Released Volume Calculation

Length 52 feet

Width 40 feet

Thickness 0.5 in

1,040 gal = 24.76 Est. Total Bbls Released

Volume = L*W*T

Total Released Volume = 1,040 gallons (US, dry)

24.76 Bbls



Remediation Summary and Closure Report

December 4, 2024

Chem State #003 API No. 30-025-22747 Incident No. nDEV5072 (1RP-62) 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

Cvnthia K. Crain. P.G.

Chem State #003 Remediation Summary and Closure Report



Table of Contents

1.0	INTRODUCTION								
2.0	BAC	KGROUND	1						
3.0	NMC	OCD CLOSURE CRITERIA	1						
	3.1	Groundwater Evaluation	2						
	3.2	Surface Features and Other Development							
	3.3	Wetlands, Floodplain, and Karst Geology							
	3.4	Closure Criteria Currently Assumed Applicable to the Site							
4.0	SITE ASSESSMENT/CHARACTERIZATION RESULTS								
	4.1	Site Map							
	4.2	Depth to Groundwater							
	4.3	Wellhead Protection Area							
	4.4	Distance to Nearest Significant Watercourse							
	4.5	Summary of Remediation Activities	4						
	4.6	Laboratory Analytical Data Quality Assurance/Quality Control Results							
5.0	REQ	UEST FOR CLOSURE							
6.0		TRIBUTION							

TABLES

Table 1: Summary of Soil Sample Analytical Results

FIGURES

Figure 1 – Site Location Map

Figure 2 – Soil Sample Analytical Results Map

Figure 3 – Wellhead Protection Area Map

Figure 4 – National Wetlands Inventory Map

Figure 5 – FEMA Floodplain Map

Figure 6 - Karst Potential Map

APPENDICES

Appendix A – Laboratory Reports and Chain-of-Custody Documentation

Appendix B – Photographic Documentation

Appendix C - Waste Manifests



1.0 Introduction

Crain Environmental (CE), on behalf of Octane Energy (Octane) for Cambrian Management Ltd., has prepared this *Remediation Summary and Closure Report* for the produced water release at Chem State #003 (Site), located approximately 23 miles northwest of Lovington, in Lea County, New Mexico. The global positioning system (GPS) coordinates for the release point are 33.0484161, -103.7249222. 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

On February 22, 1999, a release was discovered at a flow line at the Chem State #003 while under the operation of Coastal Management Corporation. The Initial Form C-141 (Release Notification Report) was submitted to the New Mexico Oil Conservation Division (NMOCD) on March 3, 1999, and reported a release of 25 barrels (bbls) of produced water, with a recovery of 0 bbls.

The well was purchased by Cambrian Management Ltd (Cambrian) on August 6, 2001, and was plugged and abandoned (P&A) on May 6, 2008. Upon completion of P&A activities, all equipment, junk, trash, flow lines, and caliche were removed from the Site, and the surface was contoured to original surface conditions. The Site was inspected by the New Mexico Oil Conservation Division (OCD) on July 21, 2009, and release of the Site was approved by the OCD on August 6, 2001.

On October 25, 2023, CE conducted a site inspection. No visible evidence of hydrocarbon staining or salt crystallization was observed in the soil. Vegetation was present around the former well and well pad, even though tire tracks were observed crossing through the former well pad, and cattle were congregated at the edge of the former pad. Topsoil was not observed in the area around the Site, and vegetation is very sparse throughout the area.

On December 14, 2023, Octane received a letter from the ECO that provided notification of this open NMOCD Incident (nDEV5072).

Soil investigation and remediation activities have been conducted, and this Remediation Summary and Closure Report is being submitted in accordance with 19.15.29.11 New Mexico Administrative Code (NMAC) for this historical release. As a record of the Initial C-141 dated March 3, 1999, is not available in the NMOCD on-line records, a C-141v will be provided with the submittal of this Report to the NMOCD portal.

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.

Chem State #003 Remediation Summary and Closure Report



- 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. Based on the absence of water well data, the most stringent NMOCD Closure Criteria will apply to the Site.

3.2 Surface Features and Other Development

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

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



- No wells or springs located within 500 feet of the Site appear in any of the NMOSE records reviewed by CE. A freshwater pond is located approximately 1,300 feet northwest 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. A freshwater emergent wetland is located approximately 830 feet northwest of the Site, and a freshwater pond is located approximately 1,300 feet northwest 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, a freshwater emergent wetland is located approximately 830 feet northwest of the Site, and a freshwater pond is located approximately 1,300 feet northwest 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. Figures 4, 5, and 6 depict the USFWS map, the FEMA floodplain map, and the karst potential map, respectively.

3.4 Closure Criteria Currently Assumed Applicable to the Site

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

NMOCD Closure Criteria

		Closure Criteria Based on Depth to Groundwater (m						
Consti	tuent of Concern	≤ 50 feet bgs	51 feet to 100 feet bgs	> 100 feet bgs				
Chlo	ride (EPA 300)	600	10,000	20,000				
TPH (EPA	GRO + DRO + MRO	100	2,500	2,500				
8015M)	GRO + DRO	NA	1,000	1,000				
Total BTE	(EPA 8021 or 8260)	50	50	50				
Benzene	(EPA 8021 or 8260)	10	10	10				

Chem State #003 Remediation Summary and Closure Report



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 4.1 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. A review of the USFWS wetlands map indicated a freshwater emergent wetland is located approximately 830 feet northwest of the Site, and a freshwater pond is located approximately 1,300 feet northwest 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, soil samples were collected at three locations (S-1, S-2, and S-3) using a backhoe. Samples collected at depths of 1' and 2' bgs from each location 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 A. Photographic documentation is provided in Appendix B.

Referring to Table 1, concentrations of BTEX were reported below the test method detection limits in each sample. Concentrations of TPH were reported below the Closure Criteria in all samples except sample S-1 at a depth of 1' bgs (237 mg/kg). Concentrations of chlorides were reported above the Closure Criteria at a depth of 2' bgs at sample point S-1 (708 mg/kg), at depths of 1' and 2' bgs at sample point S-2 (1,690 mg/kg and 643 mg/kg, respectively), and at depth of 1' and 2' bgs at sample point S-3 (692 mg/kg and 890 mg/kg, respectively).

Excavation was conducted until confirmation samples were collected from the bottom and sidewalls of the excavation on September 26, 2024. 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 report and chain-of-custody documentation are provided in Appendix A. Photographic documentation is provided in Appendix B.

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

From September 26 to September 28, 2024, 180 cubic yards (cy) of excavated soil were hauled to disposal at GM Inc. Waste Manifests are provided in Appendix C.

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.

4.6 Laboratory Analytical Data Quality Assurance/Quality Control Results

Data reported in Job Numbers 880-40943-1 and 880-49106-1 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 A.



5.0 Request for Closure

A total of 180 cubic yards of soil was excavated and hauled to disposal at GM Inc. All confirmation samples collected from the bottom and sidewalls of the excavation reported TPH, Benzene, BTEX, and chloride concentrations below the NMOCD Closure Criteria.

Upon NMOCD approval of this Closure Report, the excavation will be backfilled to grade with 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 #nDEV5072 (1RP-62).

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 #003

Sample ID	Sample Date	Sample Depth	Soil Status	TPH (GRO)	TPH (DRO)	TPH (MRO)	Total TPH	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	Chloride	
	Date	Depth			milligrams per kilogram (mg/kg)					ram (mg/kg)				
NMOCD Clos	NMOCD Closure Criteria (Surface to 4' bgs)						100	10	-	-	-	50	600	
S-1 (1')	03/12/24	1'	Excavated	<49.8	237	<49.8	237	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	201	
S-1 (2')	03/12/24	2'	Excavated	<49.5	70.0	<49.5	70.0	<0.00200	<0.00200	<0.00200	<0.00399	< 0.00399	708	
S-1 (4.1')	09/26/24	4.1'	In Situ	<50.0	<50.0	<50.0	<50.0	< 0.00199	< 0.00199	< 0.00199	<0.00398	<0.00398	<4.99	
S-2 (1')	03/12/24	1'	Excavated	<49.6	<49.6	<49.6	<49.6	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	1,690	
S-2 (2')	03/12/24	2'	Excavated	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	643	
S-2 (4.1')	09/26/24	4.1'	In Situ	<49.7	<49.7	<49.7	<49.7	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	<4.98	
S-3 (1')	03/12/24	1'	Excavated	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00403	< 0.00403	692	
S-3 (2')	03/12/24	2'	Excavated	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	890	
S-3 (4.1')	09/26/24	4.1'	In Situ	<49.8	<49.8	<49.8	<49.8	< 0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<4.99	
S-4 (0-4')	09/26/24	0-4'	In Situ	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	< 0.00402	23.5	
S-5 (0-4')	09/26/24	0-4'	In Situ	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	< 0.00402	<4.97	
S-6 (0-4')	09/26/24	0-4'	In Situ	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	<5.05	
S-7 (0-4')	09/26/24	0-4'	In Situ	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	82.5	
S-8 (0-4')	09/26/24	0-4'	In Situ	<49.7	<49.7	<49.7	<49.7	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	<5.02	
S-9 (0-4')	09/26/24	0-4'	In Situ	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<5.01	
				1			1							

Notes:

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



FIGURES

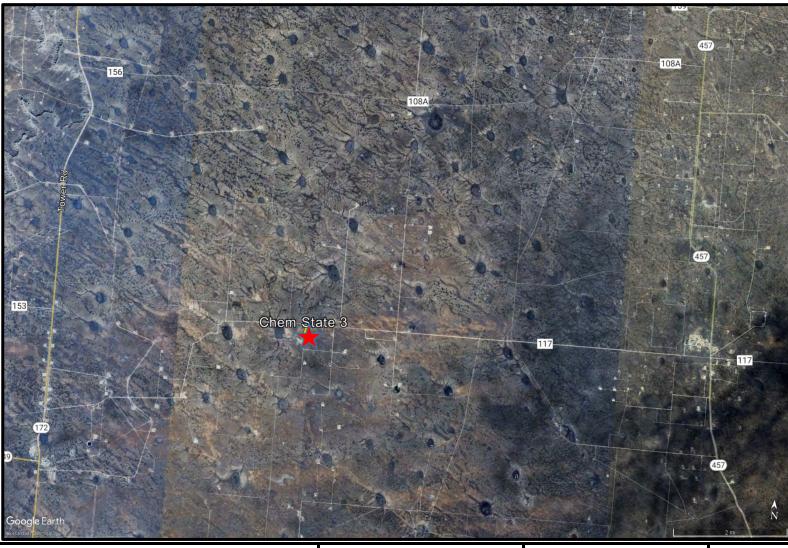




Figure 1
Site Location Map

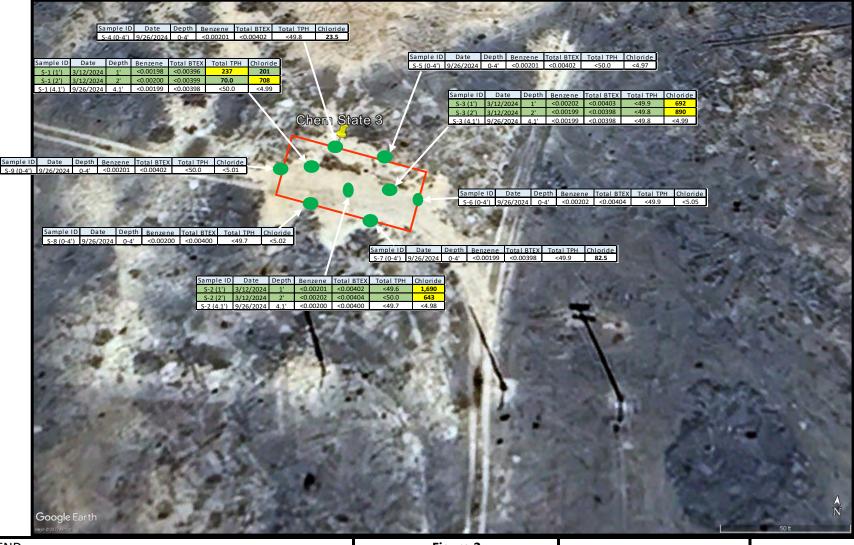
Cambrian Management Ltd.
Chem State #003
Lea County, New Mexico

Drafted by: CC | Checked by: CC
Draft: December 3, 2024

GPS: 33.0484161° -103.7249222



D. J. J. 4. T. 12/17/2024 10:40:20 43



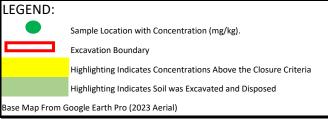


Figure 2
Soil Sample Analytical Results Map

Cambrian Management Ltd.
Chem State #003

Lea County, New Mexico

 Drafted by: CC | Checked by: CC

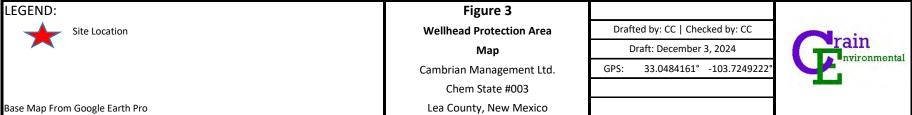
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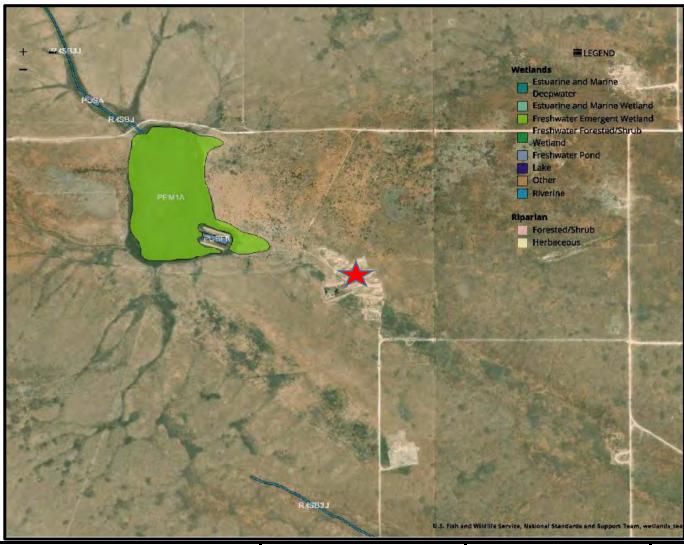
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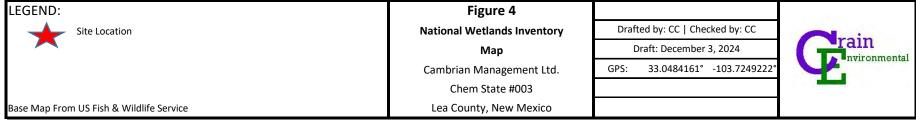


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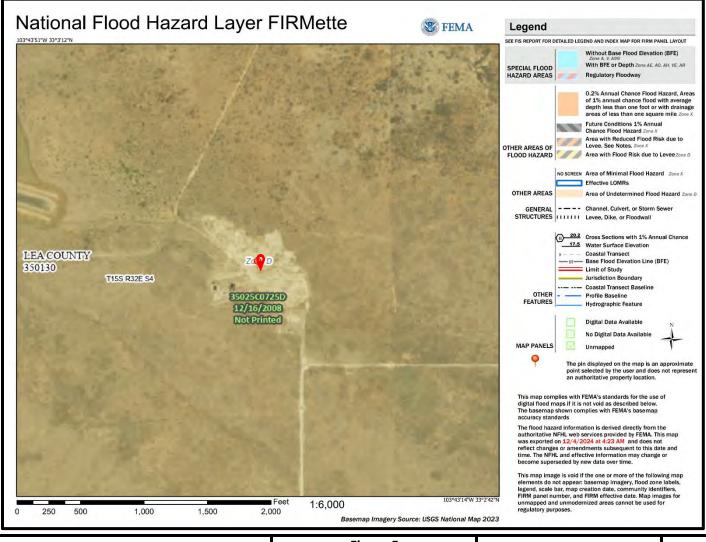


