muds		Completion Fluid/Flowback		OTHER EXEMPT WASTE
Oil Based Cuttings		Produced Water (Non-Injectable)		
Water Based Muds		Gathering Line Water/Waste		
Water Based Cuttings		Cement Water		
Produced Formation Solids		Truck Washout /Jet Out		OTHER NON-EXEMPT WASTE
Tank Bottoms		Trash & Debris		
E&P Contaminated Soil	✓			
Gas Plant Waste				

WASTE GENERATION PROCESS: ❑ Drilling ❑ Completion ❑ Production ❑ Gathering Lines

Non-Exempt E&P Waste/Service Identification and Amount

(All non-exempt E&P waste must be analyzed and be below the threshold limits for toxicity (TCLP), ignition, corrosiveness, and reactivity.)

Non-Exempt Other: ______ *Please select from Non-Exempt Waste List on back

QUANTITY: ______ B - Barrels ______ L - Liquid 20 Y - Yards ______ E - Each

C-138

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is (Check the appropriate classification)

❑ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. (Gandy Marley, Inc. accepts certifications on a per month only basis.)

❑ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided.)

❑ MSDS Information ❑ RCRA Hazardous Waste Analysis ❑ Other (Provide Description Below)

❑ EMERGENCY NON-OILFIELD: Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety. (The order, documentation of non-hazardous waste determination and a description of the waste must accompany this form.)

(PRINT) AUTHORIZED AGENTS SIGNATURE ______ DATE ______ SIGNATURE ______

GMI

GML inc.

NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST/DISPOSAL TICKET

Ticket Number
106221
09/16/24 01:54 PM

GENERATOR

Generator: CAMBRIAN MANAGEMENT
Generator Contact:
PO BOX 272
MIDLAND, TX 79702
Phone No.: (432)620-9181

Lease: CHEM STATE #1
Location: CHEM STATE #1
Job Contact: CHRIS GADDY
Phone Number: (432)620-9181
Email:

DISPOSAL FACILITY

Site Name/Permit No.: Commercial Landfarm (NM-711-1-0020)
P.O. Box 1658
Roswell, NM 88202
Office (575) 347-0434
Fax (575)347-0435

NORM Readings Taken: No
Reading > 50 micro roentgens: No
Pass the Paint Filter Test: No
Box Number:

WASTE MATERIAL

Material	Quantity	Cell
OCD EXEMPT SOILS	20.00 YDS	LF

TRANSPORTER

Name: PONDEROSA TRUCKING
Address:
Phone No.:

Driver Name:
Truck Number: 1
Phone No.:

I Hearby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed above.

Osaia Morales

Driver Signature

C-138

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is:

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. (Gandy Marley, Inc. accepts certifications on a per month only basis.)

☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261-24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached:

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis

Other (Provide Description Below)

☐ Emergency Non-Oilfield: Emergency non-hazardous, non-oilfied waste that has been ordered by the Department of Public Safety. (The order, documentation of non-hazardous waste determination, and a description of the waste must accompany this form.)

Name | Signature

Kimberly Murphy | Kimberly Murphy

Name | Signature

GM Inc.

NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST/DISPOSAL TICKET

Ticket Number 106214
09/16/24 11:07 AM

GENERATOR

Generator: CAMBRIAN MANAGEMENT
Generator Contact:
PO BOX 272
MIDLAND, TX 79702
Phone No.: (432)620-9181

Lease: CHEM STATE #1
Location: CHEM STATE #1
Job Contact: CHRIS GADDY
Phone Number: (432)620-9181
Email:

DISPOSAL FACILITY

Site Name/Permit No.: Commercial Landfarm (NM-711-1-0020)
P.O. Box 1658
Roswell, NM 88202
Office (575) 347-0434
Fax (575)347-0435

NORM Readings Taken: No
Reading > 50 micro roentgens: No
Pass the Paint Filter Test: No
Box Number:

WASTE MATERIAL

Material	Quantity	Cell
OCD EXEMPT SOILS	20.00 YDS	LF

TRANSPORTER

Name: PONDEROSA TRUCKING
Address:
Phone No.:

Driver Name:
Truck Number: 1
Phone No.:

I Hearby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed above.

OSCAR A MORALES

Driver Signature

C-138

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is:

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. (Gandy Marley, Inc. accepts certifications on a per month only basis.)

☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261-24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached:

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis

Other (Provide Description Below)

☐ Emergency Non-Oilfield: Emergency non-hazardous, non-oilfied waste that has been ordered by the Department of Public Safety. (The order, documentation of non-hazardous waste determination, and a description of the waste must accompany this form.)

Name Signature

Kimberly Murphy Kimberly Murphy

Name Signature

GM inc.

NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST / DISPOSAL TICKET

71102

GENERATOR

Generator Name Cambrian Mgt

Address

City, State, Zip

Phone No.

Company Man

Location of Origin
Lease/Well Cimarron State #1

Name & No.

County

API No.

Rig Name & No.

AFE/PO No.

TRUCK TIME STAMP

IN: 805am OUT:

DISPOSAL FACILITY

RECEIVING AREA

Name/No. Landfill

Site Name / Permit No. **Commercial Landfill (NM-01-0019)**

Phone No. 575-347-0434

Address **P.O. Box 1658 Roswell, NM 88202**

NORM Readings Taken? (Circle One) YES NO

If YES, was reading > 50 micro roentgens? (Circle One) YES NO

Pass the Paint Filter Test? (Circle One) YES NO

TRANSPORTER

Transporter's Name EL Paso

Print Name

Address

Truck No. 01

Bin No.

Phone No.

Phone No.

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE

DRIVER'S SIGNATURE

9/16/24

DELIVERY DATE

DRIVER'S SIGNATURE

Exempt E&P Waste/Service Identification and Amount (Place volume next to waste type in barrels or cubic yards)

Oil Based Muds		Completion Fluid/Flowback		OTHER EXEMPT WASTE	
Oil Based Cuttings		Produced Water (Non-Injectable)			
Water Based Muds		Gathering Line Water/Waste			
Water Based Cuttings		Cement Water			
Produced Formation Solids		Truck Washout /Jet Out		OTHER NON-EXEMPT WASTE	
Tank Bottoms		Trash & Debris			
E&P Contaminated Soil					
Gas Plant Waste					

WASTE GENERATION PROCESS: ❑ Drilling ❑ Completion ❑ Production ❑ Gathering Lines

Non-Exempt E&P Waste/Service Identification and Amount

(All non-exempt E&P waste must be analyzed and be below the threshold limits for toxicity (TCLP), ignition, corrosiveness, and reactivity.)

Non-Exempt Other:

*Please select from Non-Exempt Waste List on back

QUANTITY: B - Barrels L - Liquid 20 Y - Yards E - Each

C-138

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is (Check the appropriate classification)

❑ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. (Gandy Marley, Inc. accepts certifications on a per month only basis.)

❑ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided.)

❑ MSDS Information ❑ RCRA Hazardous Waste Analysis ❑ Other (Provide Description Below)

❑ EMERGENCY NON-OILFIELD: Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety. (The order, documentation of non-hazardous waste determination and a description of the waste must accompany this form.)

(PRINT) AUTHORIZED AGENTS SIGNATURE

DATE

SIGNATURE

GMI

GM inc.

NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST/DISPOSAL TICKET

Ticket Number
106160
09/13/24 10:27 AM

GENERATOR

Generator: CAMBRIAN MANAGEMENT
Generator Contact:
PO BOX 272
MIDLAND, TX 79702
Phone No.: (432)620-9181

Lease: CHEM STATE #1
Location: CHEM STATE #1
Job Contact: CHRIS GADDY
Phone Number: (432)620-9181
Email:

DISPOSAL FACILITY

Site Name/Permit No.: Commercial Landfarm (NM-711-1-0020)
P.O. Box 1658
Roswell, NM 88202
Office (575) 347-0434
Fax (575)347-0435

NORM Readings Taken: No
Reading > 50 micro roentgens: No
Pass the Paint Filter Test: No
Box Number:

WASTE MATERIAL

Material	Quantity	Cell
OCD EXEMPT SOILS	20.00 YDS	LF

TRANSPORTER

Name: PONDEROSA TRUCKING
Address:
Phone No.:

Driver Name:
Truck Number: 1
Phone No.:

I Hearby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed above.

Oscar A Morales

Driver Signature

C-138

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is:

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. (Gandy Marley, Inc. accepts certifications on a per month only basis.)

☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261-24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached:

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis

Other (Provide Description Below)

☐ Emergency Non-Oilfield: Emergency non-hazardous, non-oilfied waste that has been ordered by the Department of Public Safety. (The order, documentation of non-hazardous waste determination, and a description of the waste must accompany this form.)

Name | Signature

Kimberly Murphy | Kimberly Murphy

Name | Signature

GML inc.

NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST/DISPOSAL TICKET

Ticket Number
106195
09/13/24 03:59 PM

GENERATOR

Generator: CAMBRIAN MANAGEMENT
Generator Contact:
PO BOX 272
MIDLAND, TX 79702
Phone No.: (432)620-9181

Lease: CHEM STATE #1
Location: CHEM STATE #1
Job Contact: CHRIS GADDY
Phone Number: (432)620-9181
Email:

DISPOSAL FACILITY

Site Name/Permit No.: Commercial Landfarm (NM-711-1-0020)
P.O. Box 1658
Roswell, NM 88202
Office (575) 347-0434
Fax (575)347-0435

NORM Readings Taken: No
Reading > 50 micro roentgens: No
Pass the Paint Filter Test: No
Box Number:

WASTE MATERIAL

Material	Quantity	Cell
OCD EXEMPT SOILS	20.00 YDS	LF

TRANSPORTER

Name: PONDEROSA TRUCKING
Address:
Phone No.:

Driver Name:
Truck Number: 1
Phone No.:

I Hearby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed above.

Oscar Morales

Driver Signature

C-138

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is:

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. (Gandy Marley, Inc. accepts certifications on a per month only basis.)

☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261-24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached:

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis

Other (Provide Description Below)

☐ Emergency Non-Oilfield: Emergency non-hazardous, non-oilfied waste that has been ordered by the Department of Public Safety. (The order, documentation of non-hazardous waste determination, and a description of the waste must accompany this form.)

Name | Signature

Kimberly Murphy | Kimberly Murphy

Name | Signature

GML inc.

NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST/DISPOSAL TICKET

Ticket Number
106165
09/13/24 01:06 PM

GENERATOR

Generator: CAMBRIAN MANAGEMENT
Generator Contact:
PO BOX 272
MIDLAND, TX 79702
Phone No.: (432)620-9181

Lease: CHEM STATE #1
Location: CHEM STATE #1
Job Contact: CHRIS GADDY
Phone Number: (432)620-9181
Email:

DISPOSAL FACILITY

Site Name/Permit No.: Commercial Landfarm (NM-711-1-0020)
P.O. Box 1658
Roswell, NM 88202
Office (575) 347-0434
Fax (575)347-0435

NORM Readings Taken: No
Reading > 50 micro roentgens: No
Pass the Paint Filter Test: No
Box Number:

WASTE MATERIAL

Material	Quantity	Cell
OCD EXEMPT SOILS	20.00 YDS	LF

TRANSPORTER

Name: PONDEROSA
Address:
Phone No.:

Driver Name:
Truck Number: 1
Phone No.:

I Hearby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed above.

Oscar A Morales

Driver Signature

C-138

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is:

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. (Gandy Marley, Inc. accepts certifications on a per month only basis.)

☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261-24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached:

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis

Other (Provide Description Below)

☐ Emergency Non-Oilfield: Emergency non-hazardous, non-oilfied waste that has been ordered by the Department of Public Safety. (The order, documentation of non-hazardous waste determination, and a description of the waste must accompany this form.)

Name Signature

Kimberly Murphy Kimberly Murphy

Name Signature

GMI inc.

NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST/DISPOSAL TICKET

Ticket Number
106262
09/17/24 11:05 AM

GENERATOR

Generator: CAMBRIAN MANAGEMENT
Generator Contact:
PO BOX 272
MIDLAND, TX 79702
Phone No.: (432)620-9181

Lease: CHEM STATE #1
Location: CHEM STATE #1
Job Contact: CHRIS GADDY
Phone Number: (432)620-9181
Email:

DISPOSAL FACILITY

Site Name/Permit No.: Commercial Landfarm (NM-711-1-0020)
P.O. Box 1658
Roswell, NM 88202
Office (575) 347-0434
Fax (575)347-0435

NORM Readings Taken: No
Reading > 50 micro roentgens: No
Pass the Paint Filter Test: No
Box Number:

WASTE MATERIAL

Material	Quantity	Cell
OCD EXEMPT SOILS	20.00 YDS	LF

TRANSPORTER

Name: PONDEROSA
Address:
Phone No.:

Driver Name:
Truck Number: 1
Phone No.:

I Hearby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed above.

Roy A Morales

Driver Signature

C-138

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is:

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. (Gandy Marley, Inc. accepts certifications on a per month only basis.)

☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261-24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached:

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis

Other (Provide Description Below)

☐ Emergency Non-Oilfield: Emergency non-hazardous, non-oilfied waste that has been ordered by the Department of Public Safety. (The order, documentation of non-hazardous waste determination, and a description of the waste must accompany this form.)

Name | Signature

Kimberly Murphy

Kimberly Murphy

Name | Signature

GM inc.

NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST / DISPOSAL TICKET

71805

GENERATOR

Generator Name Caulkins Oil

Address

City, State, Zip

Phone No.

Company Man

Location of Origin
Lease/Well Big State #1

Name & No.

County

API No.

Rig Name & No.

AFE/PO No.

TRUCK TIME STAMP

IN: 745 OUT:

DISPOSAL FACILITY

RECEIVING AREA

Name/No. Landfill

Site Name / Permit No. **Commercial Landfill (NM-01-0019)**

Address **P.O. Box 1658 Roswell, NM 88202**

Phone No. 575-347-0434

NORM Readings Taken? (Circle One) YES NO

If YES, was reading > 50 micro roentgens? (Circle One) YES NO

Pass the Paint Filter Test? (Circle One) YES NO

TRANSPORTER

Transporter's Name EL Primo

Address

Phone No.

Print Name

Truck No. 1

Bin No.

Phone No.

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE | DRIVER'S SIGNATURE | 9/17/24 DELIVERY DATE | DRIVER'S SIGNATURE

Exempt E&P Waste/Service Identification and Amount (Place volume next to waste type in barrels or cubic yards)

Oil Based Muds		Completion Fluid/Flowback		OTHER EXEMPT WASTE	
Oil Based Cuttings		Produced Water (Non-Injectable)			
Water Based Muds		Gathering Line Water/Waste			
Water Based Cuttings		Cement Water			
Produced Formation Solids		Truck Washout /Jet Out		OTHER NON-EXEMPT WASTE	
Tank Bottoms		Trash & Debris			
E&P Contaminated Soil					
Gas Plant Waste					

WASTE GENERATION PROCESS: ❑ Drilling ❑ Completion ❑ Production ❑ Gathering Lines

Non-Exempt E&P Waste/Service Identification and Amount

(All non-exempt E&P waste must be analyzed and be below the threshold limits for toxicity (TCLP), ignition, corrosiveness, and reactivity.)

Non-Exempt Other:

*Please select from Non-Exempt Waste List on back

QUANTITY: ____ B - Barrels ____ L - Liquid 20 Y - Yards ____ E - Each

C-138

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is (Check the appropriate classification)

❑ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. (Gandy Marley, Inc. accepts certifications on a per month only basis.)

❑ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided.)

❑ MSDS Information ❑ RCRA Hazardous Waste Analysis ❑ Other (Provide Description Below)

❑ EMERGENCY NON-OILFIELD: Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety. (The order, documentation of non-hazardous waste determination and a description of the waste must accompany this form.)

(PRINT) AUTHORIZED AGENTS SIGNATURE | DATE | SIGNATURE

GML inc.

NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST/DISPOSAL TICKET

Ticket Number
106337
09/18/24 12:08 PM

GENERATOR

Generator: CAMBRIAN MANAGEMENT
Generator Contact:
PO BOX 272
MIDLAND, TX 79702
Phone No.: (432)620-9181

Lease: CHEM STATE #1
Location: CHEM STATE #1
Job Contact: CHRIS GADDY
Phone Number: (432)620-9181
Email:

DISPOSAL FACILITY

Site Name/Permit No.: Commercial Landfarm (NM-711-1-0020)
P.O. Box 1658
Roswell, NM 88202
Office (575) 347-0434
Fax (575)347-0435

NORM Readings Taken: No
Reading > 50 micro roentgens: No
Pass the Paint Filter Test: No
Box Number:

WASTE MATERIAL

Material	Quantity	Cell
OCD EXEMPT SOILS	20.00 YDS	LF

TRANSPORTER

Name: PONDEROSA TRUCKING
Address:
Phone No.:

Driver Name:
Truck Number: 1
Phone No.:

I Hearby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed above.

Oscar A. Morales

Driver Signature

C-138

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is:

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. (Gandy Marley, Inc. accepts certifications on a per month only basis.)

☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261-24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached:

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis

Other (Provide Description Below)

☐ Emergency Non-Oilfield: Emergency non-hazardous, non-oilfied waste that has been ordered by the Department of Public Safety. (The order, documentation of non-hazardous waste determination, and a description of the waste must accompany this form.)

Name | Signature

Kimberly Murphy | Kimberly Murphy

Name | Signature

GM inc.

NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST/DISPOSAL TICKET

Ticket Number 106311
09/18/24 09:06 AM

GENERATOR

Generator: CAMBRIAN MANAGEMENT
Generator Contact:
PO BOX 272
MIDLAND, TX 79702
Phone No.: (432)620-9181

Lease: CHEM STATE #1
Location: CHEM STATE #1
Job Contact: CHRIS GADDY
Phone Number: (432)620-9181
Email:

DISPOSAL FACILITY

Site Name/Permit No.: Commercial Landfarm (NM-711-1-0020)
P.O. Box 1658
Roswell, NM 88202
Office (575) 347-0434
Fax (575)347-0435

NORM Readings Taken: No
Reading > 50 micro roentgens: No
Pass the Paint Filter Test: No
Box Number:

WASTE MATERIAL

Material	Quantity	Cell
OCD EXEMPT SOILS	20.00 YDS	LF

TRANSPORTER

Name: PONDEROSA TRUCKING
Address:
Phone No.:

Driver Name:
Truck Number: 1
Phone No.:

I Hearby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed above.

Driver Signature

C-138

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is:

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. (Gandy Marley, Inc. accepts certifications on a per month only basis.)

☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261-24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached:

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis

Other (Provide Description Below)

☐ Emergency Non-Oilfield: Emergency non-hazardous, non-oilfied waste that has been ordered by the Department of Public Safety. (The order, documentation of non-hazardous waste determination, and a description of the waste must accompany this form.)

Name Signature

Kimberly Murphy

Name Signature

GML Inc.

NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST/DISPOSAL TICKET

Ticket Number
106388
09/19/24 10:51 AM

GENERATOR

Generator: CAMBRIAN MANAGEMENT
Generator Contact:
PO BOX 272
MIDLAND, TX 79702
Phone No.: (432)620-9181

Lease: CHEM STATE #1
Location: CHEM STATE #1
Job Contact: CHRIS GADDY
Phone Number: (432)620-9181
Email:

DISPOSAL FACILITY

Site Name/Permit No.: Commercial Landfarm (NM-711-1-0020)
P.O. Box 1658
Roswell, NM 88202
Office (575) 347-0434
Fax (575)347-0435

NORM Readings Taken: No
Reading > 50 micro roentgens: No
Pass the Paint Filter Test: No
Box Number:

WASTE MATERIAL

Material	Quantity	Cell
OCD EXEMPT SOILS	20.00 YDS	LF

TRANSPORTER

Name: EL PRIMO TRUCKING
Address:
Phone No.:

Driver Name:
Truck Number: 1
Phone No.:

I Hearby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed above.

Oscar A Morales

Driver Signature

C-138

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is:

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. (Gandy Marley, Inc. accepts certifications on a per month only basis.)

☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261-24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached:

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis

Other (Provide Description Below)

☐ Emergency Non-Oilfield: Emergency non-hazardous, non-oilfied waste that has been ordered by the Department of Public Safety. (The order, documentation of non-hazardous waste determination, and a description of the waste must accompany this form.)

Name | Signature

Kimberly Murphy | Kimberly Murphy

Name | Signature

GM Inc.

NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST/DISPOSAL TICKET

Ticket Number
106398
09/19/24 01:40 PM

GENERATOR

Generator: CAMBRIAN MANAGEMENT
Generator Contact:
PO BOX 272
MIDLAND, TX 79702
Phone No.: (432)620-9181

Lease: CHEM STATE #1
Location: CHEM STATE #1
Job Contact: CHRIS GADDY
Phone Number: (432)620-9181
Email:

DISPOSAL FACILITY

Site Name/Permit No.: Commercial Landfarm (NM-711-1-0020)
P.O. Box 1658
Roswell, NM 88202
Office (575) 347-0434
Fax (575)347-0435

NORM Readings Taken: No
Reading > 50 micro roentgens: No
Pass the Paint Filter Test: No
Box Number:

WASTE MATERIAL

Material	Quantity	Cell
OCD EXEMPT SOILS	20.00 YDS	LF

TRANSPORTER

Name: EL PRIMO TRUCKING
Address:
Phone No.:

Driver Name:
Truck Number: 1
Phone No.:

I Hearby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed above.

