Remediation Summary and Closure Report

December 20, 2024

Chem State #001
API No. 30-025-08012
Incident No. nAPP2426159828
Lea County, New Mexico

Prepared For:

Octane Energy
(For Cambrian Management Ltd.)
310 West Wall Street, Suite 300
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Grain Environmental

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FIGURES

APPENDICES

1.0 Introduction

Crain Environmental (CE), on behalf of Octane Energy (Octane) for Cambrian Management Ltd. (Cambrian), has prepared this *Remediation Summary and Closure Report* for the crude oil release at Chem State #001 (Site), located approximately 23 miles northwest of Lovington, in Lea County, New Mexico. The global positioning system (GPS) coordinates for the release point are 33.05048, -103.715914. The property surface rights are owned by the State of New Mexico. Land use in the Site vicinity is primarily oil and gas production activity and cattle grazing. The location of the Site is depicted on Figure 1.

2.0 Background

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

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

On March 12, 2024, CE conducted an initial soil investigation at the suspect area south of the wellhead and provided a Notice of Violation (NOV) to the New Mexico Oil Conservation Division (NMOCD) on September 17, 2024. On September 18, 2024, an Initial C-141 was provided to the NMOCD for Incident #nAPP2426159828.

Soil remediation and P&A 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.

3.0 NMOCD Closure Criteria

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

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

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

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

3.1 Groundwater Evaluation

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

3.2 Surface Features and Other Development

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

- Within 300 feet of any continuously flowing watercourse or any other significant watercourse.
    - No continuously flowing watercourses (rivers, streams, arroyos, etc.) are apparent within 300 feet of the Site in the topographic map (Figure 1).
- 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 4,370 feet west of the Site.
- Within 1,000 feet of any fresh water well or spring.
    - No freshwater wells or springs located within 1,000 feet of the Site appear in any of the records reviewed by CE. Freshwater emergent wetlands are located approximately 4,350 feet west and 4,660 feet southeast of the Site.

- Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to Section 3-27-3 NMSA 1978 as amended.
    - Based on the property and other records review by CE, the Site is not located in incorporated municipal boundaries or within a defined municipal fresh water well field.
- Within the area overlying a subsurface mine.
    - Based on the property and other records reviewed by CE, the Site is not located within an area overlying a subsurface mine.

3.3 Wetlands, Floodplain, and Karst Geology

A review of the United States Fish and Wildlife Service (USFWS) wetlands map indicated the Site is not located within 300 feet of a wetland; however, freshwater emergent wetlands are located approximately 4,350 feet west and 4,660 feet southeast of the Site, and a freshwater pond is located approximately 4,370 feet west 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

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

Notes: NA = not applicable
bgs = below ground surface
mg/kg = milligrams per kilogram
GRO = gasoline range organics
DRO = diesel range organics
MRO = motor oil range organics
TPH = total petroleum hydrocarbons
BTEX = benzene, toluene, ethylbenzene, and total xylenes
Green highlighted cells denote applicable Closure Criteria.

4.0 Site Assessment/Characterization Results

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

4.1 Site Map

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

4.2 Depth to Groundwater

As discussed in Section 3.1, the exact depth to groundwater beneath the Site is unknown. During investigation activities, a maximum depth of 2.5 feet bgs was reached, at which groundwater was not encountered.

4.3 Wellhead Protection Area

The 0.5-mile wellhead protection area is shown on Figure 3. No known water wells are located within 0.5 mile of the Site that provide groundwater information more recent than 25 years ago. A review of the USFWS wetlands map indicated freshwater emergent wetlands are located approximately 4,350 feet west and 4,660 feet southeast of the Site, and a freshwater pond is located approximately 4,370 feet west of the Site. There were no other water sources, springs, or other sources of freshwater extraction identified within 0.5-mile of the Site.

4.4 Distance to Nearest Significant Watercourse

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

4.5 Summary of Remediation Activities

On March 12, 2024, soil samples were collected at one location (S-7) using a backhoe. Samples collected at depths of 1’ bgs and 2’ bgs were placed in laboratory prepared containers, properly labeled, immediately placed on ice, and hand delivered to Eurofins Environment Testing (Eurofins) in Midland, Texas for analysis of total petroleum hydrocarbons (TPH) by EPA Method SW846 8015 Modified, benzene, toluene, ethylbenzene, and xylenes (collectively referred to as BTEX) by EPA Method SW 846 8021B, and chlorides by EPA Method 300.0.

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

Referring to Table 1, concentrations of BTEX and chlorides were reported below the test method detection limits or Closure Criteria in each sample. Concentrations of TPH were reported above the Closure Criteria in sample S-7 at depths of 1’ bgs (394 mg/kg) and 2’ bgs (162 mg/kg).

Excavation was conducted until confirmation samples (S-7, and S-32 to S-35) 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 BTEX and chlorides were reported below the NMOCD Closure Criteria in all confirmation samples. Concentrations of TPH exceeded the Closure Criteria in sidewall samples S-32 (274 mg/kg) and S-34 (309 mg/kg), each five-point composite sample collected from a depth of 0 to 2.5' bgs. Additional excavation was conducted from the north and south sidewalls and final five-point composite confirmation samples were collected on November 4, 2024.

Referring to Table 1, all final concentrations of TPH, BTEX, and chlorides were reported below the NMOCD Closure Criteria. Approximately 40 cubic yards (cy) of excavated soil were hauled to disposal at GM Inc.

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 880-49112-1, 880-49103-1, and 880-50851-1 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 40 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 #nAPP2426159828.

6.0 Distribution

Copy 1: Mike Bratcher
New Mexico Energy, Minerals, and Natural Resources Department
Oil Conservation Division, District 2
811 S. First Street
Artesia, New Mexico 88210

Copy 2: New Mexico State Land Office
Environmental Compliance Office
Via email: eco@nmslo.gov

TABLE

TABLE 1
SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS
CAMBRIAN MANAGEMENT, LTD.
CHEM STATE #001
INCIDENT #nAPP2426159828 (Flowline to South of Well)

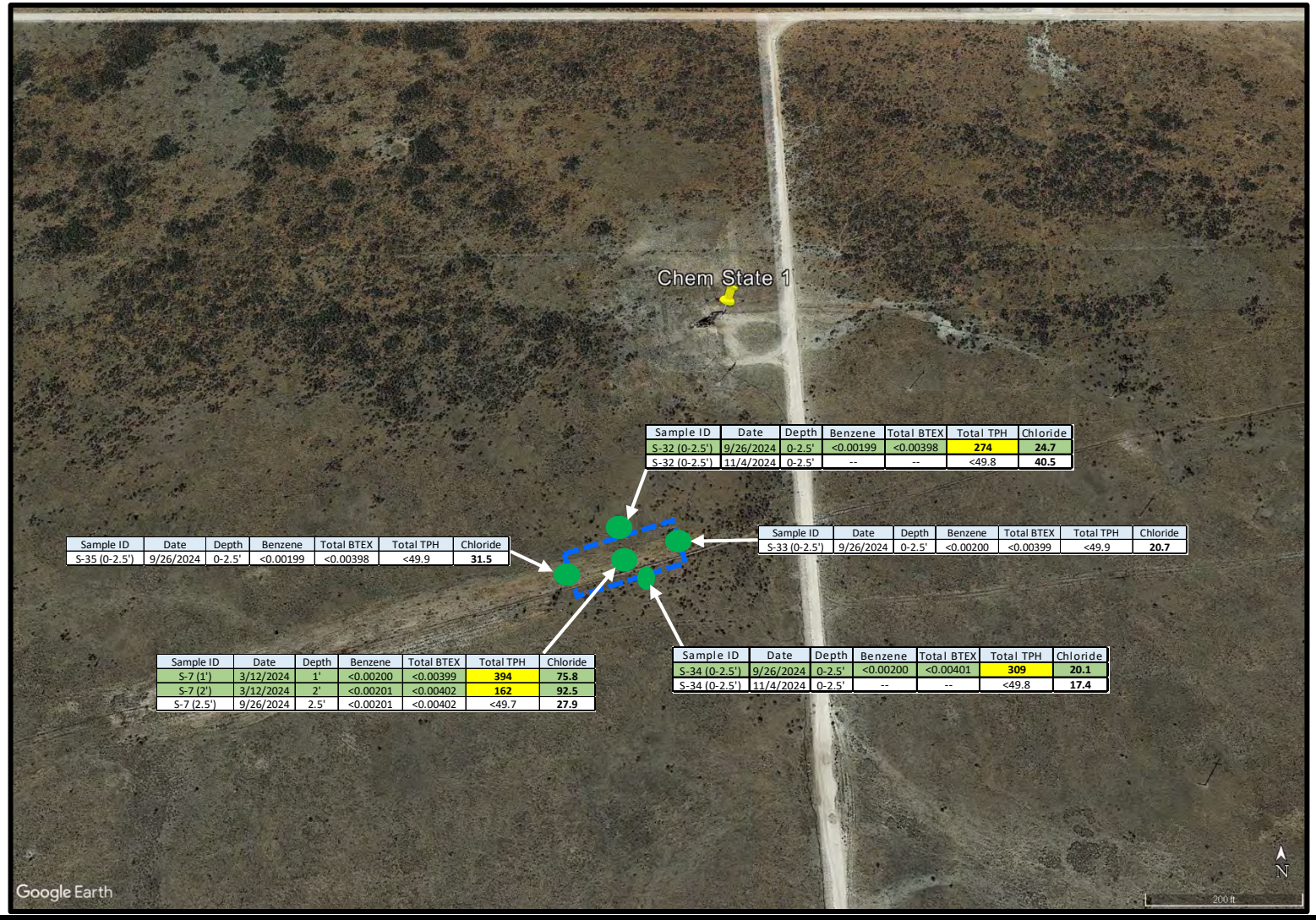
Sample ID	Sample Date	Sample Depth	Soil Status	TPH (GRO)	TPH (DRO)	TPH (MRO)	Total TPH	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	Chloride
				milligrams per kilogram (mg/kg)									
NMOCD Closure Criteria (Surface to 4' bgs)							**100**	**10**	**-**	**-**	**-**	**50**	**600**
S-7 (1')	03/12/24	1'	Excavated	<49.9	**394**	<49.9	**394**	<0.00200	**0.00203**	<0.00200	<0.00399	<0.00399	**75.8**
S-7 (2')	03/12/24	2'	Excavated	<49.8	**162**	<49.8	**162**	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	**92.5**
S-7 (2.5')	09/26/24	2.5'	In Situ	<49.7	<49.7	<49.7	<49.7	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	**27.9**
S-32 (0-2.5')	09/26/24	0-2.5'	Excavated	<50.0	**274**	<50.0	**274**	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	**24.7**
S-32 (0-2.5')	11/04/24	0-2.5'	In Situ	<49.8	<49.8	<49.8	<49.8	--	--	--	--	--	**40.5**
S-33 (0-2.5')	09/26/24	0-2.5'	In Situ	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	**20.7**
S-34 (0-2.5')	09/26/24	0-2.5'	Excavated	<50.0	**309**	<50.0	**309**	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	**20.1**
S-34 (0-2.5')	11/04/24	0-2.5'	In Situ	<49.8	<49.8	<49.8	<49.8	--	--	--	--	--	**17.4**
S-35 (0-2.5')	09/26/24	0-2.5'	In Situ	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	**31.5**

Notes:

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

FIGURES

LEGEND: Site Location Base Map From Google Earth Pro	**Figure 1** **Site Location Map** Cambrian Management Chem State #001 Lea County, New Mexico		Grain Environmental
		Drafted by: CC | Checked by: CC	
		Draft: December 20, 2024	
		GPS: 33.05048° -103.715914°	



LEGEND:

- Sample Location With Concentrations (mg/kg).
- Excavation Boundary
- Highlight Indicates Concentration Exceeds NMOCD Closure Criteria
- Highlight Indicates Soil was Excavated and Disposed