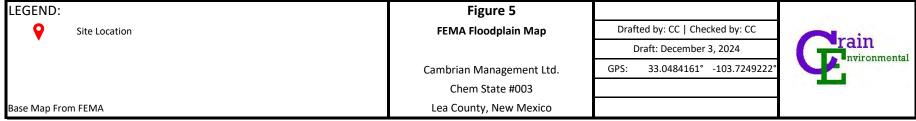




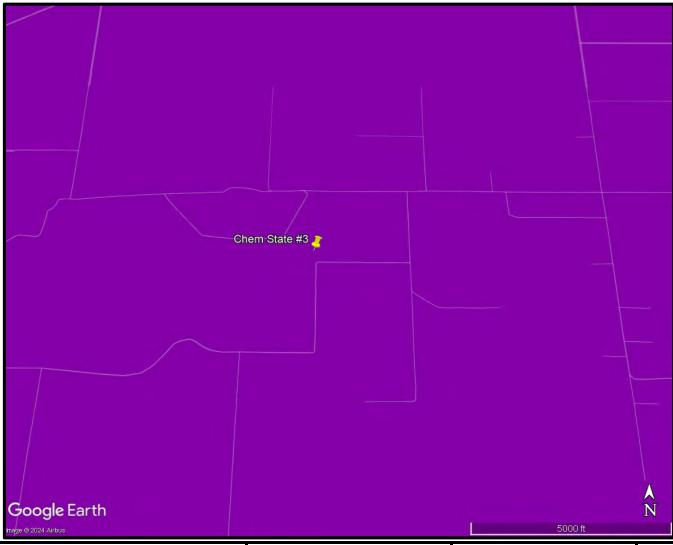


B-1----14- Tours 12/17/2024 10:40:20 434





B-1----14- T-----12/17/2024 10-40-20 434



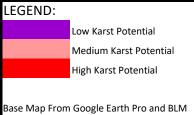


Figure 6 Karst Potential Map Cambrian Management Ltd. Chem State #003

Lea County, New Mexico

Drafted by: CC | Checked by: CC

Draft: December 3, 2024

GPS: 33.0484161° -103.7249222



D-1----14- T-----12/17/2024 10-40-20 41



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

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 3/22/2024 12:49:12 PM

JOB DESCRIPTION

Chem State #3 Lea Co., NM

JOB NUMBER

880-40943-1

Eurofins Midland 1211 W. Florida Ave Midland TX 79701

Eurofins Midland

Job Notes

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

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

Authorization

Generated 3/22/2024 12:49:12 PM

Authorized for release by Jessica Kramer, Project Manager <u>Jessica.Kramer@et.eurofinsus.com</u> (432)704-5440 4

6

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9

10

12

13

Client: Crain Environmental
Project/Site: Chem State #3

Laboratory Job ID: 880-40943-1
SDG: Lea Co., NM

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	11
QC Sample Results	12
QC Association Summary	15
Lab Chronicle	17
Certification Summary	19
Method Summary	20
Sample Summary	21
Chain of Custody	22
Receipt Checklists	23

2

3

4

5

7

9

10

12

13

Definitions/Glossary

Client: Crain Environmental

Project/Site: Chem State #3

Job ID: 880-40943-1

SDG: Lea Co., NM

2

Qualifiers

GC VOA

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

Eurofins Midland

3

4

5

6

0

3

11

4.0

Case Narrative

Client: Crain Environmental Project: Chem State #3

Job ID: 880-40943-1

Eurofins Midland Job ID: 880-40943-1

Job Narrative 880-40943-1

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

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

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

Receipt

The samples were received on 3/15/2024 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') (880-40943-1), S-1 (2') (880-40943-2), S-2 (1') (880-40943-3), S-2 (2') (880-40943-4), S-3 (1') (880-40943-5) and S-3 (2') (880-40943-6).

GC VOA

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: Surrogate recovery for the following samples were outside control limits: S-2 (1') (880-40943-3) and S-3 (2') (880-40943-6). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The method blank for preparation batch 880-75930 and analytical batch 880-76141 contained Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28) 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.

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

Client: Crain Environmental Project/Site: Chem State #3

Job ID: 880-40943-1

Lab Sample ID: 880-40943-1

SDG: Lea Co., NM

Matrix: Solid

Client Sample ID: S-1 (1')

Date Collected: 03/12/24 16:00 Date Received: 03/15/24 14:51

Sample Depth: 1'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		03/18/24 09:35	03/18/24 23:20	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/18/24 09:35	03/18/24 23:20	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/18/24 09:35	03/18/24 23:20	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		03/18/24 09:35	03/18/24 23:20	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/18/24 09:35	03/18/24 23:20	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		03/18/24 09:35	03/18/24 23:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130				03/18/24 09:35	03/18/24 23:20	1
1,4-Difluorobenzene (Surr)	98		70 - 130				03/18/24 09:35	03/18/24 23:20	1
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			03/18/24 23:20	1
Method: SW846 8015 NM - Diese	I Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	237		49.8		mg/Kg			03/22/24 01:41	1
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8		mg/Kg		03/18/24 16:28	03/22/24 01:41	1
(GRO)-C6-C10									
Diesel Range Organics (Over	237		49.8		mg/Kg		03/18/24 16:28	03/22/24 01:41	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/18/24 16:28	03/22/24 01:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	128		70 - 130				03/18/24 16:28	03/22/24 01:41	1
o-Terphenyl	110		70 - 130				03/18/24 16:28	03/22/24 01:41	1

Client Sample ID: S-1 (2') Lab Sample ID: 880-40943-2 Date Collected: 03/12/24 16:02 **Matrix: Solid**

RL

5.00

MDL Unit

mg/Kg

D

Prepared

Analyzed

03/20/24 00:29

Dil Fac

Date Received: 03/15/24 14:51

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Result Qualifier

201

Sample Depth: 2'

Analyte

Chloride

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/18/24 09:35	03/18/24 23:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/18/24 09:35	03/18/24 23:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/18/24 09:35	03/18/24 23:40	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/18/24 09:35	03/18/24 23:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/18/24 09:35	03/18/24 23:40	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/18/24 09:35	03/18/24 23:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130				03/18/24 09:35	03/18/24 23:40	1

Job ID: 880-40943-1 SDG: Lea Co., NM

Client: Crain Environmental Project/Site: Chem State #3 Client Sample ID: S-1 (2')

Lab Sample ID: 880-40943-2

Date Collected: 03/12/24 16:02 Date Received: 03/15/24 14:51

Matrix: Solid

Sample Depth: 2'

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

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	74	70 - 130	03/18/24 09:35	03/18/24 23:40	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	ma/Ka			03/18/24 23:40	1

Method: SW846 8015 NM - Die	cal Pango Organico (DDO) (CC	Α.
Method. 344046 6013 MM - Die	sei Railye Organics (DRO) (GC	•

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	70.0	49.5	mg/Kg			03/22/24 02:02	1

Method: SW846 8015B NM - Diesel Range Organics	(DRO)	(GC)	١
motified. Offerto College Ithin Biodol Rungo Organico	(5.10)	, , , , ,	,

		()	(/						
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 16:28	03/22/24 02:02	1
Diesel Range Organics (Over C10-C28)	70.0		49.5		mg/Kg		03/18/24 16:28	03/22/24 02:02	1
OII Range Organics (Over C28-C36)	<49.5	U	49.5		mg/Kg		03/18/24 16:28	03/22/24 02:02	1
Surrogato	% Pocovory	Qualifier	Limite				Drongrad	Analyzod	Dil Eac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	94	70 - 130	03/18/24 16:28	03/22/24 02:02	1
o-Terphenyl	84	70 - 130	03/18/24 16:28	03/22/24 02:02	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	708	5.05	mg/Kg			03/20/24 00:51	1

Client Sample ID: S-2 (1') Lab Sample ID: 880-40943-3 **Matrix: Solid**

Date Collected: 03/12/24 16:10 Date Received: 03/15/24 14:51

Sample Depth: 1'

Mothodi	CIMOAC GOOAD	Valatile Or	ganic Compour	de (CC)
i wethod:	5W846 8U21B	- volatile Ur	danic Compour	ias (GC)

Mothod. Office out 15 Toldin	o organio comp	ourius (CC	,						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		03/18/24 09:35	03/19/24 00:01	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/18/24 09:35	03/19/24 00:01	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/18/24 09:35	03/19/24 00:01	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/18/24 09:35	03/19/24 00:01	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/18/24 09:35	03/19/24 00:01	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/18/24 09:35	03/19/24 00:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 130				03/18/24 09:35	03/19/24 00:01	1
1,4-Difluorobenzene (Surr)	85		70 - 130				03/18/24 09:35	03/19/24 00:01	1

Г	-
	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 00:01	1

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

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6	mg/Kg			03/22/24 02:24	1

Matrix: Solid

Job ID: 880-40943-1

Client: Crain Environmental Project/Site: Chem State #3 SDG: Lea Co., NM

Client Sample ID: S-2 (1') Lab Sample ID: 880-40943-3 Date Collected: 03/12/24 16:10

Date Received: 03/15/24 14:51

Sample Depth: 1'

Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		03/18/24 16:28	03/22/24 02:24	
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		03/18/24 16:28	03/22/24 02:24	
Oll Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		03/18/24 16:28	03/22/24 02:24	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane		S1-	70 - 130				03/18/24 16:28	03/22/24 02:24	
o-Terphenyl	1	S1-	70 - 130				03/18/24 16:28	03/22/24 02:24	
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	le						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	1690		25.1		mg/Kg			03/20/24 00:58	5

Client Sample ID: S-2 (2') Lab Sample ID: 880-40943-4 Date Collected: 03/12/24 16:14 Matrix: Solid

Date Received: 03/15/24 14:51

Sample Depth: 2'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/18/24 09:35	03/19/24 00:21	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/18/24 09:35	03/19/24 00:21	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/18/24 09:35	03/19/24 00:21	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		03/18/24 09:35	03/19/24 00:21	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/18/24 09:35	03/19/24 00:21	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		03/18/24 09:35	03/19/24 00:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 130				03/18/24 09:35	03/19/24 00:21	1
1,4-Difluorobenzene (Surr)	84		70 - 130				03/18/24 09:35	03/19/24 00:21	1
Total BTEX	<0.00404	U	0.00404		mg/Kg		Prepared	03/19/24 00:21	1
Total BTEX Method: SW846 8015 NM - Diese Analyte	l Range Organ			MDL	mg/Kg	— — D	Prepared	03/19/24 00:21 Analyzed	
Thethod: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)	MDL		<u>D</u>			Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH	el Range Organ Result <50.0 sel Range Organ	Qualifier U	GC) RL 50.0		Unit mg/Kg	<u>D</u>		Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte	Range Organ Result <50.0 sel Range Orga Result	Qualifier Unics (DRO) Qualifier	GC) RL 50.0		Unit	<u>D</u>		Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics	el Range Organ Result <50.0 sel Range Organ	Qualifier Unics (DRO) Qualifier	GC) RL 50.0		Unit mg/Kg		Prepared	Analyzed 03/22/24 02:45	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Range Organ Result <50.0 sel Range Orga Result	ics (DRO) (Qualifier U nics (DRO) Qualifier U	GC) RL 50.0 (GC) RL		Unit mg/Kg		Prepared Prepared	Analyzed 03/22/24 02:45 Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	el Range Organ Result <50.0 sel Range Orga Result <50.0	ics (DRO) (Qualifier U nics (DRO) Qualifier U	GC) RL 50.0 (GC) RL 50.0		Unit mg/Kg Unit mg/Kg		Prepared Prepared 03/18/24 16:28	Analyzed 03/22/24 02:45 Analyzed 03/22/24 02:45	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	el Range Organ Result <50.0 sel Range Orga Result <50.0 <50.0	ics (DRO) (Qualifier U nics (DRO) Qualifier U U	GC) RL 50.0 (GC) RL 50.0 50.0		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared Prepared 03/18/24 16:28 03/18/24 16:28	Analyzed 03/22/24 02:45 Analyzed 03/22/24 02:45 03/22/24 02:45	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	sel Range Organ Result <50.0 sel Range Orga Result <50.0 <50.0 <50.0	ics (DRO) (Qualifier U nics (DRO) Qualifier U U	GC) RL 50.0 (GC) RL 50.0 50.0 50.0		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 03/18/24 16:28 03/18/24 16:28	Analyzed 03/22/24 02:45 Analyzed 03/22/24 02:45 03/22/24 02:45 03/22/24 02:45	Dil Fac Dil Fac 1 Dil Fac 1 1 Dil Fac 1

Client Sample Results

Client: Crain Environmental Project/Site: Chem State #3 Job ID: 880-40943-1

SDG: Lea Co., NM

Lab Sample ID: 880-40943-4

Matrix: Solid

Client Sample ID: S-2 (2') Date Collected: 03/12/24 16:14

Date Received: 03/15/24 14:51

Sample Depth: 2'

١	Method: EPA 300.0 - Anions, Ion Cl	hromatograp	hy - Soluble	•						
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
L	Chloride	643		5.01		mg/Kg			03/20/24 01:06	1

Client Sample ID: S-3 (1') Lab Sample ID: 880-40943-5 **Matrix: Solid**

Date Collected: 03/12/24 16:22 Date Received: 03/15/24 14:51

Method: TAL SOP Total BTEX - Total BTEX Calculation

Sample Depth: 1'

o-Terphenyl

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/18/24 09:35	03/19/24 00:42	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/18/24 09:35	03/19/24 00:42	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/18/24 09:35	03/19/24 00:42	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		03/18/24 09:35	03/19/24 00:42	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/18/24 09:35	03/19/24 00:42	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		03/18/24 09:35	03/19/24 00:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		70 - 130				03/18/24 09:35	03/19/24 00:42	1
1,4-Difluorobenzene (Surr)	88		70 - 130				03/18/24 09:35	03/19/24 00:42	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			03/19/24 00:42	1
Method: SW846 8015 NM - Diesel F	Range Organ	ics (DRO) (0	GC)						

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/22/24 03:06	1
Method: SW846 8015B NM - Diesel	Range Orga	nics (DRO) (G	C)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Surrogate	%Recovery		Limits		Prepared	Analyzed	Dil Fac
C10-C28) OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg	03/18/24 16:28	03/22/24 03:06	1
(GRO)-C6-C10 Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg	03/18/24 16:28	03/22/24 03:06	1
Gasoline Range Organics	<49.9	U	49.9	mg/Kg	03/18/24 16:28	03/22/24 03:06	1

Method: EPA 300.0 - Anions, Ion C	hromatograp	hy - Soluble)							
Analyte	Result	Qualifier	RL	MDL	Unit	D)	Prepared	Analyzed	Dil Fac
Chloride	692		4.99		mg/Kg				03/20/24 01:13	1

70 - 130

Eurofins Midland

03/18/24 16:28

03/22/24 03:06

Matrix: Solid

Lab Sample ID: 880-40943-6

Client Sample Results

Client: Crain Environmental

Project/Site: Chem State #3

Job ID: 880-40943-1

SDG: Lea Co., NM

Client Sample ID: S-3 (2')

Date Collected: 03/12/24 16:25 Date Received: 03/15/24 14:51

Sample Depth: 2'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/18/24 09:35	03/19/24 01:02	
Toluene	<0.00199	U	0.00199		mg/Kg		03/18/24 09:35	03/19/24 01:02	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/18/24 09:35	03/19/24 01:02	
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/18/24 09:35	03/19/24 01:02	
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/18/24 09:35	03/19/24 01:02	•
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/18/24 09:35	03/19/24 01:02	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	96		70 - 130				03/18/24 09:35	03/19/24 01:02	
1,4-Difluorobenzene (Surr)	78		70 - 130				03/18/24 09:35	03/19/24 01:02	1
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/19/24 01:02	1
Method: SW846 8015 NM - Diese			•			_			
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			03/22/24 03:28	1
Method: SW846 8015B NM - Dies	• •		• •			_			
Analyte		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 16:28	03/22/24 03:28	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		03/18/24 16:28	03/22/24 03:28	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/18/24 16:28	03/22/24 03:28	,
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	69	S1-	70 - 130				03/18/24 16:28	03/22/24 03:28	
o-Terphenyl	56	S1-	70 - 130				03/18/24 16:28	03/22/24 03:28	:
Method: EPA 300.0 - Anions, Ion	• •	•	е						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	890		4.97		mg/Kg			03/20/24 01:21	1

DFBZ = 1,4-Difluorobenzene (Surr)

Surrogate Summary

Client: Crain Environmental Job ID: 880-40943-1 Project/Site: Chem State #3 SDG: Lea Co., NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1	Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-40943-1	S-1 (1')	90	98	
880-40943-2	S-1 (2')	91	74	
880-40943-3	S-2 (1')	81	85	
880-40943-4	S-2 (2')	81	84	
880-40943-5	S-3 (1')	80	88	
880-40943-6	S-3 (2')	96	78	
LCS 880-75811/1-A	Lab Control Sample	107	114	
LCSD 880-75811/2-A	Lab Control Sample Dup	112	121	
MB 880-75811/5-A	Method Blank	72	87	
Surrogate Legend				

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

Prep Type: Total/NA **Matrix: Solid**

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-40943-1	S-1 (1')	128	110	
880-40943-2	S-1 (2')	94	84	
880-40943-3	S-2 (1')	1 S1-	1 S1-	
880-40943-4	S-2 (2')	104	87	
880-40943-5	S-3 (1')	96	86	
880-40943-6	S-3 (2')	69 S1-	56 S1-	
LCS 880-75930/2-A	Lab Control Sample	123	126	
LCSD 880-75930/3-A	Lab Control Sample Dup	85	87	
MB 880-75930/1-A	Method Blank	88	79	