Oscar Arevalo

Driver Signature

C-138

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is:

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. (Gandy Marley, Inc. accepts certifications on a per month only basis.)

☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261-24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached:

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis

Other (Provide Description Below)

☐ Emergency Non-Oilfield: Emergency non-hazardous, non-oilfied waste that has been ordered by the Department of Public Safety. (The order, documentation of non-hazardous waste determination, and a description of the waste must accompany this form.)

Name | Signature

Kimberly Murphy

Kimberly Murphy | Kimberly Murphy

Name | Signature

GM inc.

NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST/DISPOSAL TICKET

Ticket Number
106420
09/19/24 04:36 PM

GENERATOR

Generator: CAMBRIAN MANAGEMENT
Generator Contact:
PO BOX 272
MIDLAND, TX 79702
Phone No.: (432)620-9181

Lease: CHEM STATE #1
Location: CHEM STATE #1
Job Contact: CHRIS GADDY
Phone Number: (432)620-9181
Email:

DISPOSAL FACILITY

Site Name/Permit No.: Commercial Landfarm (NM-711-1-0020)
P.O. Box 1658
Roswell, NM 88202
Office (575) 347-0434
Fax (575)347-0435

NORM Readings Taken: No
Reading > 50 micro roentgens: No
Pass the Paint Filter Test: No
Box Number:

WASTE MATERIAL

Material	Quantity	Cell
OCD EXEMPT SOILS	20.00 YDS	LF

TRANSPORTER

Name: EL PRIMO TRUCKING
Address:
Phone No.:

Driver Name:
Truck Number: 1
Phone No.:

I Hearby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed above.

Oscar Morales

Driver Signature

C-138

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is:

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. (Gandy Marley, Inc. accepts certifications on a per month only basis.)

☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261-24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached:

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis

Other (Provide Description Below)

☐ Emergency Non-Oilfield: Emergency non-hazardous, non-oilfied waste that has been ordered by the Department of Public Safety. (The order, documentation of non-hazardous waste determination, and a description of the waste must accompany this form.)

Name | Signature

Kimberly Murphy | Kimberly Murphy

Name | Signature

GM inc.

NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST / DISPOSAL TICKET

71819

GENERATOR

Generator Name Caulkins Oil

Address

City, State, Zip

Phone No.

Company Man

Location of Origin
Lease/Well Ocean State #1

Name & No.

County

API No.

Rig Name & No.

AFE/PO No.

TRUCK TIME STAMP

IN: 755 AM OUT:

DISPOSAL FACILITY

RECEIVING AREA

Name/No. Landfill

Site Name / Permit No. **Commercial Landfill (NM-01-0019)**

Address **P.O. Box 1658 Roswell, NM 88202**

Phone No. **575-347-0434**

NORM Readings Taken? (Circle One) YES NO

If YES, was reading > 50 micro roentgens? (Circle One) YES NO

Pass the Paint Filter Test? (Circle One) YES NO

TRANSPORTER

Transporter's Name ELP

Address

Phone No.

Print Name

Truck No. 1

Bin No.

Phone No.

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE

DRIVER'S SIGNATURE

4/19/24

DELIVERY DATE

DRIVER'S SIGNATURE

Exempt E&P Waste/Service Identification and Amount (Place volume next to waste type in barrels or cubic yards)

Oil Based Muds		Completion Fluid/Flowback		OTHER EXEMPT WASTE	
Oil Based Cuttings		Produced Water (Non-Injectable)			
Water Based Muds		Gathering Line Water/Waste			
Water Based Cuttings		Cement Water			
Produced Formation Solids		Truck Washout /Jet Out		OTHER NON-EXEMPT WASTE	
Tank Bottoms		Trash & Debris			
E&P Contaminated Soil	✓				
Gas Plant Waste					

WASTE GENERATION PROCESS: ❑ Drilling ❑ Completion ❑ Production ❑ Gathering Lines

Non-Exempt E&P Waste/Service Identification and Amount

(All non-exempt E&P waste must be analyzed and be below the threshold limits for toxicity (TCLP), ignition, corrosiveness, and reactivity.)

Non-Exempt Other:

*Please select from Non-Exempt Waste List on back

QUANTITY: B - Barrels L - Liquid 20 Y - Yards E - Each

C-138

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is (Check the appropriate classification)

❑ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. (Gandy Marley, Inc. accepts certifications on a per month only basis.)

❑ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided.)

❑ MSDS Information ❑ RCRA Hazardous Waste Analysis ❑ Other (Provide Description Below)

❑ EMERGENCY NON-OILFIELD: Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety. (The order, documentation of non-hazardous waste determination and a description of the waste must accompany this form.)

(PRINT) AUTHORIZED AGENTS SIGNATURE

DATE

SIGNATURE

GM Inc.

NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST/DISPOSAL TICKET

Ticket Number
106442
09/20/24 10:51 AM

GENERATOR

Generator: CAMBRIAN MANAGEMENT
Generator Contact:
PO BOX 272
MIDLAND, TX 79702
Phone No.: (432)620-9181

Lease: CHEM STATE #1
Location: CHEM STATE #1
Job Contact: CHRIS GADDY
Phone Number: (432)620-9181
Email:

DISPOSAL FACILITY

Site Name/Permit No.: Commercial Landfarm (NM-711-1-0020)
P.O. Box 1658
Roswell, NM 88202
Office (575) 347-0434
Fax (575)347-0435

NORM Readings Taken: No
Reading > 50 micro roentgens: No
Pass the Paint Filter Test: No
Box Number:

WASTE MATERIAL

Material	Quantity	Cell
OCD EXEMPT SOILS	20.00 YDS	LF

TRANSPORTER

Name: EL PRIMO TRUCKING
Address:
Phone No.:

Driver Name:
Truck Number: 1
Phone No.:

I Hearby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed above.

Oscar A Morales

Driver Signature

C-138

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is:

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. (Gandy Marley, Inc. accepts certifications on a per month only basis.)

☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261-24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached:

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis

Other (Provide Description Below)

☐ Emergency Non-Oilfield: Emergency non-hazardous, non-oilfied waste that has been ordered by the Department of Public Safety. (The order, documentation of non-hazardous waste determination, and a description of the waste must accompany this form.)

Name | Signature

Kimberly Murphy | Kimberly Murphy

Name | Signature

GM inc.

NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST/DISPOSAL TICKET

Ticket Number
106462
09/20/24 01:33 PM

GENERATOR

Generator: CAMBRIAN MANAGEMENT
Generator Contact:
PO BOX 272
MIDLAND, TX 79702
Phone No.: (432)620-9181

Lease: CHEM STATE #1
Location: CHEM STATE #1
Job Contact: CHRIS GADDY
Phone Number: (432)620-9181
Email:

DISPOSAL FACILITY

Site Name/Permit No.: Commercial Landfarm (NM-711-1-0020)
P.O. Box 1658
Roswell, NM 88202
Office (575) 347-0434
Fax (575)347-0435

NORM Readings Taken: No
Reading > 50 micro roentgens: No
Pass the Paint Filter Test: No
Box Number:

WASTE MATERIAL

Material	Quantity	Cell
OCD EXEMPT SOILS	20.00 YDS	LF

TRANSPORTER

Name: EL PRIMO TRUCKING
Address:
Phone No.:

Driver Name:
Truck Number: 1
Phone No.:

I Hearby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed above.

Oscar Morales

Driver Signature

C-138

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is:

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. (Gandy Marley, Inc. accepts certifications on a per month only basis.)

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☐ MSDS Information ☐ RCRA Hazardous Waste Analysis

Other (Provide Description Below)

☐ Emergency Non-Oilfield: Emergency non-hazardous, non-oilfied waste that has been ordered by the Department of Public Safety. (The order, documentation of non-hazardous waste determination, and a description of the waste must accompany this form.)

Name Signature

Kimberly Murphy Kimberly Murphy

Name Signature

GM inc.

NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST / DISPOSAL TICKET

71850

GENERATOR

Generator Name ______

Address ______

City, State, Zip ______

Phone No. ______

Company Man ______

Location of Origin Lease/Well ______

Name & No. ______

County ______

API No. ______

Rig Name & No. ______

AFE/PO No. ______

TRUCK TIME STAMP

IN: ______ OUT: ______

DISPOSAL FACILITY

RECEIVING AREA

Name/No. Landfill

Site Name / Permit No. Commercial Landfill (NM-01-0019)

Phone No. 575-347-0434

Address P.O. Box 1658 Roswell, NM 88202

NORM Readings Taken? (Circle One) YES NO

If YES, was reading > 50 micro roentgens? (Circle One) YES NO

Pass the Paint Filter Test? (Circle One) YES NO

TRANSPORTER

Transporter's Name ______

Address ______

Phone No. ______

Print Name ______

Truck No. ______

Bin No. ______

Phone No. ______

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE ______ DRIVER'S SIGNATURE ______ DELIVERY DATE ______ DRIVER'S SIGNATURE ______

Exempt E&P Waste/Service Identification and Amount (Place volume next to waste type in barrels or cubic yards)

Oil Based Muds	______	Completion Fluid/Flowback	______	OTHER EXEMPT WASTE
Oil Based Cuttings	______	Produced Water (Non-Injectable)	______	______
Water Based Muds	______	Gathering Line Water/Waste	______	______
Water Based Cuttings	______	Cement Water	______	______
Produced Formation Solids	______	Truck Washout /Jet Out	______	OTHER NON-EXEMPT WASTE
Tank Bottoms	______	Trash & Debris	______	______
E&P Contaminated Soil	______			______
Gas Plant Waste	______			______

WASTE GENERATION PROCESS: ☐ Drilling ☐ Completion ☐ Production ☐ Gathering Lines

Non-Exempt E&P Waste/Service Identification and Amount

(All non-exempt E&P waste must be analyzed and be below the threshold limits for toxicity (TCLP), ignition, corrosiveness, and reactivity.)

Non-Exempt Other: ______ *Please select from Non-Exempt Waste List on back

QUANTITY: ______ B - Barrels ______ L - Liquid ______ Y - Yards ______ E - Each

C-138

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is (Check the appropriate classification)

☐ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. (Gandy Marley, Inc. accepts certifications on a per month only basis.)

☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided.)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)

☐ EMERGENCY NON-OILFIELD: Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety. (The order, documentation of non-hazardous waste determination and a description of the waste must accompany this form.)

(PRINT) AUTHORIZED AGENTS SIGNATURE ______ DATE ______ SIGNATURE ______

NAME (PRINT) ______ DATE ______ GMI TITLE ______ SIGNATURE ______

SUPERIOR PRINTING SERVICE, INC.