Figure 2

Sample Location Map

Octane Energy

Chem State #001

Lea County, New Mexico

Drafted by: CC | Checked by: CC

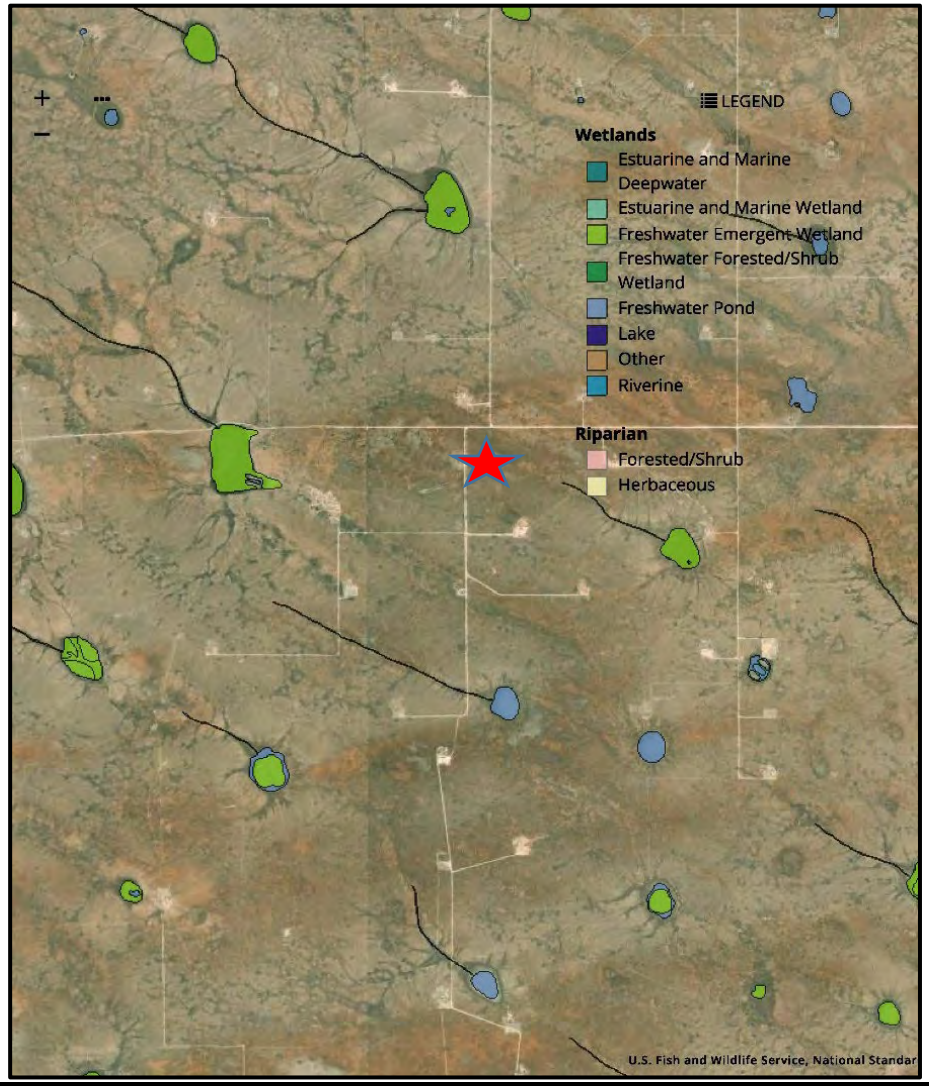
Draft: December 20, 2024

GPS: 33.05048° -103.715914°

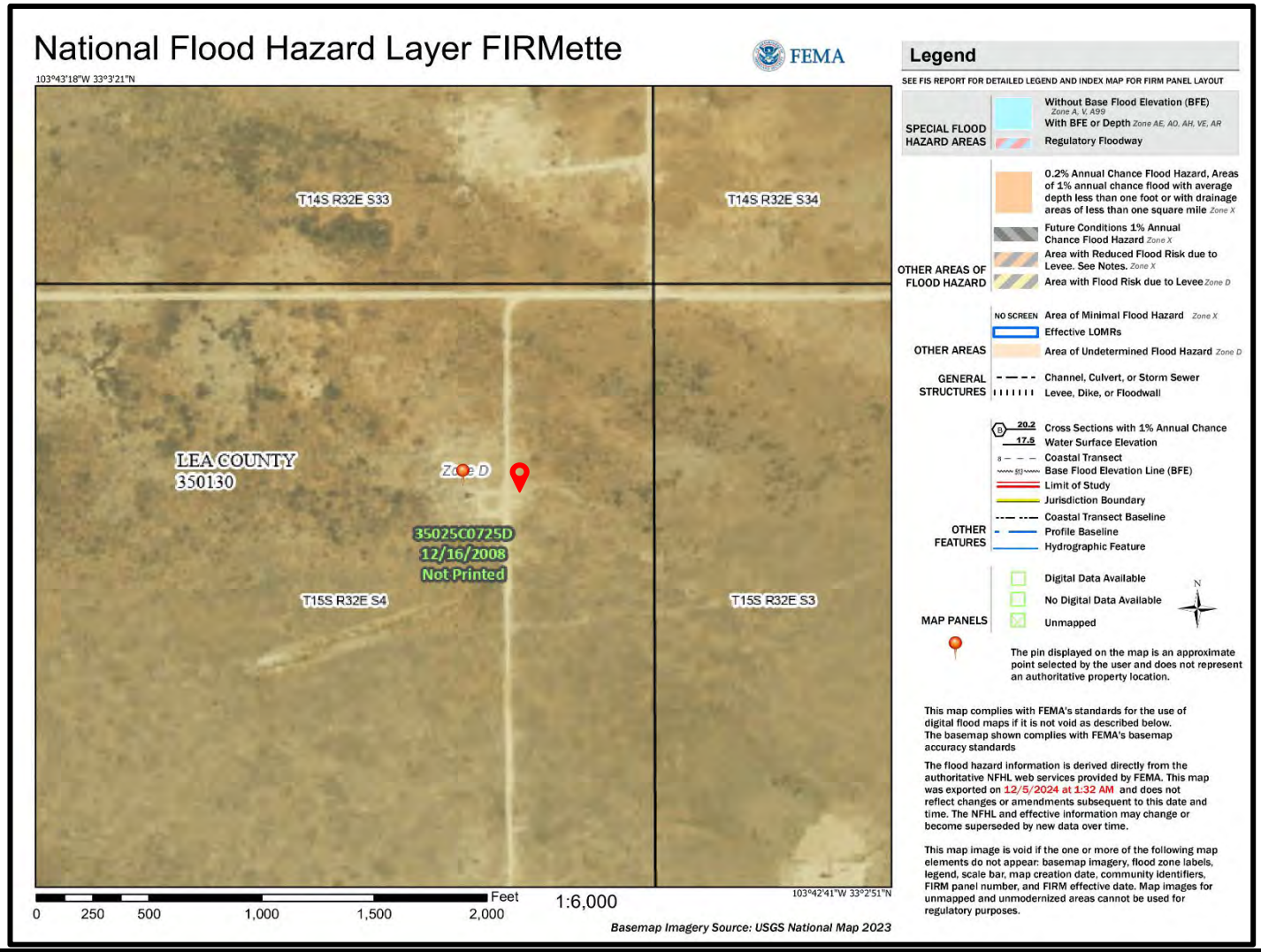
Base Map From Google Earth Pro

Grain Environmental

LEGEND: Site Location Water Well Location Base Map From Google Earth Pro	**Figure 3** **Wellhead Protection Area Map** Cambrian Management Chem State #001 Lea County, New Mexico	Drafted by: CC | Checked by: CC Draft: December 20, 2024 GPS: 33.05048° -103.715914°



LEGEND: Site Location Base Map From US Fish & Wildlife Service	**Figure 4** **National Wetlands Inventory Map** Cambrian Management Chem State #001 Lea County, New Mexico		Grain Environmental
		Drafted by: CC | Checked by: CC	
		Draft: December 20, 2024	
		GPS: 33.05048° -103.715914°	



LEGEND:

Site Location

Base Map From FEMA

Figure 5

FEMA Floodplain Map

Cambrian Management

Chem State #001

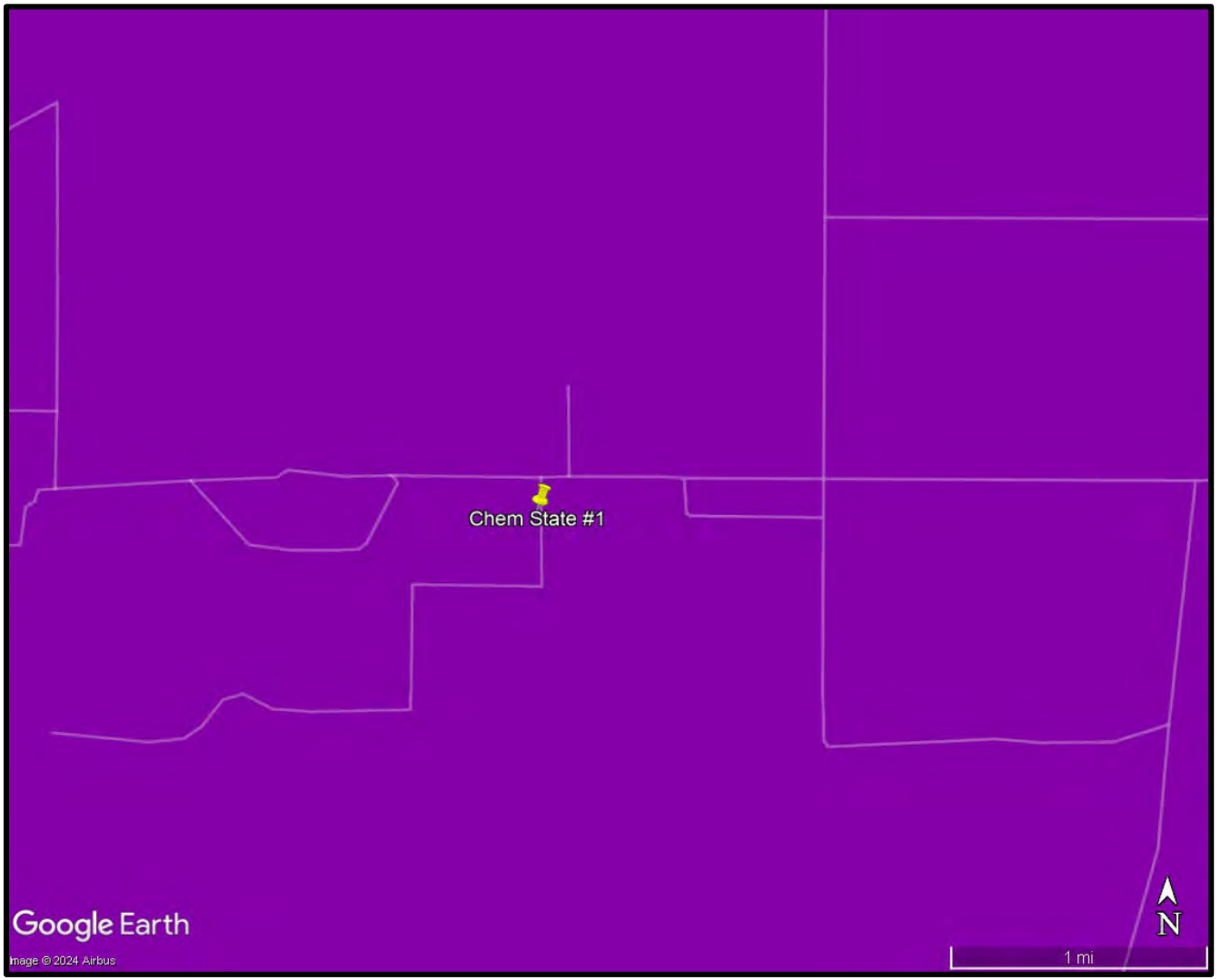
Lea County, New Mexico

Drafted by: CC | Checked by: CC

Draft: December 20, 2024

GPS: 33.05048° -103.715914°

Grain Environmental



LEGEND: Low Karst Potential Medium Karst Potential High Karst Potential Base Map From Google Earth Pro and BLM	**Figure 6** **Karst Potential Map** Cambrian Management Chem State #001 Lea County, New Mexico	Drafted by: CC | Checked by: CC Draft: December 20, 2024 GPS: 33.0517197° -103.716301°

Grain Environmental

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

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 10/4/2024 2:45:15 PM

JOB DESCRIPTION

Chem State #1 E FL
Lea Co., NM

JOB NUMBER

880-49112-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

my EOL

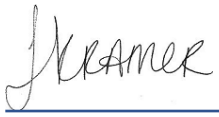
Eurofins Midland

Job Notes

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

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

Authorization



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

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

Laboratory Job ID: 880-49112-1
SDG: Lea Co., NM

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Definitions/Glossary

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

Job ID: 880-49112-1
SDG: Lea Co., NM

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Crain Environmental
Project: Chem State #1 E FL

Job ID: 880-49112-1

Job ID: 880-49112-1 Eurofins Midland

Job Narrative
880-49112-1

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.