1CO = 1-Chlorooctane OTPH = o-Terphenyl

Job ID: 880-40943-1

Client: Crain Environmental Project/Site: Chem State #3

SDG: Lea Co., NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-75811/5-A

Lab Sample ID: LCS 880-75811/1-A

Lab Sample ID: LCSD 880-75811/2-A

Matrix: Solid

Analysis Batch: 75918

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 75811

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/18/24 09:35	03/18/24 18:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/18/24 09:35	03/18/24 18:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/18/24 09:35	03/18/24 18:10	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/18/24 09:35	03/18/24 18:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/18/24 09:35	03/18/24 18:10	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/18/24 09:35	03/18/24 18:10	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	72		70 - 130	03/18/24 09:	35 03/18/24 18:10	1
1,4-Difluorobenzene (Surr)	87		70 - 130	03/18/24 09:	35 03/18/24 18:10	1

Client Sample ID: Lab Control Sample

70 - 130

70 - 130

Prep Type: Total/NA

Prep Batch: 75811

Analysis Batch: 75918 Spike LCS LCS Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.1020 mg/Kg 102 70 - 130 Toluene 0.100 0.09891 mg/Kg 99 70 - 130 0.100 Ethylbenzene 0.1152 mg/Kg 115 70 - 130

0.2295

0.1141

0.200

0.100

m-Xylene & p-Xylene o-Xylene

Matrix: Solid

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	114		70 - 130

Client Sample ID: Lab Control Sample Dup

115

114

mg/Kg

mg/Kg

Prep Type: Total/NA Prep Batch: 75811

Matrix: Solid Analysis Batch: 75918

	Spike	LCSD	LCSD			%Rec		RPD
Analyte	Added	Result	Qualifier l	Jnit C	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1171	r	ng/Kg	117	70 - 130	14	35
Toluene	0.100	0.1100	r	ng/Kg	110	70 - 130	11	35
Ethylbenzene	0.100	0.1247	r	ng/Kg	125	70 - 130	8	35
m-Xylene & p-Xylene	0.200	0.2582	r	ng/Kg	129	70 - 130	12	35
o-Xylene	0.100	0.1283	r	ng/Kg	128	70 - 130	12	35

LCSD	LC.	SD
	_	

Surrogate	%Recovery Qualific	er Limits
4-Bromofluorobenzene (Surr)	112	70 - 130
1.4-Difluorobenzene (Surr)	121	70 - 130

QC Sample Results

Client: Crain Environmental Job ID: 880-40943-1 Project/Site: Chem State #3 SDG: Lea Co., NM

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

Lab Sample ID: MB 880-75930/1-A

Matrix: Solid

Analysis Batch: 76141

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 75930

d Dil Fac
a Dii Fac
3:25 1
3:25 1
3:25 1
d Dil Fac
8:25 1
18 e

70 - 130

Lab Sample ID: LCS 880-75930/2-A

79

Matrix: Solid

o-Terphenyl

Analysis Batch: 76141

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

03/18/24 16:27

Prep Batch: 75930

03/21/24 18:25

LCS LCS Spike Analyte Added Result Qualifier Unit D %Rec Limits 1000 971.6 97 70 - 130 Gasoline Range Organics mg/Kg (GRO)-C6-C10 1000 Diesel Range Organics (Over 949.1 mg/Kg 95 70 - 130C10-C28)

LCS LCS %Recovery Qualifier Limits Surrogate 1-Chlorooctane 123 70 - 130 o-Terphenyl 126 70 - 130

Lab Sample ID: LCSD 880-75930/3-A

Matrix: Solid Analysis Batch: 76141 Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Prep Batch: 75930

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	992.1		mg/Kg		99	70 - 130	2	20
(GRO)-C6-C10 Diesel Range Organics (Over	1000	921.3		mg/Kg		92	70 - 130	3	20
C10-C28)									

LCSD LCSD

Surrogate	%Recovery Qualit	ier Limits
1-Chlorooctane	85	70 - 130
o-Terphenyl	87	70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-75948/1-A

Matrix: Solid

Analysis Batch: 76027

Client Sample ID: Method Blank

Prep Type: Soluble

мв мв Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Chloride <5.00 U 5.00 03/19/24 23:22 mg/Kg

Chloride

QC Sample Results

Client: Crain Environmental Job ID: 880-40943-1 Project/Site: Chem State #3 SDG: Lea Co., NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-75948/2-A					Client	Sample	ID: Lab Control Sample
Matrix: Solid							Prep Type: Soluble
Analysis Batch: 76027							
	Spike	LCS	LCS				%Rec
Analyto	Addad	Docult	Qualifier	Unit	D	% Pac	Limite

263.5

mg/Kg

105

90 - 110

Lab Sample ID: LCSD 880-75948/3-A Matrix: Solid				Clie	nt Sam	iple ID:	Lab Contro Prep	ol Sample Type: Se	
Analysis Batch: 76027	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added		Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	262.9		mg/Kg		105	90 - 110	0	20

QC Association Summary

Client: Crain Environmental Job ID: 880-40943-1
Project/Site: Chem State #3 SDG: Lea Co., NM

GC VOA

Prep Batch: 75811

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40943-1	S-1 (1')	Total/NA	Solid	5035	
880-40943-2	S-1 (2')	Total/NA	Solid	5035	
880-40943-3	S-2 (1')	Total/NA	Solid	5035	
880-40943-4	S-2 (2')	Total/NA	Solid	5035	
880-40943-5	S-3 (1')	Total/NA	Solid	5035	
880-40943-6	S-3 (2')	Total/NA	Solid	5035	
MB 880-75811/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-75811/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-75811/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 75918

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40943-1	S-1 (1')	Total/NA	Solid	8021B	75811
880-40943-2	S-1 (2')	Total/NA	Solid	8021B	75811
880-40943-3	S-2 (1')	Total/NA	Solid	8021B	75811
880-40943-4	S-2 (2')	Total/NA	Solid	8021B	75811
880-40943-5	S-3 (1')	Total/NA	Solid	8021B	75811
880-40943-6	S-3 (2')	Total/NA	Solid	8021B	75811
MB 880-75811/5-A	Method Blank	Total/NA	Solid	8021B	75811
LCS 880-75811/1-A	Lab Control Sample	Total/NA	Solid	8021B	75811
LCSD 880-75811/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	75811

Analysis Batch: 75976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40943-1	S-1 (1')	Total/NA	Solid	Total BTEX	
880-40943-2	S-1 (2')	Total/NA	Solid	Total BTEX	
880-40943-3	S-2 (1')	Total/NA	Solid	Total BTEX	
880-40943-4	S-2 (2')	Total/NA	Solid	Total BTEX	
880-40943-5	S-3 (1')	Total/NA	Solid	Total BTEX	
880-40943-6	S-3 (2')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 75930

Lab Cample ID	Client Comple ID	Drew Time	Matrix	Method	Duan Batah
Lab Sample ID	Client Sample ID	Prep Type			Prep Batch
880-40943-1	S-1 (1')	Total/NA	Solid	8015NM Prep	
880-40943-2	S-1 (2')	Total/NA	Solid	8015NM Prep	
880-40943-3	S-2 (1')	Total/NA	Solid	8015NM Prep	
880-40943-4	S-2 (2')	Total/NA	Solid	8015NM Prep	
880-40943-5	S-3 (1')	Total/NA	Solid	8015NM Prep	
880-40943-6	S-3 (2')	Total/NA	Solid	8015NM Prep	
MB 880-75930/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-75930/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-75930/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 76141

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40943-1	S-1 (1')	Total/NA	Solid	8015B NM	75930
880-40943-2	S-1 (2')	Total/NA	Solid	8015B NM	75930
880-40943-3	S-2 (1')	Total/NA	Solid	8015B NM	75930
880-40943-4	S-2 (2')	Total/NA	Solid	8015B NM	75930

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Page 15 of 23

QC Association Summary

Client: Crain Environmental Job ID: 880-40943-1
Project/Site: Chem State #3 SDG: Lea Co., NM

GC Semi VOA (Continued)

Analysis Batch: 76141 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40943-5	S-3 (1')	Total/NA	Solid	8015B NM	75930
880-40943-6	S-3 (2')	Total/NA	Solid	8015B NM	75930
MB 880-75930/1-A	Method Blank	Total/NA	Solid	8015B NM	75930
LCS 880-75930/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	75930
LCSD 880-75930/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	75930

Analysis Batch: 76293

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40943-1	S-1 (1')	Total/NA	Solid	8015 NM	
880-40943-2	S-1 (2')	Total/NA	Solid	8015 NM	
880-40943-3	S-2 (1')	Total/NA	Solid	8015 NM	
880-40943-4	S-2 (2')	Total/NA	Solid	8015 NM	
880-40943-5	S-3 (1')	Total/NA	Solid	8015 NM	
880-40943-6	S-3 (2')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 75948

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40943-1	S-1 (1')	Soluble	Solid	DI Leach	
880-40943-2	S-1 (2')	Soluble	Solid	DI Leach	
880-40943-3	S-2 (1')	Soluble	Solid	DI Leach	
880-40943-4	S-2 (2')	Soluble	Solid	DI Leach	
880-40943-5	S-3 (1')	Soluble	Solid	DI Leach	
880-40943-6	S-3 (2')	Soluble	Solid	DI Leach	
MB 880-75948/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-75948/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-75948/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 76027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40943-1	S-1 (1')	Soluble	Solid	300.0	75948
880-40943-2	S-1 (2')	Soluble	Solid	300.0	75948
880-40943-3	S-2 (1')	Soluble	Solid	300.0	75948
880-40943-4	S-2 (2')	Soluble	Solid	300.0	75948
880-40943-5	S-3 (1')	Soluble	Solid	300.0	75948
880-40943-6	S-3 (2')	Soluble	Solid	300.0	75948
MB 880-75948/1-A	Method Blank	Soluble	Solid	300.0	75948
LCS 880-75948/2-A	Lab Control Sample	Soluble	Solid	300.0	75948
LCSD 880-75948/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	75948

Eurofins Midland

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Client Sample ID: S-1 (1')

Client: Crain Environmental

Project/Site: Chem State #3

Lab Sample ID: 880-40943-1

Matrix: Solid

Date Collected: 03/12/24 16:00 Date Received: 03/15/24 14:51

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	75811	03/18/24 09:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	75918	03/18/24 23:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			75976	03/18/24 23:20	SM	EET MID
Total/NA	Analysis	8015 NM		1			76293	03/22/24 01:41	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	75930	03/18/24 16:28	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	76141	03/22/24 01:41	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	75948	03/19/24 07:51	SA	EET MID
Soluble	Analysis	300.0		1			76027	03/20/24 00:29	CH	EET MID

Client Sample ID: S-1 (2') Lab Sample ID: 880-40943-2 Date Collected: 03/12/24 16:02

Matrix: Solid

Date Received: 03/15/24 14:51

Date Received: 03/15/24 14:51

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	75811	03/18/24 09:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	75918	03/18/24 23:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			75976	03/18/24 23:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			76293	03/22/24 02:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.10 g	10 mL	75930	03/18/24 16:28	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	76141	03/22/24 02:02	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	75948	03/19/24 07:51	SA	EET MID
Soluble	Analysis	300.0		1			76027	03/20/24 00:51	CH	EET MID

Client Sample ID: S-2 (1') Lab Sample ID: 880-40943-3 Date Collected: 03/12/24 16:10 **Matrix: Solid**

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	75811	03/18/24 09:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	75918	03/19/24 00:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			75976	03/19/24 00:01	SM	EET MID
Total/NA	Analysis	8015 NM		1			76293	03/22/24 02:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	75930	03/18/24 16:28	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	76141	03/22/24 02:24	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	75948	03/19/24 07:51	SA	EET MID
Soluble	Analysis	300.0		5			76027	03/20/24 00:58	CH	EET MID

Client Sample ID: S-2 (2') Lab Sample ID: 880-40943-4 Date Collected: 03/12/24 16:14 **Matrix: Solid**

Date Received: 03/15/24 14:51

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	75811	03/18/24 09:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	75918	03/19/24 00:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			75976	03/19/24 00:21	SM	EET MID

Lab Chronicle

Client: Crain Environmental Project/Site: Chem State #3

Job ID: 880-40943-1 SDG: Lea Co., NM

Lab Sample ID: 880-40943-4

Matrix: Solid

Client Sample ID: S-2 (2')

Date Collected: 03/12/24 16:14 Date Received: 03/15/24 14:51

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			76293	03/22/24 02:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	75930	03/18/24 16:28	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	76141	03/22/24 02:45	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	75948	03/19/24 07:51	SA	EET MID
Soluble	Analysis	300.0		1			76027	03/20/24 01:06	CH	EET MID

Client Sample ID: S-3 (1')

Date Collected: 03/12/24 16:22

Lab Sample ID: 880-40943-5

Matrix: Solid

Date Collected: 03/12/24 16:22
Date Received: 03/15/24 14:51

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	75811	03/18/24 09:35	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	75918	03/19/24 00:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			75976	03/19/24 00:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			76293	03/22/24 03:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	75930	03/18/24 16:28	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	76141	03/22/24 03:06	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	75948	03/19/24 07:51	SA	EET MID
Soluble	Analysis	300.0		1			76027	03/20/24 01:13	CH	EET MID

Client Sample ID: S-3 (2')

Lab Sample ID: 880-40943-6

Date Collected: 03/12/24 16:25 Date Received: 03/15/24 14:51

Batch Batch Dil Initial Final Batch Prepared **Prep Type** Type Method Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA Prep 5035 5.02 g 5 mL 75811 03/18/24 09:35 MNR EET MID Total/NA 8021B 5 mL 5 mL 75918 03/19/24 01:02 MNR **EET MID** Analysis 1 Total/NA Total BTEX Analysis 1 75976 03/19/24 01:02 SM **EET MID** Total/NA Analysis 8015 NM 76293 03/22/24 03:28 SM **EET MID** 1 Total/NA Prep 8015NM Prep 10.04 g 10 mL 75930 03/18/24 16:28 EL **EET MID** Total/NA Analysis 8015B NM 1 uL 1 uL 76141 03/22/24 03:28 SM EET MID 1 Soluble Leach DI Leach 5.03 g 50 mL 75948 03/19/24 07:51 SA **EET MID** Soluble Analysis 300.0 76027 03/20/24 01:21 СН EET MID 1

Laboratory References:

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

Eurofins Midland

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Matrix: Solid

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Accreditation/Certification Summary

Client: Crain Environmental Job ID: 880-40943-1
Project/Site: Chem State #3 SDG: Lea Co., NM

Laboratory: Eurofins Midland

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

Authority	Progra	am	Identification Number	Expiration Date
Texas	NELAF	Р	T104704400-23-26	06-30-24
The following analytes	are included in this report, bu	it the laboratory is not certif	fied by the governing authority. This lis	t mav include analyte
for which the agency de	oes not offer certification.			
for which the agency do Analysis Method	oes not offer certification . Prep Method	Matrix	Analyte	
ů ,		Matrix Solid	Analyte Total TPH	

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Method Summary

Client: Crain Environmental Project/Site: Chem State #3

Job ID: 880-40943-1 SDG: Lea Co., NM

ea Co., INIVI	

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 #3 Job ID: 880-40943-1

SDG: Lea Co., NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-40943-1		Solid	03/12/24 16:00	03/15/24 14:51	<u> </u>
	S-1 (1')				ı
880-40943-2	S-1 (2')	Solid	03/12/24 16:02	03/15/24 14:51	2'
880-40943-3	S-2 (1')	Solid	03/12/24 16:10	03/15/24 14:51	1'
880-40943-4	S-2 (2')	Solid	03/12/24 16:14	03/15/24 14:51	2'
880-40943-5	S-3 (1')	Solid	03/12/24 16:22	03/15/24 14:51	1'
880-40943-6	S-3 (2')	Solid	03/12/24 16:25	03/15/24 14:51	2'