GM inc.

NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST / DISPOSAL TICKET

71825

GENERATOR

Generator Name Cambrian

Address

City, State, Zip

Phone No.

Company Man

Location of Origin
Lease/Well Chevron State #1

Name & No.

County

API No.

Rig Name & No.

AFE/PO No.

TRUCK TIME STAMP
IN: 1550 OUT:

DISPOSAL FACILITY

RECEIVING AREA
Name/No. Landfill

Site Name / Permit No. Commercial Landfill (NM-01-0019)

Address P.O. Box 1658 Roswell, NM 88202

Phone No. 575-347-0434

NORM Readings Taken? (Circle One) YES NO

If YES, was reading > 50 micro roentgens? (Circle One) YES NO

Pass the Paint Filter Test? (Circle One) YES NO

TRANSPORTER

Transporter's Name EL Perro

Address

Phone No.

Print Name

Truck No. 1

Bin No.

Phone No.

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE 9/24/24 DRIVER'S SIGNATURE

DELIVERY DATE DRIVER'S SIGNATURE

Exempt E&P Waste/Service Identification and Amount (Place volume next to waste type in barrels or cubic yards)

Oil Based Muds		Completion Fluid/Flowback		OTHER EXEMPT WASTE	
Oil Based Cuttings		Produced Water (Non-Injectable)			
Water Based Muds		Gathering Line Water/Waste			
Water Based Cuttings		Cement Water			
Produced Formation Solids		Truck Washout /Jet Out		OTHER NON-EXEMPT WASTE	
Tank Bottoms		Trash & Debris			
E&P Contaminated Soil					
Gas Plant Waste					

WASTE GENERATION PROCESS: ❑ Drilling ❑ Completion ❑ Production ❑ Gathering Lines

Non-Exempt E&P Waste/Service Identification and Amount

(All non-exempt E&P waste must be analyzed and be below the threshold limits for toxicity (TCLP), ignition, corrosiveness, and reactivity.)

Non-Exempt Other: *Please select from Non-Exempt Waste List on back

QUANTITY: ____ B - Barrels ____ L - Liquid 20 Y - Yards ____ E - Each

C-138

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is (Check the appropriate classification)

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❑ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided.)

❑ MSDS Information ❑ RCRA Hazardous Waste Analysis ❑ Other (Provide Description Below)

❑ EMERGENCY NON-OILFIELD: Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety. (The order, documentation of non-hazardous waste determination and a description of the waste must accompany this form.)

(PRINT) AUTHORIZED AGENTS SIGNATURE DATE SIGNATURE

GML Inc.

NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST/DISPOSAL TICKET

Ticket Number
106553
09/24/24 10:19 AM

GENERATOR

Generator: CAMBRIAN MANAGEMENT
Generator Contact:
PO BOX 272
MIDLAND, TX 79702
Phone No.: (432)620-9181

Lease: CHEM STATE #1
Location: CHEM STATE #1
Job Contact: CHRIS GADDY
Phone Number: (432)620-9181
Email:

DISPOSAL FACILITY

Site Name/Permit No.: Commercial Landfarm (NM-711-1-0020)
P.O. Box 1658
Roswell, NM 88202
Office (575) 347-0434
Fax (575)347-0435

NORM Readings Taken: No
Reading > 50 micro roentgens: No
Pass the Paint Filter Test: No
Box Number:

WASTE MATERIAL

Material	Quantity	Cell
OCD EXEMPT SOILS	20.00 YDS	LF

TRANSPORTER

Name: EL PRIMO TRUCKING
Address:
Phone No.:

Driver Name:
Truck Number: 1
Phone No.:

I Hearby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed above.

Oscar Morales

Driver Signature

C-138

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is:

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☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261-24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached:

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis

Other (Provide Description Below)

☐ Emergency Non-Oilfield: Emergency non-hazardous, non-oilfied waste that has been ordered by the Department of Public Safety. (The order, documentation of non-hazardous waste determination, and a description of the waste must accompany this form.)

Name Signature

Kimberly Murphy Kimberly Murphy

Name Signature

GML inc.

NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST/DISPOSAL TICKET

Ticket Number
106582
09/24/24 02:34 PM

GENERATOR

Generator: CAMBRIAN MANAGEMENT
Generator Contact:
PO BOX 272
MIDLAND, TX 79702
Phone No.: (432)620-9181

Lease: CHEM STATE #1
Location: CHEM STATE #1
Job Contact: CHRIS GADDY
Phone Number: (432)620-9181
Email:

DISPOSAL FACILITY

Site Name/Permit No.: Commercial Landfarm (NM-711-1-0020)
P.O. Box 1658
Roswell, NM 88202
Office (575) 347-0434
Fax (575)347-0435

NORM Readings Taken: No
Reading > 50 micro roentgens: No
Pass the Paint Filter Test: No
Box Number:

WASTE MATERIAL

Material	Quantity	Cell
OCD EXEMPT SOILS	20.00 YDS	LF

TRANSPORTER

Name: EL PRIMO TRUCKING
Address:
Phone No.:

Driver Name:
Truck Number: 01
Phone No.:

I Hearby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed above.

Oscar Morales

Driver Signature

C-138

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is:

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☐ MSDS Information ☐ RCRA Hazardous Waste Analysis

Other (Provide Description Below)

☐ Emergency Non-Oilfield: Emergency non-hazardous, non-oilfied waste that has been ordered by the Department of Public Safety. (The order, documentation of non-hazardous waste determination, and a description of the waste must accompany this form.)

Name | Signature

Kimberly Murphy | Kimberly Murphy

Name | Signature

GM inc.

NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST / DISPOSAL TICKET

71876

GENERATOR

Generator Name Cambrian Man[illegible]
Address
City, State, Zip
Phone No.
Company Man

Location of Origin Lease/Well [illegible] State [illegible]
Name & No.
County
API No.
Rig Name & No.
AFE/PO No.

TRUCK TIME STAMP
IN: 7 [illegible] OUT:

DISPOSAL FACILITY

RECEIVING AREA
Name/No. **Landfill**

Site Name / Permit No. **Commercial Landfill (NM-01-0019)**
Address **P.O. Box 1658 Roswell, NM 88202**
Phone No. **575-347-0434**

NORM Readings Taken? (Circle One) YES NO
Pass the Paint Filter Test? (Circle One) YES NO
If YES, was reading > 50 micro roentgens? (Circle One) YES NO

TRANSPORTER

Transporter's Name [illegible]
Address
Phone No.

Print Name
Truck No.
Bin No.
Phone No.

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE ____ DRIVER'S SIGNATURE ____ DELIVERY DATE 9/24/24 DRIVER'S SIGNATURE [signature]

Exempt E&P Waste/Service Identification and Amount (Place volume next to waste type in barrels or cubic yards)

Oil Based Muds		Completion Fluid/Flowback		OTHER EXEMPT WASTE
Oil Based Cuttings		Produced Water (Non-Injectable)		
Water Based Muds		Gathering Line Water/Waste		
Water Based Cuttings		Cement Water		
Produced Formation Solids		Truck Washout /Jet Out		OTHER NON-EXEMPT WASTE
Tank Bottoms		Trash & Debris		
E&P Contaminated Soil	✓			
Gas Plant Waste				

WASTE GENERATION PROCESS: ❑ Drilling ❑ Completion ❑ Production ❑ Gathering Lines

Non-Exempt E&P Waste/Service Identification and Amount
(All non-exempt E&P waste must be analyzed and be below the threshold limits for toxicity (TCLP), ignition, corrosiveness, and reactivity.)

Non-Exempt Other: ____ *Please select from Non-Exempt Waste List on back

QUANTITY: ____ B - Barrels ____ L - Liquid 20 Y - Yards ____ E - Each

C-138

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is (Check the appropriate classification)

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❑ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided.)

❑ MSDS Information ❑ RCRA Hazardous Waste Analysis ❑ Other (Provide Description Below)

❑ EMERGENCY NON-OILFIELD: Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety. (The order, documentation of non-hazardous waste determination and a description of the waste must accompany this form.)

(PRINT) AUTHORIZED AGENTS SIGNATURE ____ DATE ____ SIGNATURE ____

[signature] 9/24/24 **GMI** [signature]

NAME (PRINT) DATE TITLE SIGNATURE

SUPERIOR PRINTING SERVICE, INC.

GM inc.

NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST / DISPOSAL TICKET

71859

GENERATOR

Generator Name Cambrian Management

Address

City, State, Zip

Phone No.

Company Man

Location of Origin
Lease/Well Chem Sta. #1

Name & No.

County

API No.

Rig Name & No.

AFE/PO No.

TRUCK TIME STAMP

IN: 2:35 pm OUT:

DISPOSAL FACILITY

RECEIVING AREA

Name/No. Landfill

Site Name / Permit No. **Commercial Landfill (NM-01-0019)**

Address **P.O. Box 1658 Roswell, NM 88202**

Phone No. **575-347-0434**

NORM Readings Taken? (Circle One) YES NO

If YES, was reading > 50 micro roentgens? (Circle One) YES NO

Pass the Paint Filter Test? (Circle One) YES NO

TRANSPORTER

Transporter's Name El Primo Trucking

Address

Phone No.

Print Name

Truck No. 1

Bin No.

Phone No.

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE

DRIVER'S SIGNATURE

9-21-24

DELIVERY DATE

DRIVER'S SIGNATURE

Exempt E&P Waste/Service Identification and Amount (Place volume next to waste type in barrels or cubic yards)

Oil Based Muds		Completion Fluid/Flowback		OTHER EXEMPT WASTE	
Oil Based Cuttings		Produced Water (Non-Injectable)			
Water Based Muds		Gathering Line Water/Waste			
Water Based Cuttings		Cement Water			
Produced Formation Solids		Truck Washout /Jet Out		OTHER NON-EXEMPT WASTE	
Tank Bottoms		Trash & Debris			
E&P Contaminated Soil					
Gas Plant Waste					

WASTE GENERATION PROCESS: ❑ Drilling ❑ Completion ❑ Production ❑ Gathering Lines

Non-Exempt E&P Waste/Service Identification and Amount

(All non-exempt E&P waste must be analyzed and be below the threshold limits for toxicity (TCLP), ignition, corrosiveness, and reactivity.)

Non-Exempt Other:

*Please select from Non-Exempt Waste List on back

QUANTITY: B - Barrels L - Liquid 2 Y - Yards E - Each

C-138

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is (Check the appropriate classification)

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❑ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided.)

❑ MSDS Information ❑ RCRA Hazardous Waste Analysis ❑ Other (Provide Description Below)

❑ EMERGENCY NON-OILFIELD: Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety. (The order, documentation of non-hazardous waste determination and a description of the waste must accompany this form.)