GC VOA
Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-92120 and analytical batch 880-92039 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: S-26 (0-1.5') (880-49112-14) and S-31 (0-1.5') (880-49112-19). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-91951 and analytical batch 880-92039 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: S-25 (0-1.5') (880-49112-13) and S-30 (0-1.5') (880-49112-18). Evidence of matrix interferences is not obvious.

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

Diesel Range Organics
Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: (LCSD 880-92044/3-A). Percent recoveries are based on the amount spiked.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-92044 and analytical batch 880-92508 recovered outside control limits for the following analytes: Diesel Range Organics (Over C10-C28).

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

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

Client Sample Results

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

Job ID: 880-49112-1
SDG: Lea Co., NM

Client Sample ID: S-2 (0-1.5')

Lab Sample ID: 880-49112-1
Matrix: Solid
Date Collected: 09/26/24 10:15
Date Received: 09/27/24 13:45
Sample Depth: 0-1.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/30/24 10:59	10/01/24 15:02	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/30/24 10:59	10/01/24 15:02	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/30/24 10:59	10/01/24 15:02	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/30/24 10:59	10/01/24 15:02	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/30/24 10:59	10/01/24 15:02	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/30/24 10:59	10/01/24 15:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*09/30/24 10:59*	*10/01/24 15:02*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*09/30/24 10:59*	*10/01/24 15:02*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/01/24 15:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**233**		49.8		mg/Kg			10/03/24 18:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		09/29/24 20:42	10/03/24 18:34	1
Diesel Range Organics (Over C10-C28)	**233**	***1**	49.8		mg/Kg		09/29/24 20:42	10/03/24 18:34	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/29/24 20:42	10/03/24 18:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*114*		*70 - 130*	*09/29/24 20:42*	*10/03/24 18:34*	*1*
o-Terphenyl	*102*		*70 - 130*	*09/29/24 20:42*	*10/03/24 18:34*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**71.0**		4.96		mg/Kg			10/02/24 19:19	1

Client Sample ID: S-3 (2.5')

Lab Sample ID: 880-49112-2
Matrix: Solid
Date Collected: 09/26/24 10:20
Date Received: 09/27/24 13:45
Sample Depth: 1.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/30/24 10:59	10/01/24 16:26	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/30/24 10:59	10/01/24 16:26	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/30/24 10:59	10/01/24 16:26	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/30/24 10:59	10/01/24 16:26	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/30/24 10:59	10/01/24 16:26	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/30/24 10:59	10/01/24 16:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*09/30/24 10:59*	*10/01/24 16:26*	*1*

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Client Sample Results

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

Job ID: 880-49112-1
SDG: Lea Co., NM

Client Sample ID: S-3 (2.5')

Date Collected: 09/26/24 10:20
Date Received: 09/27/24 13:45
Sample Depth: 1.5'

Lab Sample ID: 880-49112-2
Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*09/30/24 10:59*	*10/01/24 16:26*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			10/01/24 16:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			10/03/24 18:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		09/29/24 20:42	10/03/24 18:51	1
Diesel Range Organics (Over C10-C28)	<49.7	U *1	49.7		mg/Kg		09/29/24 20:42	10/03/24 18:51	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		09/29/24 20:42	10/03/24 18:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*124*		*70 - 130*	*09/29/24 20:42*	*10/03/24 18:51*	*1*
o-Terphenyl	*111*		*70 - 130*	*09/29/24 20:42*	*10/03/24 18:51*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**15.5**		5.04		mg/Kg			10/02/24 19:25	1

Client Sample ID: S-4 (2.5')

Date Collected: 09/26/24 10:25
Date Received: 09/27/24 13:45
Sample Depth: 1.5'

Lab Sample ID: 880-49112-3
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/30/24 10:59	10/01/24 16:47	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/30/24 10:59	10/01/24 16:47	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/30/24 10:59	10/01/24 16:47	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/30/24 10:59	10/01/24 16:47	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/30/24 10:59	10/01/24 16:47	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/30/24 10:59	10/01/24 16:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*09/30/24 10:59*	*10/01/24 16:47*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*09/30/24 10:59*	*10/01/24 16:47*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			10/01/24 16:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			10/03/24 19:08	1

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Client Sample Results

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

Job ID: 880-49112-1
SDG: Lea Co., NM

Client Sample ID: S-4 (2.5')

Lab Sample ID: 880-49112-3
Matrix: Solid
Date Collected: 09/26/24 10:25
Date Received: 09/27/24 13:45
Sample Depth: 1.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/29/24 20:42	10/03/24 19:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0		mg/Kg		09/29/24 20:42	10/03/24 19:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/29/24 20:42	10/03/24 19:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*113*		*70 - 130*	*09/29/24 20:42*	*10/03/24 19:08*	*1*
o-Terphenyl	*102*		*70 - 130*	*09/29/24 20:42*	*10/03/24 19:08*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**15.1**		4.97		mg/Kg			10/02/24 19:32	1

Client Sample ID: S-16 (0-1.5')

Lab Sample ID: 880-49112-4
Matrix: Solid
Date Collected: 09/26/24 10:30
Date Received: 09/27/24 13:45
Sample Depth: 0-1.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		09/30/24 10:59	10/01/24 17:08	1
Toluene	<0.00202	U	0.00202		mg/Kg		09/30/24 10:59	10/01/24 17:08	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		09/30/24 10:59	10/01/24 17:08	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		09/30/24 10:59	10/01/24 17:08	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		09/30/24 10:59	10/01/24 17:08	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		09/30/24 10:59	10/01/24 17:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*09/30/24 10:59*	*10/01/24 17:08*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*09/30/24 10:59*	*10/01/24 17:08*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			10/01/24 17:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			10/03/24 19:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/29/24 20:42	10/03/24 19:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0		mg/Kg		09/29/24 20:42	10/03/24 19:25	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/29/24 20:42	10/03/24 19:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*09/29/24 20:42*	*10/03/24 19:25*	*1*
o-Terphenyl	*94*		*70 - 130*	*09/29/24 20:42*	*10/03/24 19:25*	*1*

Client Sample Results

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

Job ID: 880-49112-1
SDG: Lea Co., NM

Client Sample ID: S-16 (0-1.5')

Lab Sample ID: 880-49112-4
Matrix: Solid
Date Collected: 09/26/24 10:30
Date Received: 09/27/24 13:45
Sample Depth: 0-1.5'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	42.4		4.99		mg/Kg			10/02/24 19:38	1

Client Sample ID: S-17 (0-1.5')

Lab Sample ID: 880-49112-5
Matrix: Solid
Date Collected: 09/26/24 10:35
Date Received: 09/27/24 13:45
Sample Depth: 0-1.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/30/24 10:59	10/01/24 17:28	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/30/24 10:59	10/01/24 17:28	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/30/24 10:59	10/01/24 17:28	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/30/24 10:59	10/01/24 17:28	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/30/24 10:59	10/01/24 17:28	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/30/24 10:59	10/01/24 17:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*09/30/24 10:59*	*10/01/24 17:28*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*09/30/24 10:59*	*10/01/24 17:28*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/01/24 17:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/03/24 19:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		09/29/24 20:42	10/03/24 19:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9		mg/Kg		09/29/24 20:42	10/03/24 19:41	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/29/24 20:42	10/03/24 19:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*114*		*70 - 130*	*09/29/24 20:42*	*10/03/24 19:41*	*1*
o-Terphenyl	*104*		*70 - 130*	*09/29/24 20:42*	*10/03/24 19:41*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	22.0		4.99		mg/Kg			10/02/24 19:44	1

Client Sample Results

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

Job ID: 880-49112-1
SDG: Lea Co., NM

Client Sample ID: S-18 (1.5')

Lab Sample ID: 880-49112-6
Matrix: Solid
Date Collected: 09/26/24 10:40
Date Received: 09/27/24 13:45
Sample Depth: 1.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/30/24 10:59	10/01/24 17:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/30/24 10:59	10/01/24 17:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/30/24 10:59	10/01/24 17:49	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/30/24 10:59	10/01/24 17:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/30/24 10:59	10/01/24 17:49	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/30/24 10:59	10/01/24 17:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*09/30/24 10:59*	*10/01/24 17:49*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*09/30/24 10:59*	*10/01/24 17:49*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			10/01/24 17:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**186**		49.7		mg/Kg			10/03/24 19:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		09/29/24 20:42	10/03/24 19:58	1
Diesel Range Organics (Over C10-C28)	**186**	***1**	49.7		mg/Kg		09/29/24 20:42	10/03/24 19:58	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		09/29/24 20:42	10/03/24 19:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*108*		*70 - 130*	*09/29/24 20:42*	*10/03/24 19:58*	*1*
o-Terphenyl	*99*		*70 - 130*	*09/29/24 20:42*	*10/03/24 19:58*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**12.9**		4.96		mg/Kg			10/02/24 19:51	1

Client Sample ID: S-19 (0-1.5')

Lab Sample ID: 880-49112-7
Matrix: Solid
Date Collected: 09/26/24 10:45
Date Received: 09/27/24 13:45
Sample Depth: 0-1.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/30/24 10:59	10/01/24 18:09	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/30/24 10:59	10/01/24 18:09	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/30/24 10:59	10/01/24 18:09	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/30/24 10:59	10/01/24 18:09	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/30/24 10:59	10/01/24 18:09	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/30/24 10:59	10/01/24 18:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*09/30/24 10:59*	*10/01/24 18:09*	*1*

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Client Sample Results

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

Job ID: 880-49112-1
SDG: Lea Co., NM

Client Sample ID: S-19 (0-1.5')

Lab Sample ID: 880-49112-7
Matrix: Solid
Date Collected: 09/26/24 10:45
Date Received: 09/27/24 13:45
Sample Depth: 0-1.5'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*09/30/24 10:59*	*10/01/24 18:09*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			10/01/24 18:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			10/03/24 20:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		09/29/24 20:42	10/03/24 20:14	1
Diesel Range Organics (Over C10-C28)	<49.8	U *1	49.8		mg/Kg		09/29/24 20:42	10/03/24 20:14	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/29/24 20:42	10/03/24 20:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*106*		*70 - 130*	*09/29/24 20:42*	*10/03/24 20:14*	*1*
o-Terphenyl	*97*		*70 - 130*	*09/29/24 20:42*	*10/03/24 20:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**39.9**		5.01		mg/Kg			10/02/24 19:57	1

Client Sample ID: S-20 (0-1.5')

Lab Sample ID: 880-49112-8
Matrix: Solid
Date Collected: 09/26/24 10:50
Date Received: 09/27/24 13:45
Sample Depth: 0-1.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/30/24 10:59	10/01/24 18:30	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/30/24 10:59	10/01/24 18:30	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/30/24 10:59	10/01/24 18:30	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/30/24 10:59	10/01/24 18:30	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/30/24 10:59	10/01/24 18:30	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/30/24 10:59	10/01/24 18:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*09/30/24 10:59*	*10/01/24 18:30*	*1*
1,4-Difluorobenzene (Surr)	*72*		*70 - 130*	*09/30/24 10:59*	*10/01/24 18:30*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/01/24 18:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**68.7**		50.0		mg/Kg			10/03/24 20:31	1

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Client Sample Results

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

Job ID: 880-49112-1
SDG: Lea Co., NM

Client Sample ID: S-20 (0-1.5')

Lab Sample ID: 880-49112-8
Matrix: Solid
Date Collected: 09/26/24 10:50
Date Received: 09/27/24 13:45
Sample Depth: 0-1.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/29/24 20:42	10/03/24 20:31	1
Diesel Range Organics (Over C10-C28)	**68.7**	***1**	50.0		mg/Kg		09/29/24 20:42	10/03/24 20:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/29/24 20:42	10/03/24 20:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*116*		*70 - 130*	*09/29/24 20:42*	*10/03/24 20:31*	*1*
o-Terphenyl	*106*		*70 - 130*	*09/29/24 20:42*	*10/03/24 20:31*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7.86**		4.99		mg/Kg			10/01/24 23:36	1

Client Sample ID: S-21 (0-1.5')