880-40943 Chain of Custody

se eurofins

Environment Testing

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

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Project Manager CINAN CAIN	Sin O			Bill to: (if different)	ferent)		Chri	Chris Goddu	S.				Wor	k Order (Work Order Comments	
Company Name Crain Courronmenta	wronm	ental		Company Name:	ame:		Octor	3	, 82			Program UST/PST PRP Brownfields RRC	PST PF	G	ownfields RR	Superfund
Address: 2925 C. 175 St.	17をの	ホ		Address.			30 1	J. WA	310 W. Wall 51e. 300	300		State of Project: NM	:]	i]		
City, State ZIP: Dde55a, 7X 7976	TX 7	9761		City, State ZIP	ė	2	lidbi	10, 1	Midland, TX 79701	701		Reporting Level	} 	el III	PST/UST TR	Reporting Level II Level III PST/UST TRRP Level IV
Phone: (575) 441.7244	11.724	†	Email.		. Cro	(a)	ama	Cindy, crain @ amail, con				Deliverables.	EDD	AD	ADaPT Other	er.
Project Name: Chem State # 3	aske #	W	Eng.	Turn Around		-			43.42	ANALYSI	ANALYSIS REQUEST	-			Precent	Preservative Codes
Project Number -			Koutine	Rush	EU	Code S						Norway and a second			None NO	DI Water H.O
Project Location: Lea Co.,	Z Z		Due Date:											-		M HOOM
Sampler's Name: Cindy C	rain		TAT starts the	TAT starts the day received by	<u>\$</u>										HCL. HC	HNO. HN
PO#		کی	the lab, if rec	the lab, if received by 4:30pm	Ę										H,50, H	eN HOeN
SAMPLE RECEIPT Temp E	Blank:	Yes No	Wet Ice:	(kes) No		sters									H, PO, HP	<u> </u>
Samples Received Intact: (Yes)	. \ oN (sə\)	Thermometer ID:	r.Ö:	120		-	h			-				**********	NaHSO . NARIS	Sic
Cooler Custody Seals: Yes No / N/A	-	Correction Factor	actor	1	L		/ C	S							Na.S.O. NaSO.	; ;; ;;
Sample Custody Seals: Yes No (N/A,		Temperature Reading	e Reading	3.8			10	70							7n Acetate+NaOH 7n	aOH Zn
Total Containers:)	Corrected Temperature	emperature:	3.7			0	NO							NaOH+Ascorbic Acid. SAPC	oic Acid. SAPC
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ # of Comp Cont		HH HH	14N 1-81							Sample	Sample Comments
5-1 (1:)	ย	3/12/24	11,00	Ŀ			X	X		-			-			
5-1 (2.)				7			_							-		
5-2 (11)			0191											_		
5-2 (2')			1614	2.		_								-		
5-2 (1)			1622	=										_		
5-3 (21)	À	>	9291	2,	->		→	>						-	-	
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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 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

TCLP / SPLP 6010

Circle Method(s) and Metal(s) to be analyzed

200.8 / 6020

Total 200.7 / 6010

Se Ag SiO₂ Na Sr Tl Sn U V Zn

8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K

8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U

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Revised Date: 08/25/2020 Rev 2020.2	8				
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Date/Time	Received by: (Signature)	Relinquished by: (Signature)		Received by (Agnature)	Relinquished by (Signature)
Annual Control of the		The second secon	I		

Login Sample Receipt Checklist

Client: Crain Environmental Job Number: 880-40943-1 SDG Number: Lea Co., NM

Login Number: 40943 **List Source: Eurofins Midland**

List Number: 1

Creator: Rodriguez, Leticia

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

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 10/3/2024 3:30:21 PM

JOB DESCRIPTION

Chem State #3 Lea Co., NM

JOB NUMBER

880-49106-1

Eurofins Midland 1211 W. Florida Ave Midland TX 79701

Eurofins Midland

Job Notes

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

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

Authorization

Generated 10/3/2024 3:30:21 PM

Authorized for release by Jessica Kramer, Project Manager <u>Jessica.Kramer@et.eurofinsus.com</u> (432)704-5440 11

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Released to Imaging: 12/17/2024 10:49:30 AM

Client: Crain Environmental
Project/Site: Chem State #3

Laboratory Job ID: 880-49106-1
SDG: Lea Co., NM

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	14
QC Sample Results	15
QC Association Summary	19
Lab Chronicle	22
Certification Summary	25
Method Summary	26
Sample Summary	27
Chain of Custody	28
Receint Checklists	29

Definitions/Glossary

Client: Crain Environmental Job ID: 880-49106-1 Project/Site: Chem State #3 SDG: Lea Co., NM

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description**

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

HPLC/IC

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

Glossary

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

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

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

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

Detection Limit (DoD/DOE) DL

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

DLC Decision Level Concentration (Radiochemistry)

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

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

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

NC Not Calculated

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

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)

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

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

TNTC Too Numerous To Count

Case Narrative

Client: Crain Environmental Project: Chem State #3

Job ID: 880-49106-1

Job ID: 880-49106-1 Eurofins Midland

Job Narrative 880-49106-1

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-1 (4.1') (880-49106-1), S-2 (4.1') (880-49106-2), S-3 (4.1') (880-49106-3), S-4 (0-4') (880-49106-4), S-5 (0-4') (880-49106-5), S-6 (0-4') (880-49106-6), S-7 (0-4') (880-49106-7), S-8 (0-4') (880-49106-8) and S-9 (0-4') (880-49106-9).

GC VOA

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-92059 recovered below the lower control limit for Toluene. An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-92059/2).

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.

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.

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Job ID: 880-49106-1

Lab Sample ID: 880-49106-1

SDG: Lea Co., NM

Matrix: Solid

Client Sample ID: S-1 (4.1')

Client: Crain Environmental

Project/Site: Chem State #3

Date Collected: 09/26/24 14:25 Date Received: 09/27/24 13:45

Sample Depth: 4.1'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/30/24 09:32	09/30/24 20:30	1
Toluene	< 0.00199	U	0.00199		mg/Kg		09/30/24 09:32	09/30/24 20:30	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		09/30/24 09:32	09/30/24 20:30	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/30/24 09:32	09/30/24 20:30	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		09/30/24 09:32	09/30/24 20:30	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/30/24 09:32	09/30/24 20:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				09/30/24 09:32	09/30/24 20:30	1
1,4-Difluorobenzene (Surr)	103		70 - 130				09/30/24 09:32	09/30/24 20:30	1
Method: TAL SOP Total BTEX - 1 Analyte Total BTEX	Result	Qualifier	RL	MDL		<u>D</u>	Prepared	Analyzed 09/30/24 20:30	Dil Fac
Analyte Total BTEX	<0.00398	Qualifier U	0.00398	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 09/30/24 20:30	Dil Fac
Analyte	Result <0.00398	Qualifier U	0.00398	MDL MDL	mg/Kg	<u>D</u>	Prepared Prepared		Dil Fac
Analyte Total BTEX Method: SW846 8015 NM - Diese	Result <0.00398	Qualifier U ics (DRO) (Qualifier	0.00398 GC)		mg/Kg	=		09/30/24 20:30	Dil Fac
Analyte Total BTEX Method: SW846 8015 NM - Diese Analyte	Result < Result < 0.00398 Pl Range Organ Result < 50.0	Qualifier U ics (DRO) (Qualifier U	0.00398 GC) RL 50.0		mg/Kg Unit	=		09/30/24 20:30 Analyzed	Dil Fac
Analyte Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH	Result <0.00398 el Range Organ Result <50.0 sel Range Orga	Qualifier U ics (DRO) (Qualifier U	0.00398 GC) RL 50.0		mg/Kg Unit mg/Kg	=		09/30/24 20:30 Analyzed	Dil Fac
Analyte Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese	Result <0.00398 el Range Organ Result <50.0 sel Range Orga	Qualifier U ics (DRO) (Qualifier U nics (DRO) Qualifier	0.00398 GC) RL 50.0 (GC)	MDL	mg/Kg Unit mg/Kg	<u>D</u>	Prepared	09/30/24 20:30 Analyzed 10/02/24 01:12	Dil Fac
Analyte Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics	Result <0.00398 el Range Organ Result <50.0 sel Range Orga Result	Qualifier U ics (DRO) (Cualifier U nics (DRO) Qualifier U Qualifier U	0.00398 GC) RL 50.0 (GC) RL	MDL	mg/Kg Unit mg/Kg Unit	<u>D</u>	Prepared Prepared	09/30/24 20:30 Analyzed 10/02/24 01:12 Analyzed	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

%Recovery Qualifier

91

92

Analyte Result Qualifier RL MDL Unit D Prepared Dil Fac Analyzed Chloride <4.99 U 4.99 10/03/24 03:29 mg/Kg

Limits

70 - 130

70 - 130

Client Sample ID: S-2 (4.1')

Date Collected: 09/26/24 14:30 Date Received: 09/27/24 13:45

Sample Depth: 4.1'

Surrogate 1-Chlorooctane

o-Terphenyl

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 16:17	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/30/24 11:06	10/01/24 16:17	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/30/24 11:06	10/01/24 16:17	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/30/24 11:06	10/01/24 16:17	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/30/24 11:06	10/01/24 16:17	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/30/24 11:06	10/01/24 16:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				09/30/24 11:06	10/01/24 16:17	1

Eurofins Midland

Dil Fac

Matrix: Solid

Analyzed

10/02/24 01:12

10/02/24 01:12

Lab Sample ID: 880-49106-2

Prepared

09/29/24 20:31

09/29/24 20:31

Job ID: 880-49106-1

Lab Sample ID: 880-49106-2

SDG: Lea Co., NM

Matrix: Solid

Client Sample ID: S-2 (4.1')

Client: Crain Environmental

Project/Site: Chem State #3

Date Collected: 09/26/24 14:30 Date Received: 09/27/24 13:45

Sample Depth: 4.1'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	105		70 - 130	09/30/24 11:06	10/01/24 16:17	1

Mothod: TAL SOE	Total PTEV Total	I BTEX Calculation
Wethoa: TAL SUP	' lotal BTEX - lota	II BIEX Calculation

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg		_	10/01/24 16:17	1

Method: SW846 8015 NM - Diesel Range Organics (DR	
	Organica (DDO) (CC)
	Ordanics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	l Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	·	mg/Kg			10/02/24 01:42	1

Method: SW846 8015B NM - Diesel Range Organics	(DRO)	(GC)	١
motified. Offerto College Ithin Biodol Rungo Organico	(5.10)	, , , , ,	,

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 20:31	10/02/24 01:42	1
Diesel Range Organics (Over	<49.7	U	49.7		mg/Kg		09/29/24 20:31	10/02/24 01:42	1
C10-C28) Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		09/29/24 20:31	10/02/24 01:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	85	70 - 130	09/29/24 20:31	10/02/24 01:42	1
o-Terphenyl	85	70 - 130	09/29/24 20:31	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	<4.98	U	4.98	mg/	Kg			10/03/24 03:36	1	

Client Sample ID: S-3 (4.1') Lab Sample ID: 880-49106-3

Date Collected: 09/26/24 14:35 Date Received: 09/27/24 13:45

Sample Depth: 4.1'

Mothodi	CIMOAC GOOAD	Valatile Or	ganic Compour	de (CC)
i wethod:	5W846 8U21B	- volatile Ur	danic Compour	ias (GC)

notified. 6476-46 6621B - Volutile Grigarile Gempouries (GG)									
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 16:37	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/30/24 11:06	10/01/24 16:37	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		09/30/24 11:06	10/01/24 16:37	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/30/24 11:06	10/01/24 16:37	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/30/24 11:06	10/01/24 16:37	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/30/24 11:06	10/01/24 16:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				09/30/24 11:06	10/01/24 16:37	1
1,4-Difluorobenzene (Surr)	102		70 - 130				09/30/24 11:06	10/01/24 16:37	1

1,1 2		 00/00/21////00
_		
Method: TAL SOP Total BTEX - Tot	al RTFY Calculation	
Michiga, IAL 301 Total BTLA - 101	ai bi La Calculation	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/01/24 16:37	1

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			10/02/24 01:56	1

Eurofins Midland

Matrix: Solid

Matrix: Solid

Lab Sample ID: 880-49106-3

10/03/24 03:42

Matrix: Solid

Lab Sample ID: 880-49106-4

Client Sample Results

Client: Crain Environmental Job ID: 880-49106-1 Project/Site: Chem State #3 SDG: Lea Co., NM

Client Sample ID: S-3 (4.1')

Date Collected: 09/26/24 14:35 Date Received: 09/27/24 13:45

Sample Depth: 4.1'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		09/29/24 20:31	10/02/24 01:56	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		09/29/24 20:31	10/02/24 01:56	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/29/24 20:31	10/02/24 01:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130				09/29/24 20:31	10/02/24 01:56	1
o-Terphenyl	88		70 - 130				09/29/24 20:31	10/02/24 01:56	1

4.99

mg/Kg

<4.99 U

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

Date Collected: 09/26/24 14:40

Date Received: 09/27/24 13:45

Sample Depth: 0-4'

Chloride

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/30/24 11:06	10/01/24 18:00	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/30/24 11:06	10/01/24 18:00	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/30/24 11:06	10/01/24 18:00	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/30/24 11:06	10/01/24 18:00	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/30/24 11:06	10/01/24 18:00	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/30/24 11:06	10/01/24 18:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				09/30/24 11:06	10/01/24 18:00	1
1,4-Difluorobenzene (Surr)	103		70 - 130				09/30/24 11:06	10/01/24 18:00	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	11			no a/1/ a			10/01/24 18:00	1
IOIAI DI EX	~0.00402	U	0.00402		mg/Kg			10/01/24 16:00	1
- -					mg/Kg			10/01/24 16:00	'
: Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)	MDI		D	Propared		·
Method: SW846 8015 NM - Diese Analyte	el Range Organ Result	ics (DRO) (GC)	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
: Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)	MDL		<u>D</u>	Prepared		·
Method: SW846 8015 NM - Diese Analyte	Result <49.8	ics (DRO) (Qualifier	RL 49.8	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH	el Range Organ Result 49.8 sel Range Organ	ics (DRO) (Qualifier	RL 49.8		Unit	<u>D</u>	Prepared Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte	el Range Organ Result 49.8 sel Range Organ	Qualifier Unics (DRO) Qualifier	RL 49.8 (GC)		Unit mg/Kg	_	<u> </u>	Analyzed 10/02/24 02:11	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics	el Range Organ Result 49.8 sel Range Orga Result 49.8	ics (DRO) (Qualifier U nics (DRO) Qualifier U	GC) RL 49.8 (GC) RL 49.8		Unit mg/Kg Unit mg/Kg	_	Prepared 09/29/24 20:31	Analyzed 10/02/24 02:11 Analyzed 10/02/24 02:11	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <a< td=""><td>ics (DRO) (Qualifier U nics (DRO) Qualifier U</td><td>RL 49.8 (GC)</td><td></td><td>Unit mg/Kg</td><td>_</td><td>Prepared</td><td>Analyzed 10/02/24 02:11 Analyzed</td><td>Dil Fac</td></a<>	ics (DRO) (Qualifier U nics (DRO) Qualifier U	RL 49.8 (GC)		Unit mg/Kg	_	Prepared	Analyzed 10/02/24 02:11 Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	el Range Organ Result 49.8 sel Range Orga Result 49.8 49.8	ics (DRO) (Qualifier U nics (DRO) Qualifier U	GC) RL 49.8 (GC) RL 49.8 49.8		Unit mg/Kg Unit mg/Kg mg/Kg	_	Prepared 09/29/24 20:31 09/29/24 20:31	Analyzed 10/02/24 02:11 Analyzed 10/02/24 02:11 10/02/24 02:11	Dil Fac Dil Fac 1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	el Range Organ Result 49.8 sel Range Orga Result 49.8	ics (DRO) (Qualifier U nics (DRO) Qualifier U	GC) RL 49.8 (GC) RL 49.8		Unit mg/Kg Unit mg/Kg	_	Prepared 09/29/24 20:31	Analyzed 10/02/24 02:11 Analyzed 10/02/24 02:11	Dil Fac Dil Fac 1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	el Range Organ Result 49.8 sel Range Orga Result 49.8 49.8	ics (DRO) (Qualifier U nics (DRO) Qualifier U U	GC) RL 49.8 (GC) RL 49.8 49.8		Unit mg/Kg Unit mg/Kg mg/Kg	_	Prepared 09/29/24 20:31 09/29/24 20:31	Analyzed 10/02/24 02:11 Analyzed 10/02/24 02:11 10/02/24 02:11	Dil Fac Dil Fac 1 1 1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	el Range Organ Result 49.8 sel Range Orga Result 49.8 49.8 49.8	ics (DRO) (Qualifier U nics (DRO) Qualifier U U	GC) RL 49.8 (GC) RL 49.8 49.8 49.8		Unit mg/Kg Unit mg/Kg mg/Kg	_	Prepared 09/29/24 20:31 09/29/24 20:31	Analyzed 10/02/24 02:11 Analyzed 10/02/24 02:11 10/02/24 02:11 10/02/24 02:11	Dil Fac Dil Fac 1

Client Sample Results

Client: Crain Environmental Project/Site: Chem State #3 Job ID: 880-49106-1

SDG: Lea Co., NM

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

Date Collected: 09/26/24 14:40 Date Received: 09/27/24 13:45

Sample Depth: 0-4'