(PRINT) AUTHORIZED AGENTS SIGNATURE

DATE

SIGNATURE

GMI

GM inc.

NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST / DISPOSAL TICKET

71638

GENERATOR

Generator Name Cimarron MANAGEMENT

Address

City, State, Zip

Phone No.

Company Man

Location of Origin
Lease/Well Chase State #1

Name & No.

County

API No.

Rig Name & No.

AFE/PO No.

TRUCK TIME STAMP
IN: 9:36 AM OUT:

DISPOSAL FACILITY

RECEIVING AREA
Name/No. Landfill

Site Name / Permit No. **Commercial Landfill (NM-01-0019)**

Address **P.O. Box 1658 Roswell, NM 88202**

Phone No. **575-347-0434**

NORM Readings Taken? (Circle One) YES NO

If YES, was reading > 50 micro roentgens? (Circle One) YES NO

Pass the Paint Filter Test? (Circle One) YES NO

TRANSPORTER

Transporter's Name SL Rivas Trucking

Address

Phone No.

Print Name Oscar A

Truck No. 1

Bin No.

Phone No.

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE | DRIVER'S SIGNATURE | 9-21-24 DELIVERY DATE | Oscar A Morales DRIVER'S SIGNATURE

Exempt E&P Waste/Service Identification and Amount (Place volume next to waste type in barrels or cubic yards)

Oil Based Muds		Completion Fluid/Flowback		OTHER EXEMPT WASTE	
Oil Based Cuttings		Produced Water (Non-Injectable)			
Water Based Muds		Gathering Line Water/Waste			
Water Based Cuttings		Cement Water			
Produced Formation Solids		Truck Washout /Jet Out		OTHER NON-EXEMPT WASTE	
Tank Bottoms		Trash & Debris			
E&P Contaminated Soil					
Gas Plant Waste					

WASTE GENERATION PROCESS: ❑ Drilling ❑ Completion ❑ Production ❑ Gathering Lines

Non-Exempt E&P Waste/Service Identification and Amount

(All non-exempt E&P waste must be analyzed and be below the threshold limits for toxicity (TCLP), ignition, corrosiveness, and reactivity.)

Non-Exempt Other: *Please select from Non-Exempt Waste List on back

QUANTITY: B - Barrels L - Liquid 20 Y - Yards E - Each

C-138

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is (Check the appropriate classification)

❑ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. (Gandy Marley, Inc. accepts certifications on a per month only basis.)

❑ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided.)

❑ MSDS Information ❑ RCRA Hazardous Waste Analysis ❑ Other (Provide Description Below)

❑ EMERGENCY NON-OILFIELD: Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety. (The order, documentation of non-hazardous waste determination and a description of the waste must accompany this form.)

(PRINT) AUTHORIZED AGENTS SIGNATURE | DATE | SIGNATURE

GM inc.

NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST / DISPOSAL TICKET

71845

GENERATOR

Generator Name _____

Address _____

City, State, Zip _____

Phone No. _____

Company Man _____

Location of Origin
Lease/Well _____

Name & No. _____

County _____

API No. _____

Rig Name & No. _____

AFE/PO No. _____

TRUCK TIME STAMP

IN: _____ OUT: _____

DISPOSAL FACILITY

RECEIVING AREA

Name/No. Landfill

Site Name / Permit No. **Commercial Landfill (NM-01-0019)**

Phone No. **575-347-0434**

Address **P.O. Box 1658 Roswell, NM 88202**

NORM Readings Taken? (Circle One) YES NO

If YES, was reading > 50 micro roentgens? (Circle One) YES NO

Pass the Paint Filter Test? (Circle One) YES NO

TRANSPORTER

Transporter's Name _____

Address _____

Phone No. _____

Print Name _____

Truck No. _____

Bin No. _____

Phone No. _____

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

_____ SHIPMENT DATE _____ DRIVER'S SIGNATURE

_____ DELIVERY DATE _____ DRIVER'S SIGNATURE

Exempt E&P Waste/Service Identification and Amount (Place volume next to waste type in barrels or cubic yards)

Oil Based Muds		Completion Fluid/Flowback		OTHER EXEMPT WASTE	
Oil Based Cuttings		Produced Water (Non-Injectable)			
Water Based Muds		Gathering Line Water/Waste			
Water Based Cuttings		Cement Water			
Produced Formation Solids		Truck Washout /Jet Out		OTHER NON-EXEMPT WASTE	
Tank Bottoms		Trash & Debris			
E&P Contaminated Soil	✓				
Gas Plant Waste					

WASTE GENERATION PROCESS: ❑ Drilling ❑ Completion ❑ Production ❑ Gathering Lines

Non-Exempt E&P Waste/Service Identification and Amount

(All non-exempt E&P waste must be analyzed and be below the threshold limits for toxicity (TCLP), ignition, corrosiveness, and reactivity.)

Non-Exempt Other: _____ *Please select from Non-Exempt Waste List on back

QUANTITY: _____ B - Barrels _____ L - Liquid 20 Y - Yards _____ E - Each

C-138

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is (Check the appropriate classification)

❑ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. (Gandy Marley, Inc. accepts certifications on a per month only basis.)

❑ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided.)

❑ MSDS Information ❑ RCRA Hazardous Waste Analysis ❑ Other (Provide Description Below)

❑ EMERGENCY NON-OILFIELD: Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety. (The order, documentation of non-hazardous waste determination and a description of the waste must accompany this form.)

_____ (PRINT) AUTHORIZED AGENTS SIGNATURE

4-21-24 DATE

_____ SIGNATURE

_____ NAME (PRINT)

_____ DATE

GMI TITLE

_____ SIGNATURE

SUPERIOR PRINTING SERVICE, INC.

GML inc.

NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST/DISPOSAL TICKET

Ticket Number
107360
10/14/24 04:20 PM

GENERATOR

Generator: CAMBRIAN MANAGEMENT
Generator Contact:
PO BOX 272
MIDLAND, TX 79702
Phone No.: (432)620-9181

Lease: CHEM STATE #1
Location: CHEM STATE #1
Job Contact: CHRIS GADDY
Phone Number: (432)620-9181
Email:

DISPOSAL FACILITY

Site Name/Permit No.: Commercial Landfarm (NM-711-1-0020)
P.O. Box 1658
Roswell, NM 88202
Office (575) 347-0434
Fax (575)347-0435

NORM Readings Taken: No
Reading > 50 micro roentgens: No
Pass the Paint Filter Test: No
Box Number:

WASTE MATERIAL

Material	Quantity	Cell
OCD EXEMPT SOILS	20.00 YDS	LF

TRANSPORTER

Name: QUEZADA
Address:
Phone No.:

Driver Name:
Truck Number: 07
Phone No.:

I Hearby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed above.

JAIME QUEZADA

Driver Signature

C-138

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is:

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. (Gandy Marley, Inc. accepts certifications on a per month only basis.)

☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261-24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached:

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis

Other (Provide Description Below)

☐ Emergency Non-Oilfield: Emergency non-hazardous, non-oilfied waste that has been ordered by the Department of Public Safety. (The order, documentation of non-hazardous waste determination, and a description of the waste must accompany this form.)

Name | Signature

Kimberly Murphy | Kimberly Murphy

Name | Signature

GM inc.

NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST/DISPOSAL TICKET

Ticket Number
107346
10/14/24 01:33 PM

GENERATOR

Generator: CAMBRIAN MANAGEMENT
Generator Contact:
PO BOX 272
MIDLAND, TX 79702
Phone No.: (432)620-9181

Lease: CHEM STATE #1
Location: CHEM STATE #1
Job Contact: CHRIS GADDY
Phone Number: (432)620-9181
Email:

DISPOSAL FACILITY

Site Name/Permit No.: Commercial Landfarm (NM-711-1-0020)
P.O. Box 1658
Roswell, NM 88202
Office (575) 347-0434
Fax (575)347-0435

NORM Readings Taken: No
Reading > 50 micro roentgens: No
Pass the Paint Filter Test: No
Box Number:

WASTE MATERIAL

Material	Quantity	Cell
OCD EXEMPT SOILS	20.00 YDS	LF

TRANSPORTER

Name: QUEZADA
Address:
Phone No.:

Driver Name:
Truck Number: 07
Phone No.:

I Hearby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed above.

JAIME QUEZADA

Driver Signature

C-138

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is:

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. (Gandy Marley, Inc. accepts certifications on a per month only basis.)

☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261-24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached:

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis

Other (Provide Description Below)

☐ Emergency Non-Oilfield: Emergency non-hazardous, non-oilfied waste that has been ordered by the Department of Public Safety. (The order, documentation of non-hazardous waste determination, and a description of the waste must accompany this form.)

Name | Signature

Kimberly Murphy | Kimberly Murphy

Name | Signature

GM inc.

NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST/DISPOSAL TICKET

Ticket Number
107359
10/14/24 04:19 PM

GENERATOR

Generator: CAMBRIAN MANAGEMENT
Generator Contact:
PO BOX 272
MIDLAND, TX 79702
Phone No.: (432)620-9181

Lease: CHEM STATE #1
Location: CHEM STATE #1
Job Contact: CHRIS GADDY
Phone Number: (432)620-9181
Email:

DISPOSAL FACILITY

Site Name/Permit No.: Commercial Landfarm (NM-711-1-0020)
P.O. Box 1658
Roswell, NM 88202
Office (575) 347-0434
Fax (575)347-0435

NORM Readings Taken: No
Reading > 50 micro roentgens: No
Pass the Paint Filter Test: No
Box Number:

WASTE MATERIAL

Material	Quantity	Cell
OCD EXEMPT SOILS	20.00 YDS	LF

TRANSPORTER

Name: QUEZADA
Address:
Phone No.:

Driver Name:
Truck Number: 09
Phone No.:

I Hearby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed above.

JAIME QUEZADA JR

Driver Signature

C-138

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is:

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. (Gandy Marley, Inc. accepts certifications on a per month only basis.)

☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261-24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached:

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis

Other (Provide Description Below)

☐ Emergency Non-Oilfield: Emergency non-hazardous, non-oilfied waste that has been ordered by the Department of Public Safety. (The order, documentation of non-hazardous waste determination, and a description of the waste must accompany this form.)

Name Signature

Kimberly Murphy Kimberly Murphy

Name Signature

GM inc.

NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST/DISPOSAL TICKET

Ticket Number
107381
10/15/24 12:53 PM

GENERATOR

Generator: CAMBRIAN MANAGEMENT
Generator Contact:
PO BOX 272
MIDLAND, TX 79702
Phone No.: (432)620-9181

Lease: CHEM STATE #1
Location: CHEM STATE #1
Job Contact: CHRIS GADDY
Phone Number: (432)620-9181
Email:

DISPOSAL FACILITY

Site Name/Permit No.: Commercial Landfarm (NM-711-1-0020)
P.O. Box 1658
Roswell, NM 88202
Office (575) 347-0434
Fax (575)347-0435

NORM Readings Taken: No
Reading > 50 micro roentgens: No
Pass the Paint Filter Test: No
Box Number:

WASTE MATERIAL

Material	Quantity	Cell
OCD EXEMPT SOILS	20.00 YDS	LF

TRANSPORTER

Name: QUEZADA
Address:
Phone No.:

Driver Name:
Truck Number: 07
Phone No.:

I Hearby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed above.

Jaime Quezada

Driver Signature

C-138

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is:

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. (Gandy Marley, Inc. accepts certifications on a per month only basis.)

☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261-24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached:

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis

Other (Provide Description Below)

☐ Emergency Non-Oilfield: Emergency non-hazardous, non-oilfied waste that has been ordered by the Department of Public Safety. (The order, documentation of non-hazardous waste determination, and a description of the waste must accompany this form.)

Name Signature

Kimberly Murphy Kimberly Murphy

Name Signature

GM inc.

NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST/DISPOSAL TICKET

Ticket Number
107382
10/15/24 12:54 PM

GENERATOR

Generator: CAMBRIAN MANAGEMENT
Generator Contact:
PO BOX 272
MIDLAND, TX 79702
Phone No.: (432)620-9181

Lease: CHEM STATE #1
Location: CHEM STATE #1
Job Contact: CHRIS GADDY
Phone Number: (432)620-9181
Email:

DISPOSAL FACILITY

Site Name/Permit No.: Commercial Landfarm (NM-711-1-0020)
P.O. Box 1658
Roswell, NM 88202
Office (575) 347-0434
Fax (575)347-0435

NORM Readings Taken: No
Reading > 50 micro roentgens: No
Pass the Paint Filter Test: No
Box Number:

WASTE MATERIAL

Material	Quantity	Cell
OCD EXEMPT SOILS	20.00 YDS	LF

TRANSPORTER

Name: QUEZADA
Address:
Phone No.:

Driver Name:
Truck Number: 09
Phone No.:

I Hearby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed above.

JAIME QUEZADA JR

Driver Signature

C-138

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is:

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. (Gandy Marley, Inc. accepts certifications on a per month only basis.)

☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261-24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached:

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis

Other (Provide Description Below)

☐ Emergency Non-Oilfield: Emergency non-hazardous, non-oilfied waste that has been ordered by the Department of Public Safety. (The order, documentation of non-hazardous waste determination, and a description of the waste must accompany this form.)

Name | Signature

Kimberly Murphy | Kimberly Murphy

Name | Signature

GM inc.

NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST/DISPOSAL TICKET

Ticket Number
107372
10/15/24 09:47 AM

GENERATOR

Generator: CAMBRIAN MANAGEMENT
Generator Contact:
PO BOX 272
MIDLAND, TX 79702
Phone No.: (432)620-9181

Lease: CHEM STATE #1
Location: CHEM STATE #1
Job Contact: CHRIS GADDY
Phone Number: (432)620-9181
Email:

DISPOSAL FACILITY

Site Name/Permit No.: Commercial Landfarm (NM-711-1-0020)
P.O. Box 1658
Roswell, NM 88202
Office (575) 347-0434
Fax (575)347-0435

NORM Readings Taken: No
Reading > 50 micro roentgens: No
Pass the Paint Filter Test: No
Box Number:

WASTE MATERIAL

Material	Quantity	Cell
OCD EXEMPT SOILS	20.00 YDS	LF

TRANSPORTER

Name: QUEZADA
Address:
Phone No.:

Driver Name:
Truck Number: 07
Phone No.:

I Hearby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed above.

JAIME QUEZADA

Driver Signature

C-138

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is:

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. (Gandy Marley, Inc. accepts certifications on a per month only basis.)

☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261-24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached:

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis

Other (Provide Description Below)

☐ Emergency Non-Oilfield: Emergency non-hazardous, non-oilfied waste that has been ordered by the Department of Public Safety. (The order, documentation of non-hazardous waste determination, and a description of the waste must accompany this form.)

Name | Signature

Kimberly Murphy | Kimberly Murphy

Name | Signature

GMI inc.

NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST/DISPOSAL TICKET

Ticket Number
107397
10/15/24 04:10 PM

GENERATOR

Generator: CAMBRIAN MANAGEMENT
Generator Contact:
PO BOX 272
MIDLAND, TX 79702
Phone No.: (432)620-9181

Lease: CHEM STATE #1
Location: CHEM STATE #1
Job Contact: CHRIS GADDY
Phone Number: (432)620-9181
Email:

DISPOSAL FACILITY

Site Name/Permit No.: Commercial Landfill (NM-01-0019)
P.O. Box 1658
Roswell, NM 88202
Office (575) 347-0434
Fax (575)347-0435

NORM Readings Taken: No
Reading > 50 micro roentgens: No
Pass the Paint Filter Test: No
Box Number:

WASTE MATERIAL

Material	Quantity	Cell
OCD EXEMPT SOILS	20.00 YDS	LF

TRANSPORTER

Name: QUEZADA
Address:
Phone No.:

Driver Name:
Truck Number: 09
Phone No.:

I Hearby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed above.

Jaime Quezada

Driver Signature

C-138

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is:

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. (Gandy Marley, Inc. accepts certifications on a per month only basis.)

☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261-24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached:

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis

Other (Provide Description Below)

☐ Emergency Non-Oilfield: Emergency non-hazardous, non-oilfied waste that has been ordered by the Department of Public Safety. (The order, documentation of non-hazardous waste determination, and a description of the waste must accompany this form.)

Name | Signature

Kimberly Murphy | Kimberly Murphy

Name | Signature

GM Inc.

NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST/DISPOSAL TICKET

Ticket Number
107373
10/15/24 09:47 AM

GENERATOR

Generator: CAMBRIAN MANAGEMENT
Generator Contact:
PO BOX 272
MIDLAND, TX 79702
Phone No.: (432)620-9181

Lease: CHEM STATE #1
Location: CHEM STATE #1
Job Contact: CHRIS GADDY
Phone Number: (432)620-9181
Email:

DISPOSAL FACILITY

Site Name/Permit No.: Commercial Landfarm (NM-711-1-0020)
P.O. Box 1658
Roswell, NM 88202
Office (575) 347-0434
Fax (575)347-0435

NORM Readings Taken: No
Reading > 50 micro roentgens: No
Pass the Paint Filter Test: No
Box Number:

WASTE MATERIAL

Material	Quantity	Cell
OCD EXEMPT SOILS	20.00 YDS	LF

TRANSPORTER

Name: QUEZADA
Address:
Phone No.:

Driver Name:
Truck Number: 09
Phone No.:

I Hearby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed above.

JAIME [illegible]

Driver Signature

C-138

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is:

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. (Gandy Marley, Inc. accepts certifications on a per month only basis.)

☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261-24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached:

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis

Other (Provide Description Below)

☐ Emergency Non-Oilfield: Emergency non-hazardous, non-oilfied waste that has been ordered by the Department of Public Safety. (The order, documentation of non-hazardous waste determination, and a description of the waste must accompany this form.)

Name | Signature

Kimberly Murphy | Kimberly Murphy

Name | Signature

GM inc.

NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST/DISPOSAL TICKET

Ticket Number
107467
10/17/24 01:13 PM

GENERATOR

Generator: CAMBRIAN MANAGEMENT
Generator Contact:
PO BOX 272
MIDLAND, TX 79702
Phone No.: (432)620-9181

Lease: CHEM STATE #1
Location: CHEM STATE #1
Job Contact: CHRIS GADDY
Phone Number: (432)620-9181
Email:

DISPOSAL FACILITY

Site Name/Permit No.: Commercial Landfill (NM-01-0019)
P.O. Box 1658
Roswell, NM 88202
Office (575) 347-0434
Fax (575)347-0435

NORM Readings Taken: No
Reading > 50 micro roentgens: No
Pass the Paint Filter Test: No
Box Number:

WASTE MATERIAL

Material	Quantity	Cell
OCD EXEMPT SOILS	20.00 YDS	LF

TRANSPORTER

Name: QUEZADA
Address:
Phone No.:

Driver Name:
Truck Number: 09
Phone No.:

I Hearby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed above.

JAIME QUEZADA JZ

Driver Signature

C-138

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is:

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☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261-24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached:

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis

Other (Provide Description Below)

☐ Emergency Non-Oilfield: Emergency non-hazardous, non-oilfied waste that has been ordered by the Department of Public Safety. (The order, documentation of non-hazardous waste determination, and a description of the waste must accompany this form.)

Name Signature

Kimberly Murphy Kimberly Murphy

Name Signature

GM inc.

NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST/DISPOSAL TICKET

Ticket Number
107449
10/17/24 09:47 AM

GENERATOR

Generator: CAMBRIAN MANAGEMENT
Generator Contact:
PO BOX 272
MIDLAND, TX 79702
Phone No.: (432)620-9181

Lease: CHEM STATE #1
Location: CHEM STATE #1
Job Contact: CHRIS GADDY
Phone Number: (432)620-9181
Email:

DISPOSAL FACILITY

Site Name/Permit No.: Commercial Landfill (NM-01-0019)
P.O. Box 1658
Roswell, NM 88202
Office (575) 347-0434
Fax (575)347-0435

NORM Readings Taken: No
Reading > 50 micro roentgens: No
Pass the Paint Filter Test: No
Box Number:

WASTE MATERIAL

Material	Quantity	Cell
OCD EXEMPT SOILS	20.00 YDS	LF

TRANSPORTER

Name: QUEZADA
Address:
Phone No.:

Driver Name:
Truck Number: 09
Phone No.:

I Hearby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed above.

Driver Signature

C-138

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is:

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. (Gandy Marley, Inc. accepts certifications on a per month only basis.)

☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261-24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached:

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis

Other (Provide Description Below)

☐ Emergency Non-Oilfield: Emergency non-hazardous, non-oilfied waste that has been ordered by the Department of Public Safety. (The order, documentation of non-hazardous waste determination, and a description of the waste must accompany this form.)

Name Signature

Kimberly Murphy

Name Signature

GM Inc.

NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST/DISPOSAL TICKET

Ticket Number
107448
10/17/24 09:46 AM

GENERATOR

Generator: CAMBRIAN MANAGEMENT
Generator Contact:
PO BOX 272
MIDLAND, TX 79702
Phone No.: (432)620-9181

Lease: CHEM STATE #1
Location: CHEM STATE #1
Job Contact: CHRIS GADDY
Phone Number: (432)620-9181
Email:

DISPOSAL FACILITY

Site Name/Permit No.: Commercial Landfill (NM-01-0019)
P.O. Box 1658
Roswell, NM 88202
Office (575) 347-0434
Fax (575)347-0435

NORM Readings Taken: No
Reading > 50 micro roentgens: No
Pass the Paint Filter Test: No
Box Number:

WASTE MATERIAL

Material	Quantity	Cell
OCD EXEMPT SOILS	20.00 YDS	LF

TRANSPORTER

Name: QUEZADA
Address:
Phone No.:

Driver Name:
Truck Number: 07
Phone No.:

I Hearby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed above.