Lab Sample ID: 880-49112-9
Matrix: Solid
Date Collected: 09/26/24 10:55
Date Received: 09/27/24 13:45
Sample Depth: 0-1.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/30/24 10:59	10/01/24 18:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/30/24 10:59	10/01/24 18:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/30/24 10:59	10/01/24 18:50	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/30/24 10:59	10/01/24 18:50	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/30/24 10:59	10/01/24 18:50	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/30/24 10:59	10/01/24 18:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*09/30/24 10:59*	*10/01/24 18:50*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*09/30/24 10:59*	*10/01/24 18:50*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			10/01/24 18:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			10/03/24 21:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		09/29/24 20:42	10/03/24 21:03	1
Diesel Range Organics (Over C10-C28)	<49.8	U *1	49.8		mg/Kg		09/29/24 20:42	10/03/24 21:03	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/29/24 20:42	10/03/24 21:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*111*		*70 - 130*	*09/29/24 20:42*	*10/03/24 21:03*	*1*
o-Terphenyl	*102*		*70 - 130*	*09/29/24 20:42*	*10/03/24 21:03*	*1*

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Client Sample Results

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

Job ID: 880-49112-1
SDG: Lea Co., NM

Client Sample ID: S-21 (0-1.5')

Lab Sample ID: 880-49112-9
Matrix: Solid
Date Collected: 09/26/24 10:55
Date Received: 09/27/24 13:45
Sample Depth: 0-1.5'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20.2		4.96		mg/Kg			10/01/24 23:53	1

Client Sample ID: S-22 (0-1.5')

Lab Sample ID: 880-49112-10
Matrix: Solid
Date Collected: 09/26/24 11:00
Date Received: 09/27/24 13:45
Sample Depth: 0-1.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/30/24 10:59	10/01/24 19:11	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/30/24 10:59	10/01/24 19:11	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/30/24 10:59	10/01/24 19:11	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		09/30/24 10:59	10/01/24 19:11	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/30/24 10:59	10/01/24 19:11	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		09/30/24 10:59	10/01/24 19:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*09/30/24 10:59*	*10/01/24 19:11*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*09/30/24 10:59*	*10/01/24 19:11*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			10/01/24 19:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			10/03/24 21:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		09/29/24 20:42	10/03/24 21:19	1
Diesel Range Organics (Over C10-C28)	<49.8	U *1	49.8		mg/Kg		09/29/24 20:42	10/03/24 21:19	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/29/24 20:42	10/03/24 21:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*94*		*70 - 130*	*09/29/24 20:42*	*10/03/24 21:19*	*1*
o-Terphenyl	*86*		*70 - 130*	*09/29/24 20:42*	*10/03/24 21:19*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.5		5.00		mg/Kg			10/01/24 23:58	1

Client Sample Results

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

Job ID: 880-49112-1
SDG: Lea Co., NM

Client Sample ID: S-23 (1.5')

Lab Sample ID: 880-49112-11
Matrix: Solid
Date Collected: 09/26/24 11:05
Date Received: 09/27/24 13:45
Sample Depth: 1.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/30/24 10:59	10/01/24 19:31	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/30/24 10:59	10/01/24 19:31	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/30/24 10:59	10/01/24 19:31	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/30/24 10:59	10/01/24 19:31	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/30/24 10:59	10/01/24 19:31	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/30/24 10:59	10/01/24 19:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*09/30/24 10:59*	*10/01/24 19:31*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*09/30/24 10:59*	*10/01/24 19:31*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/01/24 19:31	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			10/03/24 21:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		09/29/24 20:42	10/03/24 21:35	1
Diesel Range Organics (Over C10-C28)	<49.6	U *1	49.6		mg/Kg		09/29/24 20:42	10/03/24 21:35	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		09/29/24 20:42	10/03/24 21:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*108*		*70 - 130*	*09/29/24 20:42*	*10/03/24 21:35*	*1*
o-Terphenyl	*96*		*70 - 130*	*09/29/24 20:42*	*10/03/24 21:35*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**18.6**		5.00		mg/Kg			10/02/24 00:03	1

Client Sample ID: S-24 (0-1.5')

Lab Sample ID: 880-49112-12
Matrix: Solid
Date Collected: 09/26/24 11:10
Date Received: 09/27/24 13:45
Sample Depth: 0-1.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/30/24 11:16	10/01/24 00:28	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/30/24 11:16	10/01/24 00:28	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/30/24 11:16	10/01/24 00:28	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/30/24 11:16	10/01/24 00:28	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/30/24 11:16	10/01/24 00:28	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/30/24 11:16	10/01/24 00:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*09/30/24 11:16*	*10/01/24 00:28*	*1*

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Client Sample Results

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

Job ID: 880-49112-1
SDG: Lea Co., NM

Client Sample ID: S-24 (0-1.5')

Lab Sample ID: 880-49112-12
Matrix: Solid
Date Collected: 09/26/24 11:10
Date Received: 09/27/24 13:45
Sample Depth: 0-1.5'

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*09/30/24 11:16*	*10/01/24 00:28*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			10/01/24 00:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			10/03/24 21:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		09/29/24 20:42	10/03/24 21:51	1
Diesel Range Organics (Over C10-C28)	<49.8	U *1	49.8		mg/Kg		09/29/24 20:42	10/03/24 21:51	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/29/24 20:42	10/03/24 21:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*113*		*70 - 130*	*09/29/24 20:42*	*10/03/24 21:51*	*1*
o-Terphenyl	*100*		*70 - 130*	*09/29/24 20:42*	*10/03/24 21:51*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**14.6**		5.01		mg/Kg			10/02/24 00:09	1

Client Sample ID: S-25 (0-1.5')

Lab Sample ID: 880-49112-13
Matrix: Solid
Date Collected: 09/26/24 11:15
Date Received: 09/27/24 13:45
Sample Depth: 0-1.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/30/24 11:16	10/01/24 00:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/30/24 11:16	10/01/24 00:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/30/24 11:16	10/01/24 00:49	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/30/24 11:16	10/01/24 00:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/30/24 11:16	10/01/24 00:49	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/30/24 11:16	10/01/24 00:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*132*	*S1+*	*70 - 130*	*09/30/24 11:16*	*10/01/24 00:49*	*1*
1,4-Difluorobenzene (Surr)	*129*		*70 - 130*	*09/30/24 11:16*	*10/01/24 00:49*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			10/01/24 00:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			10/03/24 22:07	1

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Client Sample Results

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

Job ID: 880-49112-1
SDG: Lea Co., NM

Client Sample ID: S-25 (0-1.5')

Lab Sample ID: 880-49112-13
Matrix: Solid
Date Collected: 09/26/24 11:15
Date Received: 09/27/24 13:45
Sample Depth: 0-1.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/29/24 20:42	10/03/24 22:07	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0		mg/Kg		09/29/24 20:42	10/03/24 22:07	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/29/24 20:42	10/03/24 22:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*115*		*70 - 130*	*09/29/24 20:42*	*10/03/24 22:07*	*1*
o-Terphenyl	*104*		*70 - 130*	*09/29/24 20:42*	*10/03/24 22:07*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**9.13**		4.99		mg/Kg			10/02/24 00:25	1

Client Sample ID: S-26 (0-1.5')

Lab Sample ID: 880-49112-14
Matrix: Solid
Date Collected: 09/26/24 11:20
Date Received: 09/27/24 13:45
Sample Depth: 0-1.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/30/24 11:16	10/01/24 01:09	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/30/24 11:16	10/01/24 01:09	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/30/24 11:16	10/01/24 01:09	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/30/24 11:16	10/01/24 01:09	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/30/24 11:16	10/01/24 01:09	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/30/24 11:16	10/01/24 01:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*137*	*S1+*	*70 - 130*	*09/30/24 11:16*	*10/01/24 01:09*	*1*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*	*09/30/24 11:16*	*10/01/24 01:09*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/01/24 01:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			10/03/24 22:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		09/29/24 20:42	10/03/24 22:23	1
Diesel Range Organics (Over C10-C28)	<49.8	U *1	49.8		mg/Kg		09/29/24 20:42	10/03/24 22:23	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/29/24 20:42	10/03/24 22:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*109*		*70 - 130*	*09/29/24 20:42*	*10/03/24 22:23*	*1*
o-Terphenyl	*98*		*70 - 130*	*09/29/24 20:42*	*10/03/24 22:23*	*1*

Client Sample Results

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

Job ID: 880-49112-1
SDG: Lea Co., NM

Client Sample ID: S-26 (0-1.5')

Lab Sample ID: 880-49112-14
Matrix: Solid
Date Collected: 09/26/24 11:20
Date Received: 09/27/24 13:45
Sample Depth: 0-1.5'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.96	U	4.96		mg/Kg			10/02/24 00:31	1

Client Sample ID: S-27 (0-1.5')

Lab Sample ID: 880-49112-15
Matrix: Solid
Date Collected: 09/26/24 11:25
Date Received: 09/27/24 13:45
Sample Depth: 0-1.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/30/24 11:16	10/01/24 01:30	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/30/24 11:16	10/01/24 01:30	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/30/24 11:16	10/01/24 01:30	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/30/24 11:16	10/01/24 01:30	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/30/24 11:16	10/01/24 01:30	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/30/24 11:16	10/01/24 01:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*127*		*70 - 130*	*09/30/24 11:16*	*10/01/24 01:30*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*09/30/24 11:16*	*10/01/24 01:30*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			10/01/24 01:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/03/24 22:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		09/29/24 20:42	10/03/24 22:39	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9		mg/Kg		09/29/24 20:42	10/03/24 22:39	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/29/24 20:42	10/03/24 22:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*09/29/24 20:42*	*10/03/24 22:39*	*1*
o-Terphenyl	*94*		*70 - 130*	*09/29/24 20:42*	*10/03/24 22:39*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**21.2**		5.05		mg/Kg			10/02/24 00:36	1

Client Sample Results

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

Job ID: 880-49112-1
SDG: Lea Co., NM

Client Sample ID: S-28 (1.5')

Lab Sample ID: 880-49112-16
Matrix: Solid
Date Collected: 09/26/24 11:30
Date Received: 09/27/24 13:45
Sample Depth: 1.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/30/24 11:16	10/01/24 01:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/30/24 11:16	10/01/24 01:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/30/24 11:16	10/01/24 01:50	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/30/24 11:16	10/01/24 01:50	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/30/24 11:16	10/01/24 01:50	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/30/24 11:16	10/01/24 01:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*123*		*70 - 130*	*09/30/24 11:16*	*10/01/24 01:50*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*09/30/24 11:16*	*10/01/24 01:50*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			10/01/24 01:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			10/03/24 22:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		09/29/24 20:42	10/03/24 22:55	1
Diesel Range Organics (Over C10-C28)	<49.8	U *1	49.8		mg/Kg		09/29/24 20:42	10/03/24 22:55	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/29/24 20:42	10/03/24 22:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*109*		*70 - 130*	*09/29/24 20:42*	*10/03/24 22:55*	*1*
o-Terphenyl	*99*		*70 - 130*	*09/29/24 20:42*	*10/03/24 22:55*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**14.8**		4.97		mg/Kg			10/02/24 00:42	1

Client Sample ID: S-29 (0-1.5')

Lab Sample ID: 880-49112-17
Matrix: Solid
Date Collected: 09/26/24 11:35
Date Received: 09/27/24 13:45
Sample Depth: 0-1.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/30/24 11:16	10/01/24 02:10	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/30/24 11:16	10/01/24 02:10	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/30/24 11:16	10/01/24 02:10	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/30/24 11:16	10/01/24 02:10	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/30/24 11:16	10/01/24 02:10	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/30/24 11:16	10/01/24 02:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*130*		*70 - 130*	*09/30/24 11:16*	*10/01/24 02:10*	*1*

Eurofins Midland

Client Sample Results

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

Job ID: 880-49112-1
SDG: Lea Co., NM

Client Sample ID: S-29 (0-1.5')

Lab Sample ID: 880-49112-17
Matrix: Solid
Date Collected: 09/26/24 11:35
Date Received: 09/27/24 13:45
Sample Depth: 0-1.5'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*	*09/30/24 11:16*	*10/01/24 02:10*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			10/01/24 02:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			10/03/24 23:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		09/29/24 20:42	10/03/24 23:11	1
Diesel Range Organics (Over C10-C28)	<49.7	U *1	49.7		mg/Kg		09/29/24 20:42	10/03/24 23:11	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		09/29/24 20:42	10/03/24 23:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*115*		*70 - 130*	*09/29/24 20:42*	*10/03/24 23:11*	*1*
o-Terphenyl	*102*		*70 - 130*	*09/29/24 20:42*	*10/03/24 23:11*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**10.6**		4.98		mg/Kg			10/02/24 00:47	1