Lab Sample ID: 880-49106-4

Matrix: Solid

Method: EPA 300.0 - Anions, Ion C	hromatograp	hy - Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23.5		5.00		mg/Kg			10/03/24 03:48	1

Client Sample ID: S-5 (0-4') Lab Sample ID: 880-49106-5 **Matrix: Solid**

Date Collected: 09/26/24 14:45 Date Received: 09/27/24 13:45

Sample Depth: 0-4'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00201	U	0.00201		mg/Kg		09/30/24 11:06	10/01/24 18:21	
Toluene	<0.00201	U	0.00201		mg/Kg		09/30/24 11:06	10/01/24 18:21	
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/30/24 11:06	10/01/24 18:21	
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/30/24 11:06	10/01/24 18:21	
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/30/24 11:06	10/01/24 18:21	
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/30/24 11:06	10/01/24 18:21	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)			70 - 130				09/30/24 11:06	10/01/24 18:21	
1,4-Difluorobenzene (Surr)	100		70 - 130				09/30/24 11:06	10/01/24 18:21	
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation							
Method. IAL OOI Total DILA - I									
	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Total BTEX	Result <0.00402		RL 0.00402	MDL	Unit mg/Kg	D	Prepared	Analyzed 10/01/24 18:21	
Analyte Total BTEX	<0.00402	U	0.00402	MDL		<u>D</u>	Prepared		
Analyte	<0.00402	U	0.00402			<u>D</u> 	Prepared Prepared		,
Analyte Total BTEX Method: SW846 8015 NM - Diese	<0.00402	ics (DRO) (Qualifier	0.00402 GC)		mg/Kg		<u> </u>	10/01/24 18:21	Dil Fac
Analyte Total BTEX Method: SW846 8015 NM - Diese Analyte	<0.00402 el Range Organ Result <50.0	Uics (DRO) (Gualifier	0.00402 GC) RL 50.0		mg/Kg		<u> </u>	10/01/24 18:21 Analyzed	Dil Fac
Analyte Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese	<0.00402 el Range Organ Result <p><50.0</p> sel Range Organ	Uics (DRO) (Gualifier	0.00402 GC) RL 50.0		mg/Kg Unit mg/Kg		<u> </u>	10/01/24 18:21 Analyzed	Dil Fac
Analyte Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics	<0.00402 el Range Organ Result <p><50.0</p> sel Range Organ	ics (DRO) (Qualifier Unics (DRO) Qualifier	0.00402 GC) RL 50.0 (GC)	MDL	mg/Kg Unit mg/Kg	<u>D</u>	Prepared	10/01/24 18:21 Analyzed 10/02/24 02:25	Dil Fac
Analyte Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<0.00402 el Range Organ Result <p><50.0</p> sel Range Organ Result	ics (DRO) (Oualifier Unics (DRO) Qualifier Unics (DRO) Qualifier U	0.00402 GC) RL 50.0 (GC) RL	MDL	mg/Kg Unit mg/Kg Unit	<u>D</u>	Prepared Prepared	10/01/24 18:21 Analyzed 10/02/24 02:25 Analyzed	Dil Fa
Analyte Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<0.00402 el Range Organ Result <50.0 sel Range Orga Result <50.0	ics (DRO) (Oualifier Unics (DRO) Qualifier Unics (DRO) Qualifier U	0.00402 GC) RL 50.0 (GC) RL 50.0	MDL	mg/Kg Unit mg/Kg Unit mg/Kg	<u>D</u>	Prepared Prepared 09/29/24 20:31	Analyzed 10/02/24 02:25 Analyzed 10/02/24 02:25	Dil Fac
Analyte Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10	<0.00402 el Range Organ Result <50.0 sel Range Orga Result <50.0 <50.0	ics (DRO) (Oualifier Unics (DRO) Qualifier Unics (DRO) Qualifier U	0.00402 GC) RL 50.0 GC) RL 50.0	MDL	mg/Kg Unit mg/Kg Unit mg/Kg mg/Kg	<u>D</u>	Prepared Prepared 09/29/24 20:31 09/29/24 20:31	Analyzed 10/02/24 02:25 Analyzed 10/02/24 02:25 10/02/24 02:25	Dil Fa
Analyte Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	<0.00402 el Range Organ Result <50.0 sel Range Orga Result <50.0 <50.0 <50.0	ics (DRO) (On Qualifier Unics (DRO) Qualifier Unics (DRO) Qualifier U	0.00402 RL 50.0 (GC) RL 50.0 50.0 50.0	MDL	mg/Kg Unit mg/Kg Unit mg/Kg mg/Kg	<u>D</u>	Prepared Prepared 09/29/24 20:31 09/29/24 20:31	Analyzed 10/02/24 02:25 Analyzed 10/02/24 02:25 10/02/24 02:25 10/02/24 02:25	Dil Fac

Eurofins Midland

RL

4.97

MDL Unit

mg/Kg

D

Prepared

Result Qualifier

<4.97 U

Dil Fac

Analyzed

10/03/24 04:08

Analyte

Chloride

Client: Crain Environmental Project/Site: Chem State #3

Job ID: 880-49106-1

SDG: Lea Co., NM

Lab Sample ID: 880-49106-6

Matrix: Solid

Client Sample ID: S-6 (0-4')

Date Collected: 09/26/24 14:50 Date Received: 09/27/24 13:45

Sample Depth: 0-4'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		09/30/24 11:06	10/01/24 18:41	1
Toluene	<0.00202	U	0.00202		mg/Kg		09/30/24 11:06	10/01/24 18:41	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		09/30/24 11:06	10/01/24 18:41	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		09/30/24 11:06	10/01/24 18:41	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		09/30/24 11:06	10/01/24 18:41	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		09/30/24 11:06	10/01/24 18:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				09/30/24 11:06	10/01/24 18:41	1
1,4-Difluorobenzene (Surr)	104		70 - 130				09/30/24 11:06	10/01/24 18:41	1
- Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			10/01/24 18:41	1
Method: SW846 8015 NM - Diese	I Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/02/24 02:40	1
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		09/29/24 20:31	10/02/24 02:40	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/29/24 20:31	10/02/24 02:40	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/29/24 20:31	10/02/24 02:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130				09/29/24 20:31	10/02/24 02:40	1
o-Terphenyl	88		70 - 130				09/29/24 20:31	10/02/24 02:40	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.05	U	5.05		mg/Kg			10/03/24 04:14	1

Client Sample ID: S-7 (0-4')

Date Collected: 09/26/24 14:55

Date Received: 09/27/24 13:45

Sample Depth: 0-4'

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 19:01	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/30/24 11:06	10/01/24 19:01	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/30/24 11:06	10/01/24 19:01	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/30/24 11:06	10/01/24 19:01	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/30/24 11:06	10/01/24 19:01	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/30/24 11:06	10/01/24 19:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				09/30/24 11:06	10/01/24 19:01	

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Lab Sample ID: 880-49106-7

Matrix: Solid

Client Sample Results

Client: Crain Environmental Project/Site: Chem State #3 Job ID: 880-49106-1 SDG: Lea Co., NM

Client Sample ID: S-7 (0-4') Lab Sample ID: 880-49106-7 Date Collected: 09/26/24 14:55

Matrix: Solid

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

Method: SW846 8021B	- Volatile Organic	Compounds	(GC) (Continued)
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Surrogate	%Recovery Qualific		Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	103	70 - 130	09/30/24 11:06	10/01/24 19:01	1

Mothod: TAL SOE	Total PTEV Total	I BTEX Calculation
Wethoa: TAL SUP	' lotal BTEX - lota	II BIEX Calculation

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	ma/Ka			10/01/24 19:01	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (0	н						
	ı	Mothod: CIMOAC ODAE NIM	Discal Bangs	Organica	(DDO)		١.
	н	MELITOU. SYVO40 OUTS INIVI-	· Diesei Kaliue	Organics	IURUI	uu	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/02/24 02:54	1

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

Analyte		Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics		<49.9	U	49.9		mg/Kg		09/29/24 20:31	10/02/24 02:54	1
(GRO)-C6-C10										
Diesel Range Organics (Ov	er	<49.9	U	49.9		mg/Kg		09/29/24 20:31	10/02/24 02:54	1
C10-C28)										
Oil Range Organics (Over C	28-C36)	<49.9	U	49.9		mg/Kg		09/29/24 20:31	10/02/24 02:54	1
Surrogate	%Re	covery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzea	DII Fac
1-Chlorooctane	101		70 - 130	09/29/24 20:31	10/02/24 02:54	1
o-Terphenyl	97		70 - 130	09/29/24 20:31	10/02/24 02:54	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	82.5	5.01	mg/Kg			10/03/24 04:20	1

Client Sample ID: S-8 (0-4')

Date Collected: 09/26/24 15:00

Date Received: 09/27/24 13:45

Sample Depth: 0-4'

Markland, CIMO 40 00	21B - Volatile Organic	O = (OO)
IVIATOON' SVVXAN XII	21B - Volatile Circanic	L.Omnollings (Lat.)

Michiga. Offoro ouz ID - folatil	Organio Compoundo (CC)								
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 19:22	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/30/24 11:06	10/01/24 19:22	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/30/24 11:06	10/01/24 19:22	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/30/24 11:06	10/01/24 19:22	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/30/24 11:06	10/01/24 19:22	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/30/24 11:06	10/01/24 19:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				09/30/24 11:06	10/01/24 19:22	1
1,4-Difluorobenzene (Surr)	101		70 - 130				09/30/24 11:06	10/01/24 19:22	1

Mothod: TAI	SOP Total RTFY	- Total RTFY	Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	I	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00400	U	0.00400		ma/Ka				10/01/24 19:22	1

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	mg/Kg			10/02/24 03:10	1

Eurofins Midland

Lab Sample ID: 880-49106-8

Matrix: Solid

mg/Kg

Client: Crain Environmental Job ID: 880-49106-1 Project/Site: Chem State #3 SDG: Lea Co., NM

Client Sample ID: S-8 (0-4') Lab Sample ID: 880-49106-8 Date Collected: 09/26/24 15:00 Matrix: Solid Date Received: 09/27/24 13:45

Sample Depth: 0-4'

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 20:31	10/02/24 03:10	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		09/29/24 20:31	10/02/24 03:10	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		09/29/24 20:31	10/02/24 03:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				09/29/24 20:31	10/02/24 03:10	1
o-Terphenyl	95		70 - 130				09/29/24 20:31	10/02/24 03:10	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e						
Analyte	Pocult	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: S-9 (0-4') Lab Sample ID: 880-49106-9 Date Collected: 09/26/24 15:05 Matrix: Solid

5.02

<5.02 U

Date Received: 09/27/24 13:45

Sample Depth: 0-4'

Chloride

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/30/24 11:06	10/01/24 19:42	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/30/24 11:06	10/01/24 19:42	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/30/24 11:06	10/01/24 19:42	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/30/24 11:06	10/01/24 19:42	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/30/24 11:06	10/01/24 19:42	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/30/24 11:06	10/01/24 19:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				09/30/24 11:06	10/01/24 19:42	1
1,4-Difluorobenzene (Surr)	104		70 - 130				09/30/24 11:06	10/01/24 19:42	1
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			10/01/24 19:42	1
Method: SW846 8015 NM - Diese	I Range Organ	ics (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 03:24	1
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/29/24 20:31	10/02/24 03:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/29/24 20:31	10/02/24 03:24	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/29/24 20:31	10/02/24 03:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130				09/29/24 20:31	10/02/24 03:24	1

Eurofins Midland

10/03/24 04:27

Client Sample Results

Client: Crain Environmental

Project/Site: Chem State #3

Job ID: 880-49106-1

SDG: Lea Co., NM

ODO: Eca oo., NW

Client Sample ID: S-9 (0-4')
Date Collected: 09/26/24 15:05

Lab Sample ID: 880-49106-9

Date Received: 09/27/24 13:45

Matrix: Solid

Sample Depth: 0-4'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble											
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	<5.01	U	5.01		mg/Kg			10/03/24 04:33	1		

5

A

Q

4.0

11

13

14

Surrogate Summary

Client: Crain Environmental Job ID: 880-49106-1 Project/Site: Chem State #3 SDG: Lea Co., NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-49106-1	S-1 (4.1')	104	103	
880-49106-2	S-2 (4.1')	109	105	
880-49106-3	S-3 (4.1')	106	102	
880-49106-4	S-4 (0-4')	107	103	
880-49106-5	S-5 (0-4')	111	100	
880-49106-6	S-6 (0-4')	104	104	
880-49106-7	S-7 (0-4')	107	103	
880-49106-8	S-8 (0-4')	107	101	
880-49106-9	S-9 (0-4')	106	104	
LCS 880-92072/1-A	Lab Control Sample	100	97	
LCS 880-92118/1-A	Lab Control Sample	105	100	
LCSD 880-92072/2-A	Lab Control Sample Dup	99	99	
LCSD 880-92118/2-A	Lab Control Sample Dup	101	103	
MB 880-92072/5-A	Method Blank	107	96	
MB 880-92118/5-A	Method Blank	103	99	
Surrogate Legend				
BFB = 4-Bromofluorober	nzene (Surr)			

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-49106-1	S-1 (4.1')	91	92	
880-49106-2	S-2 (4.1')	85	85	
880-49106-3	S-3 (4.1')	92	88	
880-49106-4	S-4 (0-4')	101	97	
880-49106-5	S-5 (0-4')	99	95	
880-49106-6	S-6 (0-4')	88	88	
880-49106-7	S-7 (0-4')	101	97	
880-49106-8	S-8 (0-4')	99	95	
880-49106-9	S-9 (0-4')	103	103	
LCS 880-92041/2-A	Lab Control Sample	112	110	
LCSD 880-92041/3-A	Lab Control Sample Dup	126	127	
	Method Blank	145 S1+	143 S1+	

OTPH = o-Terphenyl

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Released to Imaging: 12/17/2024 10:49:30 AM

Client: Crain Environmental Project/Site: Chem State #3

Job ID: 880-49106-1

SDG: Lea Co., NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-92072/5-A

Matrix: Solid Analysis Batch: 92059 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 92072

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/30/24 09:32	09/30/24 11:42	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/30/24 09:32	09/30/24 11:42	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/30/24 09:32	09/30/24 11:42	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/30/24 09:32	09/30/24 11:42	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/30/24 09:32	09/30/24 11:42	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/30/24 09:32	09/30/24 11:42	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	09/30/24 09:3	09/30/24 11:42	1
1,4-Difluorobenzene (Surr)	96		70 - 130	09/30/24 09:3	2 09/30/24 11:42	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 92072

Prep Type: Total/NA

Prep Batch: 92072

35

Lab Sample ID: LCS 880-92072/1-A **Matrix: Solid** Analysis Batch: 92059

	Бріке	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.08366		mg/Kg		84	70 - 130	
Toluene	0.100	0.07872		mg/Kg		79	70 - 130	
Ethylbenzene	0.100	0.07943		mg/Kg		79	70 - 130	
m-Xylene & p-Xylene	0.200	0.1717		mg/Kg		86	70 - 130	
o-Xylene	0.100	0.08510		mg/Kg		85	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	100	70 - 130
1,4-Difluorobenzene (Surr)	97	70 - 130

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene

o-Xylene

Analysis Batch: 92059

Lab Sample ID: LCSD 880-92072/2-A

Spike	LCSD	LCSD				%Rec		RPD	
Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
 0.100	0.09213		mg/Kg		92	70 - 130	10	35	
0.100	0.08661		mg/Kg		87	70 - 130	10	35	
0.100	0.08663		mg/Kg		87	70 - 130	9	35	
0.200	0.1871		mg/Kg		94	70 - 130	9	35	

mg/Kg

LCSD LCSD

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

Lab Sample ID: MB 880-92118/5-A

Matrix: Solid

Analysis Batch: 92214

Client Sample ID: Method Blank

70 - 130

Prep Type: Total/NA

Prep Batch: 92118

MB MB Result Qualifier Analyte RL MDL Unit Prepared Analyzed Dil Fac <0.00200 U 0.00200 10/01/24 13:07 Benzene mg/Kg 09/30/24 11:06 Toluene <0.00200 U 0.00200 mg/Kg 09/30/24 11:06 10/01/24 13:07

0.100

0.09345

QC Sample Results

Client: Crain Environmental Job ID: 880-49106-1 Project/Site: Chem State #3 SDG: Lea Co., NM

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

Lab Sample ID: MB 880-92118/5-A

Matrix: Solid

Analyte

Analysis Batch: 92214

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 92118

MB MB Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac

Ethylbenzene <0.00200 U 0.00200 09/30/24 11:06 10/01/24 13:07 mg/Kg m-Xylene & p-Xylene <0.00400 U 0.00400 mg/Kg 09/30/24 11:06 10/01/24 13:07 10/01/24 13:07 o-Xylene <0.00200 U 0.00200 09/30/24 11:06 mg/Kg Xylenes, Total <0.00400 U 0.00400 mg/Kg 09/30/24 11:06 10/01/24 13:07