JAIME QUEZADA

Driver Signature

C-138

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is:

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. (Gandy Marley, Inc. accepts certifications on a per month only basis.)

☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261-24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached:

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis

Other (Provide Description Below)

☐ Emergency Non-Oilfield: Emergency non-hazardous, non-oilfied waste that has been ordered by the Department of Public Safety. (The order, documentation of non-hazardous waste determination, and a description of the waste must accompany this form.)

Name Signature

Kimberly Murphy

Name Signature

GML inc.

NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST/DISPOSAL TICKET

Ticket Number
107466
10/17/24 01:12 PM

GENERATOR

Generator: CAMBRIAN MANAGEMENT
Generator Contact:
PO BOX 272
MIDLAND, TX 79702
Phone No.: (432)620-9181

Lease: CHEM STATE #1
Location: CHEM STATE #1
Job Contact: CHRIS GADDY
Phone Number: (432)620-9181
Email:

DISPOSAL FACILITY

Site Name/Permit No.: Commercial Landfill (NM-01-0019)
P.O. Box 1658
Roswell, NM 88202
Office (575) 347-0434
Fax (575)347-0435

NORM Readings Taken: No
Reading > 50 micro roentgens: No
Pass the Paint Filter Test: No
Box Number:

WASTE MATERIAL

Material	Quantity	Cell
OCD EXEMPT SOILS	20.00 YDS	LF

TRANSPORTER

Name: QUEZADA
Address:
Phone No.:

Driver Name:
Truck Number: 07
Phone No.:

I Hearby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed above.

JAIME QUEZADA

Driver Signature

C-138

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is:

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☐ MSDS Information ☐ RCRA Hazardous Waste Analysis

Other (Provide Description Below)

☐ Emergency Non-Oilfield: Emergency non-hazardous, non-oilfied waste that has been ordered by the Department of Public Safety. (The order, documentation of non-hazardous waste determination, and a description of the waste must accompany this form.)

Name | Signature

Kimberly Murphy | Kimberly Murphy

Name | Signature

GM Inc.

NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST/DISPOSAL TICKET

Ticket Number
110309
12/16/24 04:05 PM

GENERATOR

Generator: CAMBRIAN MANAGEMENT
Generator Contact:
PO BOX 272
MIDLAND, TX 79702
Phone No.: (432)620-9181

Lease: CHEM STATE #1
Location: CHEM STATE #1
Job Contact: CHRIS GADDY
Phone Number: (432)620-9181
Email:

DISPOSAL FACILITY

Site Name/Permit No.: Commercial Landfill (NM-01-0019)
P.O. Box 1658
Roswell, NM 88202
Office (575) 347-0434
Fax (575)347-0435

NORM Readings Taken: No
Reading > 50 micro roentgens: No
Pass the Paint Filter Test: No
Box Number:

WASTE MATERIAL

Material	Quantity	Cell
OCD EXEMPT SOILS	20.00 YDS	LF

TRANSPORTER

Name: PONDEROSA TRUCKING
Address:
Phone No.:

Driver Name:
Truck Number: 41
Phone No.:

I Hearby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed above.

Saul

Driver Signature

C-138

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is:

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. (Gandy Marley, Inc. accepts certifications on a per month only basis.)

☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261-24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached:

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis

Other (Provide Description Below)

☐ Emergency Non-Oilfield: Emergency non-hazardous, non-oilfied waste that has been ordered by the Department of Public Safety. (The order, documentation of non-hazardous waste determination, and a description of the waste must accompany this form.)

Name | Signature

KIMBERLY MURPHY | Kimberly Murphy

Name | Signature

GML Inc.

NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST/DISPOSAL TICKET

Ticket Number
110277
12/16/24 01:06 PM

GENERATOR

Generator: CAMBRIAN MANAGEMENT
Generator Contact:
PO BOX 272
MIDLAND, TX 79702
Phone No.: (432)620-9181

Lease: CHEM STATE #1
Location: CHEM STATE #1
Job Contact: CHRIS GADDY
Phone Number: (432)620-9181
Email:

DISPOSAL FACILITY

Site Name/Permit No.: Commercial Landfill (NM-01-0019)
P.O. Box 1658
Roswell, NM 88202
Office (575) 347-0434
Fax (575)347-0435

NORM Readings Taken: No
Reading > 50 micro roentgens: No
Pass the Paint Filter Test: No
Box Number:

WASTE MATERIAL

Material	Quantity	Cell
OCD EXEMPT SOILS	20.00 YDS	LF

TRANSPORTER

Name: PONDEROSA TRUCKING
Address:
Phone No.:

Driver Name:
Truck Number: 41
Phone No.:

I Hearby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed above.

Driver Signature

C-138

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is:

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. (Gandy Marley, Inc. accepts certifications on a per month only basis.)

☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261-24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached:

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis

Other (Provide Description Below)

☐ Emergency Non-Oilfield: Emergency non-hazardous, non-oilfied waste that has been ordered by the Department of Public Safety. (The order, documentation of non-hazardous waste determination, and a description of the waste must accompany this form.)

Name Signature

KIMBERLY MURPHY

Name Signature

GM Inc.

NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST/DISPOSAL TICKET

Ticket Number
110244
12/16/24 10:24 AM

GENERATOR

Generator: CAMBRIAN MANAGEMENT
Generator Contact:
PO BOX 272
MIDLAND, TX 79702
Phone No.: (432)620-9181

Lease: CHEM STATE #1
Location: CHEM STATE #1
Job Contact: CHRIS GADDY
Phone Number: (432)620-9181
Email:

DISPOSAL FACILITY

Site Name/Permit No.: Commercial Landfill (NM-01-0019)
P.O. Box 1658
Roswell, NM 88202
Office (575) 347-0434
Fax (575)347-0435

NORM Readings Taken: No
Reading > 50 micro roentgens: No
Pass the Paint Filter Test: No
Box Number:

WASTE MATERIAL

Material	Quantity	Cell
OCD EXEMPT SOILS	20.00 YDS	LF

TRANSPORTER

Name: PONDEROSA TRUCKING
Address:
Phone No.:

Driver Name:
Truck Number: 41
Phone No.:

I Hearby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed above.

Saul

Driver Signature

C-138

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is:

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. (Gandy Marley, Inc. accepts certifications on a per month only basis.)

☐ RCRA NON-EXEMPT: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261-24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached:

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis

Other (Provide Description Below)

☐ Emergency Non-Oilfield: Emergency non-hazardous, non-oilfied waste that has been ordered by the Department of Public Safety. (The order, documentation of non-hazardous waste determination, and a description of the waste must accompany this form.)

Name | Signature

KIMBERLY MURPHY | Kimberly Murphy

Name | Signature

GM Inc.

NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST/DISPOSAL TICKET

Ticket Number
110378
12/17/24 12:57 PM

GENERATOR

Generator: CAMBRIAN MANAGEMENT
Generator Contact:
PO BOX 272
MIDLAND, TX 79702
Phone No.: (432)620-9181

Lease: CHEM STATE #1
Location: CHEM STATE #1
Job Contact: CHRIS GADDY
Phone Number: (432)620-9181
Email:

DISPOSAL FACILITY

Site Name/Permit No.: Commercial Landfill (NM-01-0019)
P.O. Box 1658
Roswell, NM 88202
Office (575) 347-0434
Fax (575)347-0435

NORM Readings Taken: No
Reading > 50 micro roentgens: No
Pass the Paint Filter Test: No
Box Number:

WASTE MATERIAL

Material	Quantity	Cell
OCD EXEMPT SOILS	20.00 YDS	LF

TRANSPORTER

Name: PONDEROSA TRUCKING
Address:
Phone No.:

Driver Name:
Truck Number: 41
Phone No.:

I Hearby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed above.

Driver Signature

C-138

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is:

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. (Gandy Marley, Inc. accepts certifications on a per month only basis.)

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☐ MSDS Information ☐ RCRA Hazardous Waste Analysis

Other (Provide Description Below)

☐ Emergency Non-Oilfield: Emergency non-hazardous, non-oilfied waste that has been ordered by the Department of Public Safety. (The order, documentation of non-hazardous waste determination, and a description of the waste must accompany this form.)

Name Signature

Billy Jack Clayton

Name Signature

GML inc.

NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST/DISPOSAL TICKET

Ticket Number
110336
12/17/24 09:48 AM

GENERATOR

Generator: CAMBRIAN MANAGEMENT
Generator Contact:
PO BOX 272
MIDLAND, TX 79702
Phone No.: (432)620-9181

Lease: CHEM STATE #1
Location: CHEM STATE #1
Job Contact: CHRIS GADDY
Phone Number: (432)620-9181
Email:

DISPOSAL FACILITY

Site Name/Permit No.: Commercial Landfill (NM-01-0019)
P.O. Box 1658
Roswell, NM 88202
Office (575) 347-0434
Fax (575)347-0435

NORM Readings Taken: No
Reading > 50 micro roentgens: No
Pass the Paint Filter Test: No
Box Number:

WASTE MATERIAL

Material	Quantity	Cell
OCD EXEMPT SOILS	20.00 YDS	LF

TRANSPORTER

Name: PONDEROSA TRUCKING
Address:
Phone No.:

Driver Name:
Truck Number: 41
Phone No.:

I Hearby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed above.

Sam

Driver Signature

C-138

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is:

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. (Gandy Marley, Inc. accepts certifications on a per month only basis.)

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☐ MSDS Information ☐ RCRA Hazardous Waste Analysis

Other (Provide Description Below)

☐ Emergency Non-Oilfield: Emergency non-hazardous, non-oilfied waste that has been ordered by the Department of Public Safety. (The order, documentation of non-hazardous waste determination, and a description of the waste must accompany this form.)

Name Signature

Billy Jack Clayton

Name Signature

GM Inc.

NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST/DISPOSAL TICKET

Ticket Number
110417
12/17/24 04:06 PM

GENERATOR

Generator: CAMBRIAN MANAGEMENT
Generator Contact:
PO BOX 272
MIDLAND, TX 79702
Phone No.: (432)620-9181

Lease: CHEM STATE #1
Location: CHEM STATE #1
Job Contact: CHRIS GADDY
Phone Number: (432)620-9181
Email:

DISPOSAL FACILITY

Site Name/Permit No.: Commercial Landfill (NM-01-0019)
P.O. Box 1658
Roswell, NM 88202
Office (575) 347-0434
Fax (575)347-0435

NORM Readings Taken: No
Reading > 50 micro roentgens: No
Pass the Paint Filter Test: No
Box Number:

WASTE MATERIAL

Material	Quantity	Cell
OCD EXEMPT SOILS	20.00 YDS	LF

TRANSPORTER

Name: PONDEROSA TRUCKING
Address:
Phone No.:

Driver Name:
Truck Number: 41
Phone No.:

I Hearby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed above.

Driver Signature

C-138

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is:

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☐ MSDS Information ☐ RCRA Hazardous Waste Analysis

Other (Provide Description Below)

☐ Emergency Non-Oilfield: Emergency non-hazardous, non-oilfied waste that has been ordered by the Department of Public Safety. (The order, documentation of non-hazardous waste determination, and a description of the waste must accompany this form.)

Name Signature

KIMBERLY MURPHY

Name Signature

GML Inc.

NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST/DISPOSAL TICKET

Ticket Number
110520
12/18/24 04:31 PM

GENERATOR

Generator: CAMBRIAN MANAGEMENT
Generator Contact:
PO BOX 272
MIDLAND, TX 79702
Phone No.: (432)620-9181

Lease: CHEM STATE #1
Location: CHEM STATE #1
Job Contact: CHRIS GADDY
Phone Number: (432)620-9181
Email:

DISPOSAL FACILITY

Site Name/Permit No.: Commercial Landfill (NM-01-0019)
P.O. Box 1658
Roswell, NM 88202
Office (575) 347-0434
Fax (575)347-0435

NORM Readings Taken: No
Reading > 50 micro roentgens: No
Pass the Paint Filter Test: No
Box Number:

WASTE MATERIAL

Material	Quantity	Cell
OCD EXEMPT SOILS	20.00 YDS	LF

TRANSPORTER

Name: PONDEROSA TRUCKING
Address:
Phone No.:

Driver Name:
Truck Number: 41
Phone No.:

I Hearby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed above.

Driver Signature

C-138

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is:

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☐ MSDS Information ☐ RCRA Hazardous Waste Analysis

Other (Provide Description Below)

☐ Emergency Non-Oilfield: Emergency non-hazardous, non-oilfied waste that has been ordered by the Department of Public Safety. (The order, documentation of non-hazardous waste determination, and a description of the waste must accompany this form.)

Name Signature

KIMBERLY MURPHY

Name Signature

GM Inc.

NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST/DISPOSAL TICKET

Ticket Number
110438
12/18/24 09:25 AM

GENERATOR

Generator: CAMBRIAN MANAGEMENT
Generator Contact:
PO BOX 272
MIDLAND, TX 79702
Phone No.: (432)620-9181

Lease: CHEM STATE #1
Location: CHEM STATE #1
Job Contact: CHRIS GADDY
Phone Number: (432)620-9181
Email:

DISPOSAL FACILITY

Site Name/Permit No.: Commercial Landfill (NM-01-0019)
P.O. Box 1658
Roswell, NM 88202
Office (575) 347-0434
Fax (575)347-0435

NORM Readings Taken: No
Reading > 50 micro roentgens: No
Pass the Paint Filter Test: No
Box Number:

WASTE MATERIAL

Material	Quantity	Cell
OCD EXEMPT SOILS	20.00 YDS	LF

TRANSPORTER

Name: PONDEROSA TRUCKING
Address:
Phone No.:

Driver Name:
Truck Number: 41
Phone No.:

I Hearby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed above.

Driver Signature

C-138

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is:

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☐ MSDS Information ☐ RCRA Hazardous Waste Analysis

Other (Provide Description Below)

☐ Emergency Non-Oilfield: Emergency non-hazardous, non-oilfied waste that has been ordered by the Department of Public Safety. (The order, documentation of non-hazardous waste determination, and a description of the waste must accompany this form.)

Name Signature

KIMBERLY MURPHY

Name Signature

GM Inc.

NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST/DISPOSAL TICKET

Ticket Number
110477
12/18/24 12:59 PM

GENERATOR

Generator: CAMBRIAN MANAGEMENT
Generator Contact:
PO BOX 272
MIDLAND, TX 79702
Phone No.: (432)620-9181

Lease: CHEM STATE #1
Location: CHEM STATE #1
Job Contact: CHRIS GADDY
Phone Number: (432)620-9181
Email:

DISPOSAL FACILITY

Site Name/Permit No.: Commercial Landfill (NM-01-0019)
P.O. Box 1658
Roswell, NM 88202
Office (575) 347-0434
Fax (575)347-0435

NORM Readings Taken: No
Reading > 50 micro roentgens: No
Pass the Paint Filter Test: No
Box Number:

WASTE MATERIAL

Material	Quantity	Cell
OCD EXEMPT SOILS	20.00 YDS	LF

TRANSPORTER

Name: PONDEROSA TRUCKING
Address:
Phone No.:

Driver Name:
Truck Number: 41
Phone No.:

I Hearby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed above.

Driver Signature

C-138

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is:

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☐ MSDS Information ☐ RCRA Hazardous Waste Analysis

Other (Provide Description Below)

☐ Emergency Non-Oilfield: Emergency non-hazardous, non-oilfied waste that has been ordered by the Department of Public Safety. (The order, documentation of non-hazardous waste determination, and a description of the waste must accompany this form.)

Name Signature

KIMBERLY MURPHY

Name Signature

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

Operator: CAMBRIAN MANAGEMENT LTD 310 W Wall Street Ste 300 Midland, TX 79701	OGRID: 198688
	Action Number: 446073
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2426158921**
Incident Name	**NAPP2426158921 CHEM STATE #1 @ 30-025-08012**
Incident Type	**Oil Release**
Incident Status	**Remediation Closure Report Received**
Incident Well	**[30-025-08012] CHEM STATE #001**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	CHEM STATE #1
Date Release Discovered	03/28/2024
Surface Owner	State

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Normal Operations | Gasket | Crude Oil | Released: 20 BBL | Recovered: 16 BBL | Lost: 4 BBL.
Produced Water Released (bbls) Details	Cause: Normal Operations | Gasket | Produced Water | Released: 5 BBL | Recovered: 3 BBL | Lost: 2 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)	The Chem State #1 well has been P&A'd and the site is being remediated/reclaimed according to State Land Office (SLO) specifications. Upon submitting a Reclamation and Remediation Workplan to the SLO, they requested an investigation of any stained areas at the wellhead. This NOR is being submitted a result of samples collected on the wellpad that reported TPH and chloride concentrations above the OCD Closure Criteria. This is a historical release and volume calculations are based on the dimensions of visibly impacted soil at the site.

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 (continued)

Operator: CAMBRIAN MANAGEMENT LTD 310 W Wall Street Ste 300 Midland, TX 79701	OGRID: 198688
	Action Number: 446073
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	**No, according to supplied volumes this does not appear to be a "gas only" report.**
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	**Yes**
Reasons why this would be considered a submission for a notification of a major release	**From paragraph A. "Major release" determine using:** **(1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.**

With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.

Initial Response	
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.	
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	*Not answered.*

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: Socorro Hendry Title: Regulatory Manager Email: socorro.hendry@octane-energy.com Date: 03/26/2025

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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 (continued)

Operator: CAMBRIAN MANAGEMENT LTD 310 W Wall Street Ste 300 Midland, TX 79701	OGRID: 198688
	Action Number: 446073
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	U.S. Geological Survey
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1000 (ft.) and ½ (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1000 (ft.) and ½ (mi.)
Any other fresh water well or spring	Between 1000 (ft.) and ½ (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1000 (ft.) and ½ (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 1000 (ft.) and ½ (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	8750
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	14400
GRO+DRO (EPA SW-846 Method 8015M)	13820
BTEX (EPA SW-846 Method 8021B or 8260B)	110
Benzene (EPA SW-846 Method 8021B or 8260B)	2.8
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
On what estimated date will the remediation commence	09/10/2024
On what date will (or did) the final sampling or liner inspection occur	02/25/2025
On what date will (or was) the remediation complete(d)	02/25/2025
What is the estimated surface area (in square feet) that will be reclaimed	270
What is the estimated volume (in cubic yards) that will be reclaimed	980
What is the estimated surface area (in square feet) that will be remediated	270
What is the estimated volume (in cubic yards) that will be remediated	980
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.	
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

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	Action Number: 446073
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and **off-site** disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for **off-site** disposal	TNM-55-95 [fAB0000000061]
OR which OCD approved well (API) will be used for **off-site** disposal	*Not answered.*
OR is the **off-site** disposal site, to be used, out-of-state	*Not answered.*
OR is the **off-site** disposal site, to be used, an NMED facility	*Not answered.*
(Ex Situ) Excavation and **on-site** remediation (i.e. On-Site Land Farms)	*Not answered.*
(In Situ) Soil Vapor Extraction	*Not answered.*
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	*Not answered.*
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	*Not answered.*
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	*Not answered.*
Ground Water Abatement pursuant to 19.15.30 NMAC	*Not answered.*
OTHER (Non-listed remedial process)	*Not answered.*
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Socorro Hendry Title: Regulatory Manager Email: socorro.hendry@octane-energy.com Date: 03/26/2025
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

Operator: CAMBRIAN MANAGEMENT LTD 310 W Wall Street Ste 300 Midland, TX 79701	OGRID: 198688
	Action Number: 446073
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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QUESTIONS (continued)

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	Action Number: 446073
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	**433546**
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	**02/25/2025**
What was the (estimated) number of samples that were to be gathered	**1**
What was the sampling surface area in square feet	**200**

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	**Yes**
Was this release entirely contained within a lined containment area	**No**
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	270
What was the total volume (cubic yards) remediated	980
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	270
What was the total volume (in cubic yards) reclaimed	980
Summarize any additional remediation activities not included by answers (above)	Upon NMOCD approval of this Closure Report, the excavation will be backfilled to grade with nonimpacted similar material obtained from a nearby pit. Pursuant to 19.15.29.13 NMAC, the impacted surface areas will be restored to pre-release conditions. Surface grading will be performed to near original conditions and contoured to prevent erosion and ponding, promote stability, and preserve storm water flow patterns.
The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.	

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

I hereby agree and sign off to the above statement	Name: Socorro Hendry Title: Regulatory Manager Email: socorro.hendry@octane-energy.com Date: 03/26/2025

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QUESTIONS (continued)

Operator:	OGRID:
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	Action Number: 446073
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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CONDITIONS

Operator:	OGRID:
CAMBRIAN MANAGEMENT LTD 310 W Wall Street Ste 300 Midland, TX 79701	198688
	Action Number: 446073
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
scwells	Remediation closure approved.	4/25/2025