Client Sample ID: S-30 (0-1.5')

Lab Sample ID: 880-49112-18
Matrix: Solid
Date Collected: 09/26/24 11:40
Date Received: 09/27/24 13:45
Sample Depth: 0-1.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/30/24 11:16	10/01/24 02:31	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/30/24 11:16	10/01/24 02:31	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/30/24 11:16	10/01/24 02:31	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/30/24 11:16	10/01/24 02:31	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/30/24 11:16	10/01/24 02:31	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/30/24 11:16	10/01/24 02:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*131*	*S1+*	*70 - 130*	*09/30/24 11:16*	*10/01/24 02:31*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*09/30/24 11:16*	*10/01/24 02:31*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			10/01/24 02:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/03/24 23:27	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-49112-1
SDG: Lea Co., NM

Client Sample ID: S-30 (0-1.5')

Lab Sample ID: 880-49112-18
Matrix: Solid
Date Collected: 09/26/24 11:40
Date Received: 09/27/24 13:45
Sample Depth: 0-1.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		09/29/24 20:42	10/03/24 23:27	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9		mg/Kg		09/29/24 20:42	10/03/24 23:27	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/29/24 20:42	10/03/24 23:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 130*	*09/29/24 20:42*	*10/03/24 23:27*	*1*
o-Terphenyl	*100*		*70 - 130*	*09/29/24 20:42*	*10/03/24 23:27*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			10/02/24 00:52	1

Client Sample ID: S-31 (0-1.5')

Lab Sample ID: 880-49112-19
Matrix: Solid
Date Collected: 09/26/24 11:45
Date Received: 09/27/24 13:45
Sample Depth: 0-1.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/30/24 11:16	10/01/24 02:51	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/30/24 11:16	10/01/24 02:51	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/30/24 11:16	10/01/24 02:51	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/30/24 11:16	10/01/24 02:51	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/30/24 11:16	10/01/24 02:51	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/30/24 11:16	10/01/24 02:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*138*	*S1+*	*70 - 130*	*09/30/24 11:16*	*10/01/24 02:51*	*1*
1,4-Difluorobenzene (Surr)	*120*		*70 - 130*	*09/30/24 11:16*	*10/01/24 02:51*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			10/01/24 02:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			10/03/24 17:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/29/24 20:42	10/03/24 17:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0		mg/Kg		09/29/24 20:42	10/03/24 17:28	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/29/24 20:42	10/03/24 17:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*09/29/24 20:42*	*10/03/24 17:28*	*1*
o-Terphenyl	*100*		*70 - 130*	*09/29/24 20:42*	*10/03/24 17:28*	*1*

Client Sample Results

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

Job ID: 880-49112-1
SDG: Lea Co., NM

Client Sample ID: S-31 (0-1.5')
Date Collected: 09/26/24 11:45
Date Received: 09/27/24 13:45
Sample Depth: 0-1.5'

Lab Sample ID: 880-49112-19
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.03		4.96		mg/Kg			10/02/24 01:09	1

Surrogate Summary

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

Job ID: 880-49112-1
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)
880-49112-1	S-2 (0-1.5')	95	87
880-49112-2	S-3 (2.5')	95	88
880-49112-3	S-4 (2.5')	93	89
880-49112-4	S-16 (0-1.5')	88	94
880-49112-5	S-17 (0-1.5')	88	95
880-49112-6	S-18 (1.5')	91	97
880-49112-7	S-19 (0-1.5')	92	84
880-49112-8	S-20 (0-1.5')	87	72
880-49112-9	S-21 (0-1.5')	90	95
880-49112-10	S-22 (0-1.5')	95	92
880-49112-11	S-23 (1.5')	110	99
880-49112-12	S-24 (0-1.5')	103	109
880-49112-12 MS	S-24 (0-1.5')	121	102
880-49112-12 MSD	S-24 (0-1.5')	125	100
880-49112-13	S-25 (0-1.5')	132 S1+	129
880-49112-14	S-26 (0-1.5')	137 S1+	114
880-49112-15	S-27 (0-1.5')	127	112
880-49112-16	S-28 (1.5')	123	112
880-49112-17	S-29 (0-1.5')	130	114
880-49112-18	S-30 (0-1.5')	131 S1+	112
880-49112-19	S-31 (0-1.5')	138 S1+	120
LCS 880-92116/1-A	Lab Control Sample	95	124
LCS 880-92120/1-A	Lab Control Sample	119	98
LCSD 880-92116/2-A	Lab Control Sample Dup	88	122
LCSD 880-92120/2-A	Lab Control Sample Dup	116	97
MB 880-91951/5-A	Method Blank	262 S1+	162 S1+
MB 880-92116/5-A	Method Blank	82	100
MB 880-92120/5-A	Method Blank	142 S1+	86

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-49112-1	S-2 (0-1.5')	114	102
880-49112-2	S-3 (2.5')	124	111
880-49112-3	S-4 (2.5')	113	102
880-49112-4	S-16 (0-1.5')	107	94
880-49112-5	S-17 (0-1.5')	114	104
880-49112-6	S-18 (1.5')	108	99
880-49112-7	S-19 (0-1.5')	106	97
880-49112-8	S-20 (0-1.5')	116	106
880-49112-9	S-21 (0-1.5')	111	102
880-49112-10	S-22 (0-1.5')	94	86
880-49112-11	S-23 (1.5')	108	96

Surrogate Summary

Client: Crain Environmental
Job ID: 880-49112-1
Project/Site: Chem State #1 E FL
SDG: Lea Co., NM

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

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

		Percent Surrogate Recovery (Acceptance Limits)											
		1CO1	OTPH1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
880-49112-12	S-24 (0-1.5')	113	100										
880-49112-13	S-25 (0-1.5')	115	104										
880-49112-14	S-26 (0-1.5')	109	98										
880-49112-15	S-27 (0-1.5')	106	94										
880-49112-16	S-28 (1.5')	109	99										
880-49112-17	S-29 (0-1.5')	115	102										
880-49112-18	S-30 (0-1.5')	110	100										
880-49112-19	S-31 (0-1.5')	107	100										
880-49112-19 MS	S-31 (0-1.5')	115	111										
880-49112-19 MSD	S-31 (0-1.5')	118	113										
LCS 880-92044/2-A	Lab Control Sample	110	113										
LCSD 880-92044/3-A	Lab Control Sample Dup	137 S1+	140 S1+										
MB 880-92044/1-A	Method Blank	150 S1+	144 S1+										

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

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

Job ID: 880-49112-1
SDG: Lea Co., NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-91951/5-A
Matrix: Solid
Analysis Batch: 92039

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 91951

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/27/24 14:56	09/30/24 12:26	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/27/24 14:56	09/30/24 12:26	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/27/24 14:56	09/30/24 12:26	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/27/24 14:56	09/30/24 12:26	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/27/24 14:56	09/30/24 12:26	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/27/24 14:56	09/30/24 12:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*262*	*S1+*	*70 - 130*	*09/27/24 14:56*	*09/30/24 12:26*	*1*
1,4-Difluorobenzene (Surr)	*162*	*S1+*	*70 - 130*	*09/27/24 14:56*	*09/30/24 12:26*	*1*

Lab Sample ID: MB 880-92116/5-A
Matrix: Solid
Analysis Batch: 92216

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 92116

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/30/24 10:59	10/01/24 11:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/30/24 10:59	10/01/24 11:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/30/24 10:59	10/01/24 11:35	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/30/24 10:59	10/01/24 11:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/30/24 10:59	10/01/24 11:35	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/30/24 10:59	10/01/24 11:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*		*70 - 130*	*09/30/24 10:59*	*10/01/24 11:35*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*09/30/24 10:59*	*10/01/24 11:35*	*1*

Lab Sample ID: LCS 880-92116/1-A
Matrix: Solid
Analysis Batch: 92216

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 92116

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1020		mg/Kg		102	70 - 130
Toluene	0.100	0.09374		mg/Kg		94	70 - 130
Ethylbenzene	0.100	0.08694		mg/Kg		87	70 - 130
m-Xylene & p-Xylene	0.200	0.1688		mg/Kg		84	70 - 130
o-Xylene	0.100	0.08385		mg/Kg		84	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*
1,4-Difluorobenzene (Surr)	*124*		*70 - 130*

Lab Sample ID: LCSD 880-92116/2-A
Matrix: Solid
Analysis Batch: 92216

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 92116

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1011		mg/Kg		101	70 - 130	1	35

QC Sample Results

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

Job ID: 880-49112-1
SDG: Lea Co., NM

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

Lab Sample ID: LCSD 880-92116/2-A
Matrix: Solid
Analysis Batch: 92216

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 92116

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.08761		mg/Kg		88	70 - 130	7	35
Ethylbenzene			0.100	0.08184		mg/Kg		82	70 - 130	6	35
m-Xylene & p-Xylene			0.200	0.1543		mg/Kg		77	70 - 130	9	35
o-Xylene			0.100	0.07753		mg/Kg		78	70 - 130	8	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*
1,4-Difluorobenzene (Surr)	*122*		*70 - 130*

Lab Sample ID: MB 880-92120/5-A
Matrix: Solid
Analysis Batch: 92039

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 92120

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/30/24 11:16	10/01/24 00:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/30/24 11:16	10/01/24 00:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/30/24 11:16	10/01/24 00:00	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/30/24 11:16	10/01/24 00:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/30/24 11:16	10/01/24 00:00	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/30/24 11:16	10/01/24 00:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*142*	*S1+*	*70 - 130*	*09/30/24 11:16*	*10/01/24 00:00*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*09/30/24 11:16*	*10/01/24 00:00*	*1*

Lab Sample ID: LCS 880-92120/1-A
Matrix: Solid
Analysis Batch: 92039

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 92120

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene			0.100	0.08764		mg/Kg		88	70 - 130
Toluene			0.100	0.08271		mg/Kg		83	70 - 130
Ethylbenzene			0.100	0.1065		mg/Kg		106	70 - 130
m-Xylene & p-Xylene			0.200	0.2359		mg/Kg		118	70 - 130
o-Xylene			0.100	0.1089		mg/Kg		109	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: LCSD 880-92120/2-A
Matrix: Solid
Analysis Batch: 92039

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 92120

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09365		mg/Kg		94	70 - 130	7	35
Toluene			0.100	0.08167		mg/Kg		82	70 - 130	1	35
Ethylbenzene			0.100	0.08929		mg/Kg		89	70 - 130	18	35

Eurofins Midland

QC Sample Results

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

Job ID: 880-49112-1
SDG: Lea Co., NM

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

Lab Sample ID: LCSD 880-92120/2-A
Matrix: Solid
Analysis Batch: 92039

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 92120

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m-Xylene & p-Xylene			0.200	0.2031		mg/Kg		102	70 - 130	15	35
o-Xylene			0.100	0.1039		mg/Kg		104	70 - 130	5	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: 880-49112-12 MS
Matrix: Solid
Analysis Batch: 92039

Client Sample ID: S-24 (0-1.5')
Prep Type: Total/NA
Prep Batch: 92120

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.100	0.1016		mg/Kg		102	70 - 130
Toluene	<0.00201	U	0.100	0.08717		mg/Kg		87	70 - 130
Ethylbenzene	<0.00201	U	0.100	0.1093		mg/Kg		109	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.200	0.2132		mg/Kg		107	70 - 130
o-Xylene	<0.00201	U	0.100	0.1069		mg/Kg		107	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: 880-49112-12 MSD
Matrix: Solid
Analysis Batch: 92039

Client Sample ID: S-24 (0-1.5')
Prep Type: Total/NA
Prep Batch: 92120

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.100	0.09911		mg/Kg		99	70 - 130	2	35
Toluene	<0.00201	U	0.100	0.08875		mg/Kg		89	70 - 130	2	35
Ethylbenzene	<0.00201	U	0.100	0.1078		mg/Kg		108	70 - 130	1	35
m-Xylene & p-Xylene	<0.00402	U	0.200	0.2369		mg/Kg		118	70 - 130	11	35
o-Xylene	<0.00201	U	0.100	0.1215		mg/Kg		122	70 - 130	13	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