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepa	ared	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

Client Sample ID: Lab Control Sample Lab Sample ID: LCS 880-92118/1-A **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 92214

Analysis Batch: 92214					Prep Batch: 92118			
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%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	
o-Xvlene	0.100	0.09428		ma/Ka		94	70 - 130	

LCS LCS

Surrogate	%Recovery 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 9	Sample	ו יחו	ah Conti	rol Sami	nla Dun

Prep Type: Total/NA

Prep Batch: 92118

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	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

LCSD LCSD

Surrogate	%Recovery	Quaimer	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

Released to Imaging: 12/17/2024 10:49:30 AM

Matrix: Solid

Analysis Batch: 92279

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

Prep Batch: 92041

мв мв Result Qualifier MDL Unit Prepared <50.0 U 50.0 09/29/24 20:31 10/01/24 21:43 Gasoline Range Organics mg/Kg (GRO)-C6-C10

Client: Crain Environmental Job ID: 880-49106-1 Project/Site: Chem State #3 SDG: Lea Co., NM

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

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

	IND	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
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

MB MB

MR MR

Surrogate	%Recovery	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 Client Sample ID: Lab Control Sample

Matrix: Solid Analysis Batch: 92279

Prep Type: Total/NA Prep Batch: 92041 LCS LCS Spike

Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 974.6 97 70 - 130 mg/Kg (GRO)-C6-C10 1000 1135 Diesel Range Organics (Over mg/Kg 113 70 - 130C10-C28)

LCS LCS

Surrogate	%Recovery	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

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	1086		mg/Kg		109	70 - 130	11	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	1297		mg/Kg		130	70 - 130	13	20
C10-C28)									

LCSD LCSD Surrogate %Recovery Qualifier Limits

1-Chlorooctane 126 70 - 130 o-Terphenyl 127 70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-92145/1-A

Matrix: Solid

Analysis Batch: 92250

Client Sample ID: Method Blank

Prep Type: Soluble

мв мв Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Chloride <5.00 U 5.00 10/03/24 02:51 mg/Kg

Lab Sample ID: LCSD 880-92145/3-A

Matrix: Solid

QC Sample Results

Client: Crain Environmental Job ID: 880-49106-1 Project/Site: Chem State #3 SDG: Lea Co., NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-92145/2-A **Client Sample ID: Lab Control Sample Matrix: Solid** Analysis Batch: 92250

Prep Type: Soluble

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits Chloride 250 268.1 mg/Kg 107 90 - 110

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analysis Batch: 92250 Spike LCSD LCSD %Rec RPD Added Result Qualifier Limits RPD Limit Analyte Unit D %Rec Chloride 250 264.0 mg/Kg 106 90 - 110 2 20

QC Association Summary

Client: Crain Environmental Job ID: 880-49106-1 Project/Site: Chem State #3 SDG: Lea Co., NM

GC VOA

Analysis Batch: 92059

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49106-1	S-1 (4.1')	Total/NA	Solid	8021B	92072
MB 880-92072/5-A	Method Blank	Total/NA	Solid	8021B	92072
LCS 880-92072/1-A	Lab Control Sample	Total/NA	Solid	8021B	92072
LCSD 880-92072/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	92072

Prep Batch: 92072

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep Batch	n
880-49106-1	S-1 (4.1')	Total/NA	Solid	5035	_
MB 880-92072/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-92072/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-92072/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 92118

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49106-2	S-2 (4.1')	Total/NA	Solid	5035	
880-49106-3	S-3 (4.1')	Total/NA	Solid	5035	
880-49106-4	S-4 (0-4')	Total/NA	Solid	5035	
880-49106-5	S-5 (0-4')	Total/NA	Solid	5035	
880-49106-6	S-6 (0-4')	Total/NA	Solid	5035	
880-49106-7	S-7 (0-4')	Total/NA	Solid	5035	
880-49106-8	S-8 (0-4')	Total/NA	Solid	5035	
880-49106-9	S-9 (0-4')	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
880-49106-2	S-2 (4.1')	Total/NA	Solid	8021B	92118
880-49106-3	S-3 (4.1')	Total/NA	Solid	8021B	92118
880-49106-4	S-4 (0-4')	Total/NA	Solid	8021B	92118
880-49106-5	S-5 (0-4')	Total/NA	Solid	8021B	92118
880-49106-6	S-6 (0-4')	Total/NA	Solid	8021B	92118
880-49106-7	S-7 (0-4')	Total/NA	Solid	8021B	92118 92118
880-49106-8	S-8 (0-4')	Total/NA	Solid	8021B	
880-49106-9	S-9 (0-4')	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: 92253

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49106-1	S-1 (4.1')	Total/NA	Solid	Total BTEX	
880-49106-2	S-2 (4.1')	Total/NA	Solid	Total BTEX	
880-49106-3	S-3 (4.1')	Total/NA	Solid	Total BTEX	
880-49106-4	S-4 (0-4')	Total/NA	Solid	Total BTEX	
880-49106-5	S-5 (0-4')	Total/NA	Solid	Total BTEX	
880-49106-6	S-6 (0-4')	Total/NA	Solid	Total BTEX	
880-49106-7	S-7 (0-4')	Total/NA	Solid	Total BTEX	
880-49106-8	S-8 (0-4')	Total/NA	Solid	Total BTEX	
880-49106-9	S-9 (0-4')	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Crain Environmental Job ID: 880-49106-1
Project/Site: Chem State #3 SDG: Lea Co., NM

GC Semi VOA

Prep Batch: 92041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49106-1	S-1 (4.1')	Total/NA	Solid	8015NM Prep	
880-49106-2	S-2 (4.1')	Total/NA	Solid	8015NM Prep	
880-49106-3	S-3 (4.1')	Total/NA	Solid	8015NM Prep	
880-49106-4	S-4 (0-4')	Total/NA	Solid	8015NM Prep	
880-49106-5	S-5 (0-4')	Total/NA	Solid	8015NM Prep	
880-49106-6	S-6 (0-4')	Total/NA	Solid	8015NM Prep	
880-49106-7	S-7 (0-4')	Total/NA	Solid	8015NM Prep	
880-49106-8	S-8 (0-4')	Total/NA	Solid	8015NM Prep	
880-49106-9	S-9 (0-4')	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	

Analysis Batch: 92279

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49106-1	S-1 (4.1')	Total/NA	Solid	8015B NM	92041
880-49106-2	S-2 (4.1')	Total/NA	Solid	8015B NM	92041
880-49106-3	S-3 (4.1')	Total/NA	Solid	8015B NM	92041
880-49106-4	S-4 (0-4')	Total/NA	Solid	8015B NM	92041
880-49106-5	S-5 (0-4')	Total/NA	Solid	8015B NM	92041
880-49106-6	S-6 (0-4')	Total/NA	Solid	8015B NM	92041
880-49106-7	S-7 (0-4')	Total/NA	Solid	8015B NM	92041
880-49106-8	S-8 (0-4')	Total/NA	Solid	8015B NM	92041
880-49106-9	S-9 (0-4')	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

Analysis Batch: 92412

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49106-1	S-1 (4.1')	Total/NA	Solid	8015 NM	
880-49106-2	S-2 (4.1')	Total/NA	Solid	8015 NM	
880-49106-3	S-3 (4.1')	Total/NA	Solid	8015 NM	
880-49106-4	S-4 (0-4')	Total/NA	Solid	8015 NM	
880-49106-5	S-5 (0-4')	Total/NA	Solid	8015 NM	
880-49106-6	S-6 (0-4')	Total/NA	Solid	8015 NM	
880-49106-7	S-7 (0-4')	Total/NA	Solid	8015 NM	
880-49106-8	S-8 (0-4')	Total/NA	Solid	8015 NM	
880-49106-9	S-9 (0-4')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 92145

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49106-1	S-1 (4.1')	Soluble	Solid	DI Leach	
880-49106-2	S-2 (4.1')	Soluble	Solid	DI Leach	
880-49106-3	S-3 (4.1')	Soluble	Solid	DI Leach	
880-49106-4	S-4 (0-4')	Soluble	Solid	DI Leach	
880-49106-5	S-5 (0-4')	Soluble	Solid	DI Leach	
880-49106-6	S-6 (0-4')	Soluble	Solid	DI Leach	
880-49106-7	S-7 (0-4')	Soluble	Solid	DI Leach	

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Page 20 of 29

2

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12

14

0/2/2024

QC Association Summary

Client: Crain Environmental Job ID: 880-49106-1
Project/Site: Chem State #3 SDG: Lea Co., NM

HPLC/IC (Continued)

Leach Batch: 92145 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49106-8	S-8 (0-4')	Soluble	Solid	DI Leach	
880-49106-9	S-9 (0-4')	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	

Analysis Batch: 92250

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49106-1	S-1 (4.1')	Soluble	Solid	300.0	92145
880-49106-2	S-2 (4.1')	Soluble	Solid	300.0	92145
880-49106-3	S-3 (4.1')	Soluble	Solid	300.0	92145
880-49106-4	S-4 (0-4')	Soluble	Solid	300.0	92145
880-49106-5	S-5 (0-4')	Soluble	Solid	300.0	92145
880-49106-6	S-6 (0-4')	Soluble	Solid	300.0	92145
880-49106-7	S-7 (0-4')	Soluble	Solid	300.0	92145
880-49106-8	S-8 (0-4')	Soluble	Solid	300.0	92145
880-49106-9	S-9 (0-4')	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

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Lab Sample ID: 880-49106-2

Matrix: Solid

EET MID

Matrix: Solid

Lab Sample ID: 880-49106-1 Matrix: Solid

Client Sample ID: S-1 (4.1')

Client: Crain Environmental Project/Site: Chem State #3

Date Collected: 09/26/24 14:25 Date Received: 09/27/24 13:45

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA Prep 5035 5.02 g 5 mL 92072 09/30/24 09:32 MNR **EET MID** Total/NA Analysis 8021B 1 5 mL 5 mL 92059 09/30/24 20:30 MNR EET MID Total/NA Analysis Total BTEX 92253 09/30/24 20:30 SM **EET MID** Total/NA Analysis 8015 NM 1 92412 10/02/24 01:12 SM **EET MID** 92041 09/29/24 20:31 EET MID Total/NA 8015NM Prep 10.00 g 10 00 ml FΙ Prep Total/NA Analysis 8015B NM 1 uL 1 uL 92279 10/02/24 01:12 TKC **EET MID** 5.01 g 50 mL 92145 09/30/24 12:52 SA Soluble Leach DI Leach FFT MID Soluble Analysis 300.0 50 mL 50 mL 92250 10/03/24 03:29 СН **EET MID**

Client Sample ID: S-2 (4.1')

Date Collected: 09/26/24 14:30 Date Received: 09/27/24 13:45

Dil Initial Final Batch Batch Batch Prepared Prep Type Туре Method Factor Amount Amount Number or Analyzed Lab Run **Analyst** Total/NA Prep 5035 5 mL 92118 09/30/24 11:06 MNR EET MID 5.00 g 8021B Total/NA Analysis 1 5 mL 5 mL 92214 10/01/24 16:17 MNR **EET MID** Total/NA Total BTEX 92253 Analysis 10/01/24 16:17 SM **EET MID** 1 Total/NA Analysis 8015 NM 92412 10/02/24 01:42 SM **EET MID** Total/NA 8015NM Prep 10.06 g 10.00 mL 92041 09/29/24 20:31 FΙ **EET MID** Prep Total/NA Analysis 8015B NM 1 uL 1 uL 92279 10/02/24 01:42 TKC **EET MID** 09/30/24 12:52 Soluble DI Leach 5.02 g 50 mL 92145 SA **EET MID** Leach

50 mL

50 mL

92250

10/03/24 03:36

СН

Lab Sample ID: 880-49106-3

Lab Sample ID: 880-49106-4

Client Sample ID: S-3 (4.1')

Analysis

300.0

Soluble

Date Collected: 09/26/24 14:35 Date Received: 09/27/24 13:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type Type	Туре	Method Ru	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 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 16:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			92253	10/01/24 16:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			92412	10/02/24 01:56	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 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 01:56	TKC	EET MID
Soluble	Leach	DI Leach			5.01 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 03:42	CH	EET MID

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

Date Collected: 09/26/24 14:40 Date Received: 09/27/24 13:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	92118	09/30/24 11:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92214	10/01/24 18:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			92253	10/01/24 18:00	SM	EET MID

Eurofins Midland

Matrix: Solid

Lab Chronicle

Client: Crain Environmental
Project/Site: Chem State #3

Job ID: 880-49106-1 SDG: Lea Co., NM

Lab Sample ID: 880-49106-4

Matrix: Solid

Client Sample ID: S-4 (0-4')
Date Collected: 09/26/24 14:40

Date Received: 09/27/24 13:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			92412	10/02/24 02:11	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 02:11	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		1	50 mL	50 mL	92250	10/03/24 03:48	CH	EET MID

Client Sample ID: S-5 (0-4')

Date Collected: 09/26/24 14:45

Lab Sample ID: 880-49106-5

Matrix: Solid

Date Received: 09/27/24 13:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 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 18:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			92253	10/01/24 18:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			92412	10/02/24 02:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 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 02:25	TKC	EET MID
Soluble	Leach	DI Leach			5.03 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 04:08	CH	EET MID

Client Sample ID: S-6 (0-4')

Date Collected: 09/26/24 14:50

Lab Sample ID: 880-49106-6

Matrix: Solid

Date Received: 09/27/24 13:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 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 18:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			92253	10/01/24 18:41	SM	EET MID
Total/NA	Analysis	8015 NM		1			92412	10/02/24 02:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 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 02:40	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		1	50 mL	50 mL	92250	10/03/24 04:14	CH	EET MID

Client Sample ID: S-7 (0-4')

Lab Sample ID: 880-49106-7

Date Collected: 09/26/24 14:55 Date Received: 09/27/24 13:45

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	92118	09/30/24 11:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92214	10/01/24 19:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			92253	10/01/24 19:01	SM	EET MID
Total/NA	Analysis	8015 NM		1			92412	10/02/24 02:54	SM	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.02 g 1 uL	10.00 mL 1 uL	92041 92279	09/29/24 20:31 10/02/24 02:54	EL TKC	EET MID EET MID

Eurofins Midland

Matrix: Solid

3

5

7

9

1 4

13

Client: Crain Environmental

Date Collected: 09/26/24 14:55

Date Received: 09/27/24 13:45

Job ID: 880-49106-1 SDG: Lea Co., NM

Project/Site: Chem State #3 Client Sample ID: S-7 (0-4') Lab Sample ID: 880-49106-7

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 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 04:20	CH	EET MID

Client Sample ID: S-8 (0-4') Lab Sample ID: 880-49106-8

Matrix: Solid

Date Collected: 09/26/24 15:00 Date Received: 09/27/24 13:45

Date Received: 09/27/24 13:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	92118	09/30/24 11:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92214	10/01/24 19:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			92253	10/01/24 19:22	SM	EET MID
Total/NA	Analysis	8015 NM		1			92412	10/02/24 03:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 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 03:10	TKC	EET MID
Soluble	Leach	DI Leach			4.98 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 04:27	CH	EET MID

Client Sample ID: S-9 (0-4') Lab Sample ID: 880-49106-9 Date Collected: 09/26/24 15:05

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	92118	09/30/24 11:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92214	10/01/24 19:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			92253	10/01/24 19:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			92412	10/02/24 03:24	SM	EET MIC
Total/NA	Prep	8015NM Prep			10.01 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 03:24	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	92145	09/30/24 12:52	SA	EET MIC
Soluble	Analysis	300.0		1	50 mL	50 mL	92250	10/03/24 04:33	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Crain Environmental Job ID: 880-49106-1 Project/Site: Chem State #3 SDG: Lea Co., NM

Laboratory: Eurofins Midland

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

Authority	Progra	am	Identification Number	Expiration Date
Texas	NELAI	Р	T104704400	06-30-25
,	are included in this report, bu	it the laboratory is not certif	fied by the governing authority. This lis	t may include analytes
Analysis Method	Prep Method	Matrix	Analyte	
8015 NM		Solid	Total TPH	
Total BTEX		Solid	Total BTEX	

Method Summary

Client: Crain Environmental Project/Site: Chem State #3

Job ID: 880-49106-1 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 #3 Job ID: 880-49106-1

SDG: Lea Co., NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-49106-1	S-1 (4.1')	Solid	09/26/24 14:25	09/27/24 13:45	4.1'
880-49106-2	S-2 (4.1')	Solid	09/26/24 14:30	09/27/24 13:45	4.1'
880-49106-3	S-3 (4.1')	Solid	09/26/24 14:35	09/27/24 13:45	4.1'
880-49106-4	S-4 (0-4')	Solid	09/26/24 14:40	09/27/24 13:45	0-4'
880-49106-5	S-5 (0-4')	Solid	09/26/24 14:45	09/27/24 13:45	0-4'
880-49106-6	S-6 (0-4')	Solid	09/26/24 14:50	09/27/24 13:45	0-4'
880-49106-7	S-7 (0-4')	Solid	09/26/24 14:55	09/27/24 13:45	0-4'
880-49106-8	S-8 (0-4')	Solid	09/26/24 15:00	09/27/24 13:45	0-4'
880-49106-9	S-9 (0-4')	Solid	09/26/24 15:05	09/27/24 13:45	0-4'

Page

www.xenco.com

Date/Time

Received by: (Signature)

Relinquished by: (Signature)

Date/Time

1

2

3

4

7

9

11 12

13

14

880-491 06 Chain of Custody

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

Environment Testing

eurofins ...

Xenco

Company Name: Co	
Steel Colorest	Program: UST/PST PRP Brownfields RRC
The tangent of the state of the	State of Project: NM
Tumwher: (575) 441- 7244 Tum Around Tum	Reporting: Level Level PST/UST TRRP Level IV
thame:	Deliverables: EDD ☐ ADaPT ☐ Other:
## Control of the con	ANALYSIS REQUEST Preservative Codes
Custody Seals: Yes No N/A Temperature Reading: Sample Identification Matrix Sample Matrix Sample Matrix Mat	None: NO DI Water: H ₂ O
Tar starts the day received by the lab, if received by the lab, if received by 4:30pm	Cool: Cool MeOH: Me
Custody Seals:	HCL: HC HNO 3: HN
Temp Blank: Yes No Wet Ice: Yes No See Yes No Wet Ice: Yes No Wet Ice: Yes No Wet Ice: Yes No W/A Temperature Reading: See	H ₂ SO 4: H ₂ NaOH: Na
Yes No Thermometer ID: The State Yes No N/A Correction Factor: S S S S S S S S S	H ₃ PO ₄ : HP
Yes No (N/A) Correction Factor: 3 0	NaHSO 4: NABIS
Yes No (V/A) Temperature Reading:	Na ₂ S ₂ O ₃ : NaSO ₃
Corrected Temperature: S S S S S S S S S	Zn Acetate+NaOH: Zn
Matrix Date Time Depth Grabs # of Propertion	NaOH+Ascorbic Acid: SAPC
(4.1) 5 9120 1425 4]. (4.1) 1430 4]. (9.4) 1435 4]. (0.4) 1440 0.4 (0.4) 1445 0.4 (0.4) 1455 0.4	Sample Comments
(4.7) 1436 (4.7) 1435 (0-4) 1440 (0-4) 1445 (0-4) 1456	
(4.1) (0-4) (0-4) (0-4) (0-4) (0-4) (0-4)	
(0-4) 1440 (0-4) 1445 (0-4) 1455	
(0-4;) 1445 (0-4;) 1455	
(0.4;) 450 (0.4;) 455	
7 (0-4) 1455	
1600	
0000	

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 Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenzo, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenzo 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

Relinquished by: (Signature)

(Ling)

(Line)

Login Sample Receipt Checklist

Client: Crain Environmental Job Number: 880-49106-1 SDG Number: Lea Co., NM

Login Number: 49106 **List Source: Eurofins Midland**

List Number: 1

Creator: Rodriguez, Leticia

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



Appendix B: Photographic Documentation

Appendix B Chem State #3



View to E of marker and former well pad (10/25/23).



View to S of marker and former well pad (10/25/23).



View to SE of marker and former well pad (10/25/23).



View of sample S-2 collection (3/12/24).



View to NW of excavation (9/26/24).



View to N of excavation (9/26/24).



Appendix C: Waste Manifests



Ticket Number 106288 09/17/24 01:56 PM

GENERATOR

Generator: CAMBRIAN MANAGEMENT Generator Contact: PO BOX 272

MIDLAND, TX 79702 Phone No.: (432)620-9181 Lease: CHEM CTATE #4 Location: CHEM CTATE #4 Job Contact: CHRIS GADDY Phone Number: (000)000-0000

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:

WAST	E MA	ATER	IAL

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

OSGY A MORLER **Driver Signature**

C-138

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is:

RCRA Exempt:

listed above.

Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. (Gandy Marley, Inc. accepts certifications on a per month only basis.)

RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261-24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D,

as amended. The following documentation demonstrating the waste as non-hazardous is attached:

MSDS Information

RCRA Hazardous Waste Analysis

Other (Provide Description Below)

Emergency Non-Oilfield:

Emergency non-hazardous, non-oilfied waste that has been ordered by the Department of Public Safety. (The order, documentation of non-hazardous waste determination, and a description of the waste must accompany this form.)

Signature

Kimberly Murphy

Name

Name



Ticket Number 106698 09/26/24 01:05 PM

GENERATOR

Generator: CAMBRIAN MANAGEMENT Generator Contact:

PO BOX 272 MIDLAND, TX 79702 Phone No.: (432)620-9181 Lease: CHEM STATE #3 Location: CHEM STATE #3 Job Contact: CHRIS GADDY Phone Number: (000)000-0000

Email:

DISPOSAL FACILITY

Site Name/Permit No.: Commercial Landfarm (NM-711-1-0020) P.O. Box 1658 Roswell, NM 88202

Roswell, NM 88202 Office (575) 347-0434 Fax (575)347-0435 NORM Readings Taken: No Reading > 50 micro roentgens: No Pass the Paint Filter Test: No

Box Number:

	WASTE	MATERIAL	
--	-------	----------	--

Material

Quantity

Cell

OCD EXEMPT SOILS

20.00 YDS

LF

TRANSPORTER

Name: 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.

Sal mobiles

Driver Signature

C-138

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is:

RCRA Exempt:

Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. (Gandy Marley, Inc. accepts certifications on a per month only basis.)

RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261-24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached:

☐MSDS Information

RCRA Hazardous Waste Analysis

Other (Provide Description Below)

☐ Emergency Non-Oilfield:

Emergency non-hazardous, non-oilfied waste that has been ordered by the Department of Public Safety. (The order, documentation of non-hazardous waste determination, and a description of the waste must accompany this form.)

accompany uns form.)

Signature

Kimberly Murphy

Name

Name

Signature



Ticket Number 106724 09/26/24 04:00 PM

GENERATOR

Generator: CAMBRIAN MANAGEMENT Generator Contact: PO BOX 272 MIDLAND, TX 79702 Phone No.: (432)620-9181

Lease: CHEM STATE #3 Location: CHEM STATE #3 Job Contact: CHRIS GADDY Phone Number: (000)000-0000

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.

OS COV/ MASS

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

Partialy Murphy



Ticket Number 106683 09/26/24 10:18 AM

GENERATOR

Generator: CAMBRIAN MANAGEMENT Generator Contact: PO BOX 272 MIDLAND, TX 79702

Lease: CHEM STATE #3 Location: CHEM STATE #3 Job Contact: CHRIS GADDY Phone Number: (000)000-0000

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

Phone No.: (432)620-9181

NORM Readings Taken: No Reading > 50 micro roentgens: No Pass the Paint Filter Test: No

Box Number:

WAS	ΙE	MA	EK	AL	
-----	----	----	----	----	--

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.

VIC 1 1-0800

EDGEV	MONWOOD	
Drive	r Signature	_

C-138

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is:

RCRA Exempt:

Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. (Gandy Marley, Inc. accepts certifications on a per month only basis.)

RCRA NON-EXEMPT:

MSDS Information

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261-24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached:

RCRA Hazardous Waste Analysis

Other (Provide Description Below)

☐ Emergency Non-Oilfield:

Emergency non-hazardous, non-oilfied waste that has been ordered by the Department of Public Safety. (The order, documentation of non-hazardous waste determination, and a description of the waste must accompany this form.)

Kimberly Murphy Name

Name

Signature

Minc.	7188	13			2
		GENERAT	OR	and the second s	-
Generator Name	Virtues 1	الدادوا	Lease/Well _	Prigin	
Address			Name & No.		
			County		
City, State, Zip					
Phone No.				No	
Company Man			-		
TRUCK TIME S	STAMP	DISPOSAL FA	CILITY	RECEIVING AREA	
IN: 106Am OUT:				Name/No. Landfill	
Site Name / Permit No. Commerce		9)	Phone No. 5	75-347-0434	
	1658 Roswell, NM 88202		Prione No. <u>o</u>	75-347-0434	
Address P.O. Box NORM Readings Taken?		NO ,	If VES was re	eading > 50 micro roentgens? (Circle One) YES	NO
Pass the Paint Filter Tes	*	NO	ii (LO, Was it	eading > 30 micro roomigens: (Girolo Orlo)	140
r abb the r ant r ites rec	K. (011010 0110) 120	TRANSPO	RTER		
Transporter's Name	138 14 18 W				
Address				31	
7,00,000					
Phone No.					
				and delivered without incident to the disposal facility list	
Thereby certify that the above hame	a maiorial(a) mao, maio pro-		0/3//	SU ISCHEN A MINI	- /
SHIPMENT DATE	DRIVER'S SIGNATUR	DC	DELIVE	RY DATE DRIVER'S SIGNATURE	115-1
Water Based Cuttings		ut /Jet Out			
Gas Plant Waste					
WASTE GENERATION PROCESS:	Drilling	☐ Completion	□ F	Production	
		mpt E&P Waste/Service			
				(TCLP), ignition, corrosiveness, and reactivity.)	
Non-Exempt Other:			*Please selec	ot from Non-Exempt Waste List on back	
QUANTITY: —	B - Barrels	L - Lio	quid —	Y - Yards E - Each	
		<u>C-138</u>	3		
				tal Protection Agency's July 1988 regulatory determination,	the abov
described waste load is (Check the app	propriate classification)	Recovery Act (RCRA) and the	e US Environment	tal Protection Agency's July 1988 regulatory determination,	
described waste load is (Check the application of the control of t	propriate classification) ii field wastes generated fron ccepts certifications on a per iil field waste which is non-ha- soulations, 40 CFR 261,21-26	Recovery Act (RCRA) and the moil and gas exploration and month only basis.) azardous that does not exceed 1.24, or listed hazardous was	e US Environment d production open ed the minimum s te as defined by 4	ations and are not mixed with non-exempt waste. (Gandy I standards for waste hazardous by characteristics establishes to CFR, part 261, subpart D, as amended. The following doc	Marley, Inc
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Ticket Number 106753 09/27/24 01:07 PM

GENERATOR

Generator: CAMBRIAN MANAGEMENT Generator Contact: PO BOX 272

MIDLAND, TX 79702 Phone No.: (432)620-9181 Lease: CHEM STATE #3 Location: CHEM STATE #3 Job Contact: CHRIS GADDY Phone Number: (000)000-0000

Email:

DIS	SPO	SAI	L FA	CIL	ITY

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:

WAS	TEI	TAN	ER	IAL
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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.

> War A many **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.)

Signature

Kimberly Murphy

Name

Name



Ticket Number 106742 09/27/24 09:55 AM

GENERATOR

Generator: CAMBRIAN MANAGEMENT Generator Contact: PO BOX 272 MIDLAND, TX 79702 Phone No.: (432)620-9181 Lease: CHEM STATE #3 Location: CHEM STATE #3 Job Contact: CHRIS GADDY Phone Number: (000)000-0000

.

DISPOSAL FACILITY

Site Name/Permit No.: Commercial Landfarm (NM-711-1-0020) P.O. Box 1658 Roswell, NM 88202

Roswell, NM 88202 Office (575) 347-0434 Fax (575)347-0435 NORM Readings Taken: No Reading > 50 micro roentgens: No Pass the Paint Filter Test: No Box Number:

WASTE MATERIAL

TRANSPORTER

Material

Quantity

Cell

OCD EXEMPT SOILS

20.00 YDS

LF

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

Quay of morates

Driver Signature

C-138

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is:

RCRA Exempt:

listed above.

Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. (Gandy Marley, Inc. accepts certifications on a per month only basis.)

☐RCRA NON-EXEMPT:

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261-24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached:

■ MSDS Information

☐RCRA Hazardous Waste Analysis

Other (Provide Description Below)

■Emergency Non-Oilfield:

Emergency non-hazardous, non-oilfied waste that has been ordered by the Department of Public Safety. (The order, documentation of non-hazardous waste determination, and a description of the waste must accompany this form.)

Name

Signature

Kimberly Murphy

Name

Kurbuly Murphy
Signature

GV inc.

NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST / DISPOSAL TICKET

		GENER		Fig. 1	
Generator Name	MARKELL	LARIE	Lease/Well	igin	
Address		4	Name & No		-
				-	
City, State, Zip					
Phone No.				0	
Company Man			9	J	
Company Wan			AFE/FO NO		
TRUCK TII	ME STAMP	DISPOSAL	FACILITY	RECEIVING AREA	
IN: LO Ani O	UT:			Name/No. Landfill	
Site Name / Permit No. Com	mercial Landfill (NM-01-00	19)	Phone No. 57	5-347-0434	
	Box 1658 Roswell, NM 8820		Thone No.	k	
7 100	aken? (Circle One) YES	NO	If YES, was rea	ading > 50 micro roentgens? (Circle One)	YES NO
	er Test? (Circle One) YES	NO			
		TRANSPO	ORTER		
Transporter's Name	4 PINILL		Print Name		
Address					
Phone No.			Phone No.		
			s site listed above an	d delivered without incident to the disposal fac	cility listed below.
			CIDI	24 MANA 8	totales
SHIPMENT DATE	DRIVER'S SIGNATI	URE	DELIVERY	DATE DRIVER'S SIGNATU	JRE
Exempt	E&P Waste/Service Identifi	cation and Amount (Pla	ce volume next to	waste type in barrels or cubic yards)	
Oil Based Muds		Fluid/Flowback		OTHER EXEMPT WASTE	
Oil Based Cuttings		Vater (Non-Injectable)			
Water Based Muds		ine Water/Waste			
Water Based Cuttings	Cement Wa		1	OTHER NON-EXEMPT WASTE	
Produced Formation Solids Tank Bottoms	Truck wash	out /Jet Out		STILL THE CHEMICAL STATE OF THE	
E&P Contaminated Soil					
Gas Plant Waste					
WASTE GENERATION PROCES	S: Drilling	□ Completion	□ Pr	oduction	es
		empt E&P Waste/Service			
(All non-e	xempt E&P waste must be analyz	zed and be below the thresh	old 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
		<u>C-13</u>	38		
I hereby certify that according to	the Resource Conservation and	Recovery Act (RCRA) and	the US Environmenta	Protection Agency's July 1988 regulatory determ	nination, the above
described waste load is (Check th		ricoordy riot (not by and	and de Entriesimonia	, ottobio	•
RCRA EXEMPT:	Oil field wastes generated fro accepts certifications on a pe		and production operat	ions and are not mixed with non-exempt waste. (Gandy Marley, Inc.
RCRA NON-EXEMPT:	regulations, 40 CFR 261,21-2	261.24, or listed hazardous w	aste as defined by 40	andards for waste hazardous by characteristics es CFR, part 261, subpart D, as amended. The follow	
	demonstrating the waste as r				D. Lauri
☐ MSDS Inf	ormation	RCRA Hazardou	us Waste Analysis	Other (Provide Description	Below)
		20-14		- American Application of the Control of the Contro	ion of a continue to
EMERGENCY NON-OILFIEL	 Emergency non-hazardous, r ous waste determination and 			partment of Public Safety. (The order, documental form.)	ion of non-hazard-
		, , , , , , , , , , , , , , , , , , , ,	,,		
	OFFICE CLOSE STATE		-		
(PRINT) AUTHORIZED A	GENTS SIGNATURE	DAT	E	SIGNATURE	