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

Lab Sample ID: MB 880-92044/1-A
Matrix: Solid
Analysis Batch: 92508

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 92044

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/29/24 20:41	10/03/24 03:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/29/24 20:41	10/03/24 03:55	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/29/24 20:41	10/03/24 03:55	1

QC Sample Results

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

Job ID: 880-49112-1
SDG: Lea Co., NM

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	150	S1+	70 - 130	09/29/24 20:41	10/03/24 03:55	1
o-Terphenyl	144	S1+	70 - 130	09/29/24 20:41	10/03/24 03:55	1

Lab Sample ID: LCS 880-92044/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 92508 — **Prep Batch: 92044**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	876.3		mg/Kg		88	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	882.7		mg/Kg		88	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	110		70 - 130
o-Terphenyl	113		70 - 130

Lab Sample ID: LCSD 880-92044/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 92508 — **Prep Batch: 92044**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1067		mg/Kg		107	70 - 130	20	20
Diesel Range Organics (Over C10-C28)			1000	1128	*1	mg/Kg		113	70 - 130	24	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	137	S1+	70 - 130
o-Terphenyl	140	S1+	70 - 130

Lab Sample ID: 880-49112-19 MS — **Client Sample ID: S-31 (0-1.5')**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 92508 — **Prep Batch: 92044**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	995	816.2		mg/Kg		82	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U *1	995	767.4		mg/Kg		77	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	115		70 - 130
o-Terphenyl	111		70 - 130

Lab Sample ID: 880-49112-19 MSD — **Client Sample ID: S-31 (0-1.5')**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 92508 — **Prep Batch: 92044**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	995	821.0		mg/Kg		83	70 - 130	1	20

QC Sample Results

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

Job ID: 880-49112-1
SDG: Lea Co., NM

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

Lab Sample ID: 880-49112-19 MSD
Matrix: Solid
Analysis Batch: 92508

Client Sample ID: S-31 (0-1.5')
Prep Type: Total/NA
Prep Batch: 92044

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics (Over C10-C28)	<50.0	U *1	995	757.1		mg/Kg		76	70 - 130	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*118*		*70 - 130*
o-Terphenyl	*113*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-92158/1-A
Matrix: Solid
Analysis Batch: 92245

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			10/02/24 16:46	1

Lab Sample ID: LCS 880-92158/2-A
Matrix: Solid
Analysis Batch: 92245

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	251.5		mg/Kg		101	90 - 110

Lab Sample ID: LCSD 880-92158/3-A
Matrix: Solid
Analysis Batch: 92245

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	245.4		mg/Kg		98	90 - 110	2	20

Lab Sample ID: MB 880-92174/1-A
Matrix: Solid
Analysis Batch: 92249

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			10/01/24 23:20	1

Lab Sample ID: LCS 880-92174/2-A
Matrix: Solid
Analysis Batch: 92249

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	244.8		mg/Kg		98	90 - 110

Lab Sample ID: LCSD 880-92174/3-A
Matrix: Solid
Analysis Batch: 92249

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	245.4		mg/Kg		98	90 - 110	0	20

QC Sample Results

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

Job ID: 880-49112-1
SDG: Lea Co., NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-49112-8 MS
Matrix: Solid
Analysis Batch: 92249

Client Sample ID: S-20 (0-1.5')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	7.86		250	251.7		mg/Kg		98	90 - 110

Lab Sample ID: 880-49112-8 MSD
Matrix: Solid
Analysis Batch: 92249

Client Sample ID: S-20 (0-1.5')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	7.86		250	255.6		mg/Kg		99	90 - 110	2	20

Lab Sample ID: 880-49112-18 MS
Matrix: Solid
Analysis Batch: 92249

Client Sample ID: S-30 (0-1.5')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	<5.00	U	250	250.1		mg/Kg		99	90 - 110

Lab Sample ID: 880-49112-18 MSD
Matrix: Solid
Analysis Batch: 92249

Client Sample ID: S-30 (0-1.5')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	<5.00	U	250	250.1		mg/Kg		99	90 - 110	0	20

QC Association Summary

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

Job ID: 880-49112-1
SDG: Lea Co., NM

GC VOA

Prep Batch: 91951

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-91951/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 92039

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49112-12	S-24 (0-1.5')	Total/NA	Solid	8021B	92120
880-49112-13	S-25 (0-1.5')	Total/NA	Solid	8021B	92120
880-49112-14	S-26 (0-1.5')	Total/NA	Solid	8021B	92120
880-49112-15	S-27 (0-1.5')	Total/NA	Solid	8021B	92120
880-49112-16	S-28 (1.5')	Total/NA	Solid	8021B	92120
880-49112-17	S-29 (0-1.5')	Total/NA	Solid	8021B	92120
880-49112-18	S-30 (0-1.5')	Total/NA	Solid	8021B	92120
880-49112-19	S-31 (0-1.5')	Total/NA	Solid	8021B	92120
MB 880-91951/5-A	Method Blank	Total/NA	Solid	8021B	91951
MB 880-92120/5-A	Method Blank	Total/NA	Solid	8021B	92120
LCS 880-92120/1-A	Lab Control Sample	Total/NA	Solid	8021B	92120
LCSD 880-92120/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	92120
880-49112-12 MS	S-24 (0-1.5')	Total/NA	Solid	8021B	92120
880-49112-12 MSD	S-24 (0-1.5')	Total/NA	Solid	8021B	92120

Prep Batch: 92116

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49112-1	S-2 (0-1.5')	Total/NA	Solid	5035	
880-49112-2	S-3 (2.5')	Total/NA	Solid	5035	
880-49112-3	S-4 (2.5')	Total/NA	Solid	5035	
880-49112-4	S-16 (0-1.5')	Total/NA	Solid	5035	
880-49112-5	S-17 (0-1.5')	Total/NA	Solid	5035	
880-49112-6	S-18 (1.5')	Total/NA	Solid	5035	
880-49112-7	S-19 (0-1.5')	Total/NA	Solid	5035	
880-49112-8	S-20 (0-1.5')	Total/NA	Solid	5035	
880-49112-9	S-21 (0-1.5')	Total/NA	Solid	5035	
880-49112-10	S-22 (0-1.5')	Total/NA	Solid	5035	
880-49112-11	S-23 (1.5')	Total/NA	Solid	5035	
MB 880-92116/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-92116/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-92116/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 92120

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49112-12	S-24 (0-1.5')	Total/NA	Solid	5035	
880-49112-13	S-25 (0-1.5')	Total/NA	Solid	5035	
880-49112-14	S-26 (0-1.5')	Total/NA	Solid	5035	
880-49112-15	S-27 (0-1.5')	Total/NA	Solid	5035	
880-49112-16	S-28 (1.5')	Total/NA	Solid	5035	
880-49112-17	S-29 (0-1.5')	Total/NA	Solid	5035	
880-49112-18	S-30 (0-1.5')	Total/NA	Solid	5035	
880-49112-19	S-31 (0-1.5')	Total/NA	Solid	5035	
MB 880-92120/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-92120/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-92120/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-49112-12 MS	S-24 (0-1.5')	Total/NA	Solid	5035	
880-49112-12 MSD	S-24 (0-1.5')	Total/NA	Solid	5035	

QC Association Summary

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

Job ID: 880-49112-1
SDG: Lea Co., NM

GC VOA

Analysis Batch: 92216

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49112-1	S-2 (0-1.5')	Total/NA	Solid	8021B	92116
880-49112-2	S-3 (2.5')	Total/NA	Solid	8021B	92116
880-49112-3	S-4 (2.5')	Total/NA	Solid	8021B	92116
880-49112-4	S-16 (0-1.5')	Total/NA	Solid	8021B	92116
880-49112-5	S-17 (0-1.5')	Total/NA	Solid	8021B	92116
880-49112-6	S-18 (1.5')	Total/NA	Solid	8021B	92116
880-49112-7	S-19 (0-1.5')	Total/NA	Solid	8021B	92116
880-49112-8	S-20 (0-1.5')	Total/NA	Solid	8021B	92116
880-49112-9	S-21 (0-1.5')	Total/NA	Solid	8021B	92116
880-49112-10	S-22 (0-1.5')	Total/NA	Solid	8021B	92116
880-49112-11	S-23 (1.5')	Total/NA	Solid	8021B	92116
MB 880-92116/5-A	Method Blank	Total/NA	Solid	8021B	92116
LCS 880-92116/1-A	Lab Control Sample	Total/NA	Solid	8021B	92116
LCSD 880-92116/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	92116

Analysis Batch: 92266

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49112-1	S-2 (0-1.5')	Total/NA	Solid	Total BTEX	
880-49112-2	S-3 (2.5')	Total/NA	Solid	Total BTEX	
880-49112-3	S-4 (2.5')	Total/NA	Solid	Total BTEX	
880-49112-4	S-16 (0-1.5')	Total/NA	Solid	Total BTEX	
880-49112-5	S-17 (0-1.5')	Total/NA	Solid	Total BTEX	
880-49112-6	S-18 (1.5')	Total/NA	Solid	Total BTEX	
880-49112-7	S-19 (0-1.5')	Total/NA	Solid	Total BTEX	
880-49112-8	S-20 (0-1.5')	Total/NA	Solid	Total BTEX	
880-49112-9	S-21 (0-1.5')	Total/NA	Solid	Total BTEX	
880-49112-10	S-22 (0-1.5')	Total/NA	Solid	Total BTEX	
880-49112-11	S-23 (1.5')	Total/NA	Solid	Total BTEX	
880-49112-12	S-24 (0-1.5')	Total/NA	Solid	Total BTEX	
880-49112-13	S-25 (0-1.5')	Total/NA	Solid	Total BTEX	
880-49112-14	S-26 (0-1.5')	Total/NA	Solid	Total BTEX	
880-49112-15	S-27 (0-1.5')	Total/NA	Solid	Total BTEX	
880-49112-16	S-28 (1.5')	Total/NA	Solid	Total BTEX	
880-49112-17	S-29 (0-1.5')	Total/NA	Solid	Total BTEX	
880-49112-18	S-30 (0-1.5')	Total/NA	Solid	Total BTEX	
880-49112-19	S-31 (0-1.5')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 92044

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49112-1	S-2 (0-1.5')	Total/NA	Solid	8015NM Prep	
880-49112-2	S-3 (2.5')	Total/NA	Solid	8015NM Prep	
880-49112-3	S-4 (2.5')	Total/NA	Solid	8015NM Prep	
880-49112-4	S-16 (0-1.5')	Total/NA	Solid	8015NM Prep	
880-49112-5	S-17 (0-1.5')	Total/NA	Solid	8015NM Prep	
880-49112-6	S-18 (1.5')	Total/NA	Solid	8015NM Prep	
880-49112-7	S-19 (0-1.5')	Total/NA	Solid	8015NM Prep	
880-49112-8	S-20 (0-1.5')	Total/NA	Solid	8015NM Prep	
880-49112-9	S-21 (0-1.5')	Total/NA	Solid	8015NM Prep	
880-49112-10	S-22 (0-1.5')	Total/NA	Solid	8015NM Prep	

QC Association Summary

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

Job ID: 880-49112-1
SDG: Lea Co., NM

GC Semi VOA (Continued)

Prep Batch: 92044 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49112-11	S-23 (1.5')	Total/NA	Solid	8015NM Prep	
880-49112-12	S-24 (0-1.5')	Total/NA	Solid	8015NM Prep	
880-49112-13	S-25 (0-1.5')	Total/NA	Solid	8015NM Prep	
880-49112-14	S-26 (0-1.5')	Total/NA	Solid	8015NM Prep	
880-49112-15	S-27 (0-1.5')	Total/NA	Solid	8015NM Prep	
880-49112-16	S-28 (1.5')	Total/NA	Solid	8015NM Prep	
880-49112-17	S-29 (0-1.5')	Total/NA	Solid	8015NM Prep	
880-49112-18	S-30 (0-1.5')	Total/NA	Solid	8015NM Prep	
880-49112-19	S-31 (0-1.5')	Total/NA	Solid	8015NM Prep	
MB 880-92044/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-92044/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-92044/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-49112-19 MS	S-31 (0-1.5')	Total/NA	Solid	8015NM Prep	
880-49112-19 MSD	S-31 (0-1.5')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 92508