		GENERA				
Generator Name	MBILAN		Location of O	rigin	5/9/2 4 3	3
Address						
City, State, Zip						
Company Man	- 175 cc 14		AFE/PO No			
57 3- 1	ME STAMP	DISPOSAL F	ACILITY		RECEIVING AREA	
IN: O	UT:			Name/No. La	andfill	
Site Name / Permit No. Com	nmercial Landfill (NM-01-001	19)	Phone No. 5	75-347-0434		
	Box 1658 Roswell, NM 8820					
1001000	aken? (Circle One) YES	NO	If YES, was re	eading > 50 micro ro	pentgens? (Circle One)	ES NO
	er Test? (Circle One) YES	NO				
	ad	TRANSPO	RTER			
Transporter's Name	Prim			(21340)		
Address	e e		Truck No	H 1		
Phone No.						
I hereby certify that the above r		cked up at the Generator's				listed below
Thoroby cortiny that the above i	amod material(e) tractitore pre	ond up at the denotator of	9- 2-1-	50 16	Trans.	W 5/1/2
SHIPMENT DATE	DRIVER'S SIGNATU	IRE	DELIVER	RY DATE	DRIVER'S SIGNATURE	
Oil Based Muds Oil Based Cuttings	Produced W	Fluid/Flowback Vater (Non-Injectable)	e volume next to	OTHER EXEM		
Oil Based Muds Oil Based Cuttings Water Based Muds Water Based Cuttings Produced Formation Solids Tank Bottoms E&P Contaminated Soil	Completion Produced W Gathering Li Cement Wat	Fluid/Flowback Vater (Non-Injectable) ine Water/Waste iter out /Jet Out		OTHER EXEMI		
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Oil Based Muds Oil Based Cuttings Water Based Muds Water Based Cuttings Produced Formation Solids Tank Bottoms E&P Contaminated Soil Gas Plant Waste WASTE GENERATION PROCES: (All non-e: Non-Exempt Other: QUANTITY: I hereby certify that according to described waste load is (Check the contaminated Soil) RCRA EXEMPT: RCRA NON-EXEMPT:	Completion Produced W Gathering Li Cement War Truck Washe Trash & Deb S: Drilling Non-Exe Exempt E&P waste must be analyz B - Barrels of the Resource Conservation and the appropriate classification) Oil field wastes generated fro accepts certifications on a per Oil field waste which is non-regulations, 40 CFR 261.21-20 demonstrating the waste as information D: Emergency non-hazardous, in	Fluid/Flowback Vater (Non-Injectable) ine Water/Waste iter out /Jet Out oris Completion empt E&P Waste/Service zed and be below the thresho L - Li G-13 Recovery Act (RCRA) and the orn oil and gas exploration and er month only basis.) hazardous that does not exce 161.24, or listed hazardous wa non-hazardous is attached. (Co	Please selectiquid Be use Environmental and production operated the minimum state as defined by 40 theck the appropriate waste Analysis an ordered by the D	OTHER EXEMI OTHER NON-E OTHER	EXEMPT WASTE Gathering Lines siveness, and reactivity.) aste List on back E - Ea July 1988 regulatory determinated with non-exempt waste. (Gandardous by characteristics establiant D, as amended. The following of Other (Provide Description Belo	dy Marley, Indicate the state of the state o
Oil Based Muds Oil Based Cuttings Water Based Muds Water Based Muds Water Based Cuttings Produced Formation Solids Tank Bottoms E&P Contaminated Soil Gas Plant Waste WASTE GENERATION PROCES: (All non-e: Non-Exempt Other: QUANTITY: I hereby certify that according to described waste load is (Check the Check the Ch	Completion Produced W Gathering Li Cement War Truck Washe Trash & Deb S: Drilling Non-Exe exempt E&P waste must be analyz B - Barrels of the Resource Conservation and the appropriate classification) Oil field wastes generated fro accepts certifications on a pe Oil field waste which is non-regulations, 40 CFR 261.21-20 demonstrating the waste as necessary.	Fluid/Flowback Vater (Non-Injectable) ine Water/Waste iter out /Jet Out oris Completion empt E&P Waste/Service zed and be below the thresho L - Li G-13 Recovery Act (RCRA) and the orn oil and gas exploration and er month only basis.) hazardous that does not exce 161.24, or listed hazardous wa non-hazardous is attached. (Co	Please selectiquid Be use Environmental and production operated the minimum state as defined by 40 theck the appropriate waste Analysis an ordered by the D	OTHER EXEMI OTHER NON-E OTHER	EXEMPT WASTE Gathering Lines siveness, and reactivity.) aste List on back E - Ea July 1988 regulatory determinated with non-exempt waste. (Gandardous by characteristics establiant D, as amended. The following of Other (Provide Description Belo	ion, the abo dy Marley, Ir Ished in RCI documentati
Oil Based Muds Oil Based Cuttings Water Based Muds Water Based Muds Water Based Cuttings Produced Formation Solids Tank Bottoms E&P Contaminated Soil Gas Plant Waste WASTE GENERATION PROCES: (All non-e: Non-Exempt Other: QUANTITY: I hereby certify that according to described waste load is (Check the process of the pr	Completion Produced W Gathering Li Cement War Truck Washe Trash & Deb S: Drilling Non-Exe Exempt E&P waste must be analyz B - Barrels of the Resource Conservation and the appropriate classification) Oil field wastes generated fro accepts certifications on a per Oil field waste which is non-regulations, 40 CFR 261.21-20 demonstrating the waste as information D: Emergency non-hazardous, in	Fluid/Flowback Vater (Non-Injectable) ine Water/Waste iter out /Jet Out oris Completion empt E&P Waste/Service zed and be below the thresho L - Li G-13 Recovery Act (RCRA) and the orn oil and gas exploration and er month only basis.) hazardous that does not exce 161.24, or listed hazardous wa non-hazardous is attached. (Co	Please selectiquid Be use Environmental and production operated the minimum state as defined by 40 theck the appropriate waste Analysis an ordered by the D	OTHER EXEMI OTHER NON-E OTHER	EXEMPT WASTE Gathering Lines siveness, and reactivity.) aste List on back E - Ea July 1988 regulatory determinated with non-exempt waste. (Gandardous by characteristics establiant D, as amended. The following of Other (Provide Description Belo	dy Marley, Indicate the state of the state o



GENERATOR

Generator Name	1.5		Location of Orig		
Address			Name & No		
City, State, Zip					
Phone No.					
Company Man			9		
Company Wall			AI DI O 140.		
TRUCK TIME S	TAMP	DISPOSAL F	ACILITY	REC	EIVING AREA
IN:OUT:_				Name/No. Landfill	
Site Name / Permit No. Commercia	ial Landfill (NM-01-0019)	Phone No. 575	-347-0434	
	658 Roswell, NM 88202		Thomas To.		
NORM Readings Taken?		NO	If YES, was read	ding > 50 micro roentger	ns? (Circle One) YES NO
Pass the Paint Filter Test?	? (Circle One) YES	TRANSPO	RTFR		
Transporter's Name		THANOFO			
Address					
Address					4
Dhara Na					
Phone No			1		
Thereby certify that the above hamed	material(s) wastwelle picke	ed up at the deficiator 3 3	ite iisted above and	denvered without melder	to the disposal facility fished below.
SHIPMENT DATE	DRIVER'S SIGNATUR	E	DELIVERY	DATE	DRIVER'S SIGNATURE
	Waste/Service Identifica		o volume next to	waste type in hamels o	r cubic varde)
			e volume next to		
Oil Based Muds Oil Based Cuttings	Completion Flu Produced Wat	ter (Non-Injectable)		OTHER EXEMPT WAS	<u> </u>
	Gathering Line				
	Cement Water			OTHER MONE SYEMS	TWACTE
	Truck Washou			OTHER NON-EXEMP	I WASTE
Tank Bottoms E&P Contaminated Soil	Trash & Debris	3	-		
Gas Plant Waste					
WASTE GENERATION PROCESS:	Drilling	□ Completion	□ Pro	duction	☐ Gathering Lines
	Non-Exem	pt E&P Waste/Service	Identification and	d Amount	
(All non-exempt I	E&P waste must be analyzed	and be below the threshold	d limits for toxicity (T	CLP), ignition, corrosiveness	s, and reactivity.)
Non-Exempt Other:			*Please select fi	rom Non-Exempt Waste List	on back
QUANTITY:	B - Barrels	L - Li	quid	Y - Yards	E - Each
		C-138	3		
I hereby certify that according to the Redescribed waste load is (Check the approximation)		ecovery Act (RCRA) and th	e US Environmental	Protection Agency's July 19	J88 regulatory determination, the above
			d production operation	ons and are not mixed with	non-exempt waste. (Gandy Marley, Inc.
	cepts certifications on a per n		and the partners are	adordo for wests have	by observatoriation antablished in CODA
regi	ulations, 40 CFR 261, 21-261	.24, or listed hazardous was	ste as defined by 40 (CFR, part 261, subpart D, as	by characteristics established in RCRA amended. The following documentation
den	monstrating the waste as nor	n-hazardous is attached. (Cl	heck the appropriate	items as provided.)	
☐ MSDS Information	on	RCRA Hazardous	Waste Analysis	☐ Other	r (Provide Description Below)
☐ EMERGENCY NON-OILFIELD: Em	nergency non-hazardous, non	n-oilfield waste that has bee	n ordered by the Dep	partment of Public Safety. (T	he order, documentation of non-hazard-
ous	s waste determination and a	description of the waste mu	ast accompany this ic	2)	
(PRINT) AUTHORIZED AGENTS	SIGNATURE	DATE			SIGNATURE
	2.74				
	- 15-	6/-7		MI	
NAME (PRINT)	DAT	E	TI	TLE	SIGNATURE
Released to Imaging: 12/17/20	124 10:49:30 AM				SUPERIOR PRINTING SERVICE, INC.



Ticket Number 106309 09/17/24 04:54 PM

GENERATOR

Generator: CAMBRIAN MANAGEMENT Generator Contact: PO BOX 272 MIDLAND, TX 79702 Phone No.: (432)620-9181

Lease: CHEM CTATE #4 Location: CHEM CTATE #4 Job Contact: CHRIS GADDY Phone Number: (000)000-0000 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.

OSCAV A MORAGER

Driver Signature

C-138

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the Environmental Protection Agency's July 1988 regulatory determination, the above described waste load is:

RCRA Exempt:

Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. (Gandy Marley, Inc. accepts certifications on a per month only basis.)

☐RCRA NON-EXEMPT:

MSDS Information

Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261-24, or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached:

RCRA Hazardous Waste Analysis

Other (Provide Description Below)

☐ Emergency Non-Oilfield:

Emergency non-hazardous, non-oilfied waste that has been ordered by the Department of Public Safety. (The order, documentation of non-hazardous waste determination, and a description of the waste must

accompany this form.)

Name

Signature

Kimberly Murphy

Name

Sante Fe Main Office Phone: (505) 476-3441 General Information

Phone: (505) 629-6116
Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS

Action 408499

QUESTIONS

Operator:	OGRID:
CAMBRIAN MANAGEMENT LTD	198688
310 W Wall Street Ste 300	Action Number:
Midland, TX 79701	408499
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nDEV5072
Incident Name	NDEV5072 CHEM STATE #003 @ 30-025-22747
Incident Type	Other
Incident Status	Remediation Closure Report Received
Incident Well	[30-025-22747] CHEM STATE #003

Location of Release Source	
Please answer all the questions in this group.	
Site Name	Chem State #003
Date Release Discovered	02/22/1999
Surface Owner	State

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Corrosion Flow Line - Production Produced Water Released: 25 BBL Recovered: 0 BBL Lost: 25 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	Cause: Corrosion Flow Line - Production Produced Water Released: 25 BBL Recovered: 0 BBL Lost: 25 BBL.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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

QUESTIONS, Page 2

Action 408499

QUESTI	ONS (continued)
Operator: CAMBRIAN MANAGEMENT LTD 310 W Wall Street Ste 300 Midland, TX 79701	OGRID: 198688 Action Number: 408499 Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)
QUESTIONS	
Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e.	e. gas only) are to be submitted on the C-129 form.
Initial Response The responsible party must undertake the following actions immediately unless they could create a s	afety hazard that would result in injury.
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.
	Idition immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for releating the OCD does not relieve the operator of liability should their operations have failed to a	knowledge and understand that pursuant to OCD rules and regulations all operators are require ases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: Socorro Hendry Title: Regulatory Manager Email: socorro.hendry@octane-energy.com Date: 12/04/2024

Sante Fe Main Office Phone: (505) 476-3441 General Information

Phone: (505) 629-6116

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

QUESTIONS, Page 3

Action 408499

QUESTIONS (continued)

Operator:	OGRID:
CAMBRIAN MANAGEMENT LTD	198688
310 W Wall Street Ste 300	Action Number:
Midland, TX 79701	408499
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization		
Please answer all the questions in this group (only required when seeking remediation plan approva release discovery date.	l and beyond). This information must be provided to the appropriate district office no later than 90 days after the	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 26 and 50 (ft.)	
What method was used to determine the depth to ground water	NM OSE iWaters Database Search	
Did this release impact groundwater or surface water	No	
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:		
A continuously flowing watercourse or any other significant watercourse	Between 1000 (ft.) and ½ (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	Between 1 and 5 (mi.)	
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1000 (ft.) and ½ (mi.)	
Any other fresh water well or spring	Between 1 and 5 (mi.)	
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)	
A wetland	Between 500 and 1000 (ft.)	
A subsurface mine	Greater than 5 (mi.)	
An (non-karst) unstable area	Greater than 5 (mi.)	
Categorize the risk of this well / site being in a karst geology	Low	
A 100-year floodplain	Between 1 and 5 (mi.)	
Did the release impact areas not on an exploration, development, production, or storage site	No	

apply or are indicated. This information must be provided to	o the appropriate district office no later than 90 days after the release discovery date.
an approval with this submission	Yes
onstrating the lateral and vertical extents of soil contamination	on associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.
extents of contamination been fully delineated	Yes
tained within a lined containment area	No
(Provide the highest observable value for each, in m	nilligrams per kilograms.)
(EPA 300.0 or SM4500 CI B)	1690
(EPA SW-846 Method 8015M)	237
(EPA SW-846 Method 8015M)	70
(EPA SW-846 Method 8021B or 8260B)	0
(EPA SW-846 Method 8021B or 8260B)	0
IAC unless the site characterization report includes complete ines for beginning and completing the remediation.	ed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC
the remediation commence	09/09/2024
final sampling or liner inspection occur	09/26/2024
e remediation complete(d)	09/28/2024
e area (in square feet) that will be reclaimed	1150
e (in cubic yards) that will be reclaimed	180
e area (in square feet) that will be remediated	1150
e (in cubic yards) that will be remediated	180
ments are recognized to be the best guess or calculation at t	the time of submission and may (be) change(d) over time as more remediation efforts are completed.
	an approval with this submission constrating the lateral and vertical extents of soil contamination extents of contamination been fully delineated tained within a lined containment area (Provide the highest observable value for each, in m (EPA 300.0 or SM4500 CI B) (EPA SW-846 Method 8015M) (EPA SW-846 Method 8015M) (EPA SW-846 Method 8021B or 8260B) (EPA SW-846 Method 8021B or 8260B) (AC unless the site characterization report includes completines for beginning and completing the remediation. The remediation commence final sampling or liner inspection occur the remediation complete(d) the area (in square feet) that will be reclaimed the remediated the incubic yards) that will be remediated the incubic yards) that will be remediated

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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

QUESTIONS, Page 4

Action 408499

QUESTIONS (continued)

Operator:	OGRID:
CAMBRIAN MANAGEMENT LTD	198688
310 W Wall Street Ste 300	Action Number:
Midland, TX 79701	408499
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

4020110110	
Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the	e 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	e / 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.

Name: Socorro Hendry
Title: Regulatory Manager
Email: socorro.hendry@octane-energy.com

Date: 12/04/2024

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

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

QUESTIONS, Page 5

Action 408499

QUESTIONS (continued)

Operator:	OGRID:
CAMBRIAN MANAGEMENT LTD	198688
310 W Wall Street Ste 300	Action Number:
Midland, TX 79701	408499
	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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Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr.

State of New Mexico

QUESTIONS, Page 6

Action 408499

QUESTIONS (continued)

Santa Fe, NM 87505

Operator:	OGRID:
CAMBRIAN MANAGEMENT LTD	198688
310 W Wall Street Ste 300	Action Number:
Midland, TX 79701	408499
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	385829
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/26/2024
What was the (estimated) number of samples that were to be gathered	8
What was the sampling surface area in square feet	1600

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	1150		
What was the total volume (cubic yards) remediated	180		
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	1150		
What was the total volume (in cubic yards) reclaimed	180		
Summarize any additional remediation activities not included by answers (above)	The excavation will be backfilled upon OCD approval of this Report. The surface area 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.

Name: Socorro Hendry
I hereby agree and sign off to the above statement
Email: socorro.hendry@octane-energy.com
Date: 12/04/2024

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

QUESTIONS, Page 7

Action 408499

QUESTIONS (continued)

Operator:	OGRID:
CAMBRIAN MANAGEMENT LTD	198688
310 W Wall Street Ste 300	Action Number:
Midland, TX 79701	408499
	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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State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

CONDITIONS

Action 408499

CONDITIONS

Operator:	OGRID:
CAMBRIAN MANAGEMENT LTD	198688
310 W Wall Street Ste 300	Action Number:
Midland, TX 79701	408499
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	Remediation closure approved.	12/17/2024
amaxwell	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. The OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	12/17/2024