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49112-1	S-2 (0-1.5')	Total/NA	Solid	8015B NM	92044
880-49112-2	S-3 (2.5')	Total/NA	Solid	8015B NM	92044
880-49112-3	S-4 (2.5')	Total/NA	Solid	8015B NM	92044
880-49112-4	S-16 (0-1.5')	Total/NA	Solid	8015B NM	92044
880-49112-5	S-17 (0-1.5')	Total/NA	Solid	8015B NM	92044
880-49112-6	S-18 (1.5')	Total/NA	Solid	8015B NM	92044
880-49112-7	S-19 (0-1.5')	Total/NA	Solid	8015B NM	92044
880-49112-8	S-20 (0-1.5')	Total/NA	Solid	8015B NM	92044
880-49112-9	S-21 (0-1.5')	Total/NA	Solid	8015B NM	92044
880-49112-10	S-22 (0-1.5')	Total/NA	Solid	8015B NM	92044
880-49112-11	S-23 (1.5')	Total/NA	Solid	8015B NM	92044
880-49112-12	S-24 (0-1.5')	Total/NA	Solid	8015B NM	92044
880-49112-13	S-25 (0-1.5')	Total/NA	Solid	8015B NM	92044
880-49112-14	S-26 (0-1.5')	Total/NA	Solid	8015B NM	92044
880-49112-15	S-27 (0-1.5')	Total/NA	Solid	8015B NM	92044
880-49112-16	S-28 (1.5')	Total/NA	Solid	8015B NM	92044
880-49112-17	S-29 (0-1.5')	Total/NA	Solid	8015B NM	92044
880-49112-18	S-30 (0-1.5')	Total/NA	Solid	8015B NM	92044
880-49112-19	S-31 (0-1.5')	Total/NA	Solid	8015B NM	92044
MB 880-92044/1-A	Method Blank	Total/NA	Solid	8015B NM	92044
LCS 880-92044/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	92044
LCSD 880-92044/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	92044
880-49112-19 MS	S-31 (0-1.5')	Total/NA	Solid	8015B NM	92044
880-49112-19 MSD	S-31 (0-1.5')	Total/NA	Solid	8015B NM	92044

Analysis Batch: 92577

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49112-1	S-2 (0-1.5')	Total/NA	Solid	8015 NM	
880-49112-2	S-3 (2.5')	Total/NA	Solid	8015 NM	
880-49112-3	S-4 (2.5')	Total/NA	Solid	8015 NM	
880-49112-4	S-16 (0-1.5')	Total/NA	Solid	8015 NM	
880-49112-5	S-17 (0-1.5')	Total/NA	Solid	8015 NM	
880-49112-6	S-18 (1.5')	Total/NA	Solid	8015 NM	
880-49112-7	S-19 (0-1.5')	Total/NA	Solid	8015 NM	

QC Association Summary

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

Job ID: 880-49112-1
SDG: Lea Co., NM

GC Semi VOA (Continued)

Analysis Batch: 92577 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49112-8	S-20 (0-1.5')	Total/NA	Solid	8015 NM	
880-49112-9	S-21 (0-1.5')	Total/NA	Solid	8015 NM	
880-49112-10	S-22 (0-1.5')	Total/NA	Solid	8015 NM	
880-49112-11	S-23 (1.5')	Total/NA	Solid	8015 NM	
880-49112-12	S-24 (0-1.5')	Total/NA	Solid	8015 NM	
880-49112-13	S-25 (0-1.5')	Total/NA	Solid	8015 NM	
880-49112-14	S-26 (0-1.5')	Total/NA	Solid	8015 NM	
880-49112-15	S-27 (0-1.5')	Total/NA	Solid	8015 NM	
880-49112-16	S-28 (1.5')	Total/NA	Solid	8015 NM	
880-49112-17	S-29 (0-1.5')	Total/NA	Solid	8015 NM	
880-49112-18	S-30 (0-1.5')	Total/NA	Solid	8015 NM	
880-49112-19	S-31 (0-1.5')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 92158

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49112-1	S-2 (0-1.5')	Soluble	Solid	DI Leach	
880-49112-2	S-3 (2.5')	Soluble	Solid	DI Leach	
880-49112-3	S-4 (2.5')	Soluble	Solid	DI Leach	
880-49112-4	S-16 (0-1.5')	Soluble	Solid	DI Leach	
880-49112-5	S-17 (0-1.5')	Soluble	Solid	DI Leach	
880-49112-6	S-18 (1.5')	Soluble	Solid	DI Leach	
880-49112-7	S-19 (0-1.5')	Soluble	Solid	DI Leach	
MB 880-92158/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-92158/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-92158/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Leach Batch: 92174

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49112-8	S-20 (0-1.5')	Soluble	Solid	DI Leach	
880-49112-9	S-21 (0-1.5')	Soluble	Solid	DI Leach	
880-49112-10	S-22 (0-1.5')	Soluble	Solid	DI Leach	
880-49112-11	S-23 (1.5')	Soluble	Solid	DI Leach	
880-49112-12	S-24 (0-1.5')	Soluble	Solid	DI Leach	
880-49112-13	S-25 (0-1.5')	Soluble	Solid	DI Leach	
880-49112-14	S-26 (0-1.5')	Soluble	Solid	DI Leach	
880-49112-15	S-27 (0-1.5')	Soluble	Solid	DI Leach	
880-49112-16	S-28 (1.5')	Soluble	Solid	DI Leach	
880-49112-17	S-29 (0-1.5')	Soluble	Solid	DI Leach	
880-49112-18	S-30 (0-1.5')	Soluble	Solid	DI Leach	
880-49112-19	S-31 (0-1.5')	Soluble	Solid	DI Leach	
MB 880-92174/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-92174/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-92174/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-49112-8 MS	S-20 (0-1.5')	Soluble	Solid	DI Leach	
880-49112-8 MSD	S-20 (0-1.5')	Soluble	Solid	DI Leach	
880-49112-18 MS	S-30 (0-1.5')	Soluble	Solid	DI Leach	
880-49112-18 MSD	S-30 (0-1.5')	Soluble	Solid	DI Leach	

QC Association Summary

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

Job ID: 880-49112-1
SDG: Lea Co., NM

HPLC/IC

Analysis Batch: 92245

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49112-1	S-2 (0-1.5')	Soluble	Solid	300.0	92158
880-49112-2	S-3 (2.5')	Soluble	Solid	300.0	92158
880-49112-3	S-4 (2.5')	Soluble	Solid	300.0	92158
880-49112-4	S-16 (0-1.5')	Soluble	Solid	300.0	92158
880-49112-5	S-17 (0-1.5')	Soluble	Solid	300.0	92158
880-49112-6	S-18 (1.5')	Soluble	Solid	300.0	92158
880-49112-7	S-19 (0-1.5')	Soluble	Solid	300.0	92158
MB 880-92158/1-A	Method Blank	Soluble	Solid	300.0	92158
LCS 880-92158/2-A	Lab Control Sample	Soluble	Solid	300.0	92158
LCSD 880-92158/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	92158

Analysis Batch: 92249

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49112-8	S-20 (0-1.5')	Soluble	Solid	300.0	92174
880-49112-9	S-21 (0-1.5')	Soluble	Solid	300.0	92174
880-49112-10	S-22 (0-1.5')	Soluble	Solid	300.0	92174
880-49112-11	S-23 (1.5')	Soluble	Solid	300.0	92174
880-49112-12	S-24 (0-1.5')	Soluble	Solid	300.0	92174
880-49112-13	S-25 (0-1.5')	Soluble	Solid	300.0	92174
880-49112-14	S-26 (0-1.5')	Soluble	Solid	300.0	92174
880-49112-15	S-27 (0-1.5')	Soluble	Solid	300.0	92174
880-49112-16	S-28 (1.5')	Soluble	Solid	300.0	92174
880-49112-17	S-29 (0-1.5')	Soluble	Solid	300.0	92174
880-49112-18	S-30 (0-1.5')	Soluble	Solid	300.0	92174
880-49112-19	S-31 (0-1.5')	Soluble	Solid	300.0	92174
MB 880-92174/1-A	Method Blank	Soluble	Solid	300.0	92174
LCS 880-92174/2-A	Lab Control Sample	Soluble	Solid	300.0	92174
LCSD 880-92174/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	92174
880-49112-8 MS	S-20 (0-1.5')	Soluble	Solid	300.0	92174
880-49112-8 MSD	S-20 (0-1.5')	Soluble	Solid	300.0	92174
880-49112-18 MS	S-30 (0-1.5')	Soluble	Solid	300.0	92174
880-49112-18 MSD	S-30 (0-1.5')	Soluble	Solid	300.0	92174

Lab Chronicle

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

Job ID: 880-49112-1
SDG: Lea Co., NM

Client Sample ID: S-2 (0-1.5')

Lab Sample ID: 880-49112-1
Matrix: Solid
Date Collected: 09/26/24 10:15
Date Received: 09/27/24 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	92116	09/30/24 10:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92216	10/01/24 15:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			92266	10/01/24 15:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			92577	10/03/24 18:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10.00 mL	92044	09/29/24 20:42	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92508	10/03/24 18:34	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	92158	09/30/24 13:44	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	92245	10/02/24 19:19	CH	EET MID

Client Sample ID: S-3 (2.5')

Lab Sample ID: 880-49112-2
Matrix: Solid
Date Collected: 09/26/24 10:20
Date Received: 09/27/24 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	92116	09/30/24 10:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92216	10/01/24 16:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			92266	10/01/24 16:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			92577	10/03/24 18:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10.00 mL	92044	09/29/24 20:42	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92508	10/03/24 18:51	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	92158	09/30/24 13:44	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	92245	10/02/24 19:25	CH	EET MID

Client Sample ID: S-4 (2.5')

Lab Sample ID: 880-49112-3
Matrix: Solid
Date Collected: 09/26/24 10:25
Date Received: 09/27/24 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	92116	09/30/24 10:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92216	10/01/24 16:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			92266	10/01/24 16:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			92577	10/03/24 19:08	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10.00 mL	92044	09/29/24 20:42	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92508	10/03/24 19:08	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	92158	09/30/24 13:44	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	92245	10/02/24 19:32	CH	EET MID

Client Sample ID: S-16 (0-1.5')

Lab Sample ID: 880-49112-4
Matrix: Solid
Date Collected: 09/26/24 10:30
Date Received: 09/27/24 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	92116	09/30/24 10:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92216	10/01/24 17:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			92266	10/01/24 17:08	SM	EET MID

Lab Chronicle

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

Job ID: 880-49112-1
SDG: Lea Co., NM

Client Sample ID: S-16 (0-1.5')

Lab Sample ID: 880-49112-4
Matrix: Solid
Date Collected: 09/26/24 10:30
Date Received: 09/27/24 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			92577	10/03/24 19:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10.00 mL	92044	09/29/24 20:42	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92508	10/03/24 19:25	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	92158	09/30/24 13:44	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	92245	10/02/24 19:38	CH	EET MID

Client Sample ID: S-17 (0-1.5')

Lab Sample ID: 880-49112-5
Matrix: Solid
Date Collected: 09/26/24 10:35
Date Received: 09/27/24 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	92116	09/30/24 10:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92216	10/01/24 17:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			92266	10/01/24 17:28	SM	EET MID
Total/NA	Analysis	8015 NM		1			92577	10/03/24 19:41	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10.00 mL	92044	09/29/24 20:42	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92508	10/03/24 19:41	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	92158	09/30/24 13:44	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	92245	10/02/24 19:44	CH	EET MID

Client Sample ID: S-18 (1.5')

Lab Sample ID: 880-49112-6
Matrix: Solid
Date Collected: 09/26/24 10:40
Date Received: 09/27/24 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	92116	09/30/24 10:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92216	10/01/24 17:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			92266	10/01/24 17:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			92577	10/03/24 19:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10.00 mL	92044	09/29/24 20:42	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92508	10/03/24 19:58	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	92158	09/30/24 13:44	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	92245	10/02/24 19:51	CH	EET MID

Client Sample ID: S-19 (0-1.5')

Lab Sample ID: 880-49112-7
Matrix: Solid
Date Collected: 09/26/24 10:45
Date Received: 09/27/24 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	92116	09/30/24 10:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92216	10/01/24 18:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			92266	10/01/24 18:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			92577	10/03/24 20:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10.00 mL	92044	09/29/24 20:42	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92508	10/03/24 20:14	TKC	EET MID

Lab Chronicle

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

Job ID: 880-49112-1
SDG: Lea Co., NM

Client Sample ID: S-19 (0-1.5')

Lab Sample ID: 880-49112-7
Matrix: Solid
Date Collected: 09/26/24 10:45
Date Received: 09/27/24 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	92158	09/30/24 13:44	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	92245	10/02/24 19:57	CH	EET MID

Client Sample ID: S-20 (0-1.5')

Lab Sample ID: 880-49112-8
Matrix: Solid
Date Collected: 09/26/24 10:50
Date Received: 09/27/24 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	92116	09/30/24 10:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92216	10/01/24 18:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			92266	10/01/24 18:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			92577	10/03/24 20:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10.00 mL	92044	09/29/24 20:42	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92508	10/03/24 20:31	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	92174	09/30/24 15:58	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	92249	10/01/24 23:36	CH	EET MID

Client Sample ID: S-21 (0-1.5')

Lab Sample ID: 880-49112-9
Matrix: Solid
Date Collected: 09/26/24 10:55
Date Received: 09/27/24 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	92116	09/30/24 10:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92216	10/01/24 18:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			92266	10/01/24 18:50	SM	EET MID
Total/NA	Analysis	8015 NM		1			92577	10/03/24 21:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10.00 mL	92044	09/29/24 20:42	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92508	10/03/24 21:03	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	92174	09/30/24 15:58	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	92249	10/01/24 23:53	CH	EET MID

Client Sample ID: S-22 (0-1.5')

Lab Sample ID: 880-49112-10
Matrix: Solid
Date Collected: 09/26/24 11:00
Date Received: 09/27/24 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	92116	09/30/24 10:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92216	10/01/24 19:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			92266	10/01/24 19:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			92577	10/03/24 21:19	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10.00 mL	92044	09/29/24 20:42	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92508	10/03/24 21:19	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	92174	09/30/24 15:58	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	92249	10/01/24 23:58	CH	EET MID

Lab Chronicle

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

Job ID: 880-49112-1
SDG: Lea Co., NM

Client Sample ID: S-23 (1.5')

Lab Sample ID: 880-49112-11
Matrix: Solid
Date Collected: 09/26/24 11:05
Date Received: 09/27/24 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	92116	09/30/24 10:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92216	10/01/24 19:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			92266	10/01/24 19:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			92577	10/03/24 21:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10.00 mL	92044	09/29/24 20:42	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92508	10/03/24 21:35	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	92174	09/30/24 15:58	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	92249	10/02/24 00:03	CH	EET MID

Client Sample ID: S-24 (0-1.5')

Lab Sample ID: 880-49112-12
Matrix: Solid
Date Collected: 09/26/24 11:10
Date Received: 09/27/24 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	92120	09/30/24 11:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92039	10/01/24 00:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			92266	10/01/24 00:28	SM	EET MID
Total/NA	Analysis	8015 NM		1			92577	10/03/24 21:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10.00 mL	92044	09/29/24 20:42	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92508	10/03/24 21:51	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	92174	09/30/24 15:58	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	92249	10/02/24 00:09	CH	EET MID

Client Sample ID: S-25 (0-1.5')

Lab Sample ID: 880-49112-13
Matrix: Solid
Date Collected: 09/26/24 11:15
Date Received: 09/27/24 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	92120	09/30/24 11:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92039	10/01/24 00:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			92266	10/01/24 00:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			92577	10/03/24 22:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10.00 mL	92044	09/29/24 20:42	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92508	10/03/24 22:07	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	92174	09/30/24 15:58	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	92249	10/02/24 00:25	CH	EET MID

Client Sample ID: S-26 (0-1.5')

Lab Sample ID: 880-49112-14
Matrix: Solid
Date Collected: 09/26/24 11:20
Date Received: 09/27/24 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	92120	09/30/24 11:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92039	10/01/24 01:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			92266	10/01/24 01:09	SM	EET MID

Eurofins Midland

Lab Chronicle

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

Job ID: 880-49112-1
SDG: Lea Co., NM

Client Sample ID: S-26 (0-1.5')

Lab Sample ID: 880-49112-14
Matrix: Solid
Date Collected: 09/26/24 11:20
Date Received: 09/27/24 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			92577	10/03/24 22:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10.00 mL	92044	09/29/24 20:42	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92508	10/03/24 22:23	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	92174	09/30/24 15:58	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	92249	10/02/24 00:31	CH	EET MID

Client Sample ID: S-27 (0-1.5')

Lab Sample ID: 880-49112-15
Matrix: Solid
Date Collected: 09/26/24 11:25
Date Received: 09/27/24 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	92120	09/30/24 11:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92039	10/01/24 01:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			92266	10/01/24 01:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			92577	10/03/24 22:39	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10.00 mL	92044	09/29/24 20:42	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92508	10/03/24 22:39	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	92174	09/30/24 15:58	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	92249	10/02/24 00:36	CH	EET MID

Client Sample ID: S-28 (1.5')

Lab Sample ID: 880-49112-16
Matrix: Solid
Date Collected: 09/26/24 11:30
Date Received: 09/27/24 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	92120	09/30/24 11:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92039	10/01/24 01:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			92266	10/01/24 01:50	SM	EET MID
Total/NA	Analysis	8015 NM		1			92577	10/03/24 22:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10.00 mL	92044	09/29/24 20:42	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92508	10/03/24 22:55	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	92174	09/30/24 15:58	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	92249	10/02/24 00:42	CH	EET MID

Client Sample ID: S-29 (0-1.5')

Lab Sample ID: 880-49112-17
Matrix: Solid
Date Collected: 09/26/24 11:35
Date Received: 09/27/24 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	92120	09/30/24 11:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92039	10/01/24 02:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			92266	10/01/24 02:10	SM	EET MID
Total/NA	Analysis	8015 NM		1			92577	10/03/24 23:11	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10.00 mL	92044	09/29/24 20:42	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92508	10/03/24 23:11	TKC	EET MID

Lab Chronicle

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

Job ID: 880-49112-1
SDG: Lea Co., NM

Client Sample ID: S-29 (0-1.5')

Lab Sample ID: 880-49112-17
Matrix: Solid
Date Collected: 09/26/24 11:35
Date Received: 09/27/24 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	92174	09/30/24 15:58	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	92249	10/02/24 00:47	CH	EET MID

Client Sample ID: S-30 (0-1.5')

Lab Sample ID: 880-49112-18
Matrix: Solid
Date Collected: 09/26/24 11:40
Date Received: 09/27/24 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	92120	09/30/24 11:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92039	10/01/24 02:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			92266	10/01/24 02:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			92577	10/03/24 23:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10.00 mL	92044	09/29/24 20:42	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92508	10/03/24 23:27	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	92174	09/30/24 15:58	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	92249	10/02/24 00:52	CH	EET MID

Client Sample ID: S-31 (0-1.5')

Lab Sample ID: 880-49112-19
Matrix: Solid
Date Collected: 09/26/24 11:45
Date Received: 09/27/24 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	92120	09/30/24 11:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92039	10/01/24 02:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			92266	10/01/24 02:51	SM	EET MID
Total/NA	Analysis	8015 NM		1			92577	10/03/24 17:28	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10.00 mL	92044	09/29/24 20:42	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92508	10/03/24 17:28	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	92174	09/30/24 15:58	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	92249	10/02/24 01:09	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 880-49112-1
SDG: Lea Co., NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

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

Job ID: 880-49112-1
SDG: Lea Co., NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

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

Job ID: 880-49112-1
SDG: Lea Co., NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-49112-1	S-2 (0-1.5')	Solid	09/26/24 10:15	09/27/24 13:45	0-1.5'
880-49112-2	S-3 (2.5')	Solid	09/26/24 10:20	09/27/24 13:45	1.5'
880-49112-3	S-4 (2.5')	Solid	09/26/24 10:25	09/27/24 13:45	1.5'
880-49112-4	S-16 (0-1.5')	Solid	09/26/24 10:30	09/27/24 13:45	0-1.5'
880-49112-5	S-17 (0-1.5')	Solid	09/26/24 10:35	09/27/24 13:45	0-1.5'
880-49112-6	S-18 (1.5')	Solid	09/26/24 10:40	09/27/24 13:45	1.5'
880-49112-7	S-19 (0-1.5')	Solid	09/26/24 10:45	09/27/24 13:45	0-1.5'
880-49112-8	S-20 (0-1.5')	Solid	09/26/24 10:50	09/27/24 13:45	0-1.5'
880-49112-9	S-21 (0-1.5')	Solid	09/26/24 10:55	09/27/24 13:45	0-1.5'
880-49112-10	S-22 (0-1.5')	Solid	09/26/24 11:00	09/27/24 13:45	0-1.5'
880-49112-11	S-23 (1.5')	Solid	09/26/24 11:05	09/27/24 13:45	1.5'
880-49112-12	S-24 (0-1.5')	Solid	09/26/24 11:10	09/27/24 13:45	0-1.5'
880-49112-13	S-25 (0-1.5')	Solid	09/26/24 11:15	09/27/24 13:45	0-1.5'
880-49112-14	S-26 (0-1.5')	Solid	09/26/24 11:20	09/27/24 13:45	0-1.5'
880-49112-15	S-27 (0-1.5')	Solid	09/26/24 11:25	09/27/24 13:45	0-1.5'
880-49112-16	S-28 (1.5')	Solid	09/26/24 11:30	09/27/24 13:45	1.5'
880-49112-17	S-29 (0-1.5')	Solid	09/26/24 11:35	09/27/24 13:45	0-1.5'
880-49112-18	S-30 (0-1.5')	Solid	09/26/24 11:40	09/27/24 13:45	0-1.5'
880-49112-19	S-31 (0-1.5')	Solid	09/26/24 11:45	09/27/24 13:45	0-1.5'

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Chain of Custody

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

Wo 880-49112 Chain of Custody

www.xenco.com Page 1 of 2

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

Work Order Comments

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

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

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	IR6
Cooler Custody Seals:	Yes No N/A	Correction Factor:	+/-
Sample Custody Seals:	Yes No N/A	Temperature Reading:	3.2
Total Containers:		Corrected Temperature:	3.1

Preservative Codes

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

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: TPH 8015M	BTEX	Chlorides	Sample Comments
S-2 (0-1.5')	S	9/26/24	1015	0-1.5'	C	1		X	X	X	
S-3 (1.5')			1020	1.5'							
S-4 (1.5')			1025	1.5'							
S-16 (0-1.5')			1030	0-1.5'							
S-17 (0-1.5')			1035	0-1.5'							
S-18 (1.5')			1040	1.5'							
S-19 (0-1.5')			1045	0-1.5'							
S-20 (0-1.5')			1050	0-1.5'							
S-21 (0-1.5')			1055	0-1.5'							
S-22 (0-1.5')			1100	0-1.5'							

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Cindy Crain		9/27/24 1345	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

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Chain of Custody

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

Work Order No: 49112

www.xenco.com Page 2 of 2

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

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

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

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Samples Received Intact:	(Yes) No	Thermometer ID:	IR4
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	+1
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	3.2
Total Containers:		Corrected Temperature:	3.2

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

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: TPH 8015M	BTEX	Chlorides	Sample Comments
S-23 (1.5')	S	9/26/24	1105	1.5'	C	1		X	X	X	
S-24 (0-1.5')			1110	0-1.5'							
S-25 (0-1.5')			1115	0-1.5'							
S-26 (0-1.5')			1120	0-1.5'							
S-27 (0-1.5')			1125	0-1.5'							
S-28 (1.5')			1130	1.5'							
S-29 (0-1.5')			1135	0-1.5'							
S-30 (0-1.5')			1140	0-1.5'							
S-31 (0-1.5')			1145	0-1.5'							

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Cindy Crain		9/27/24 1345	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Crain Environmental

Job Number: 880-49112-1
SDG Number: Lea Co., NM

Login Number: 49112
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 10/2/2024 12:05:49 PM

JOB DESCRIPTION

Chem State #1 S FL
Lea Co., NM

JOB NUMBER

880-49103-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

my EOL

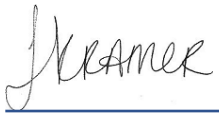
Eurofins Midland

Job Notes

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

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

Authorization



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10/2/2024 12:05:49 PM

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

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

Laboratory Job ID: 880-49103-1
SDG: Lea Co., NM

Table of Contents

Definitions/Glossary

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

Job ID: 880-49103-1
SDG: Lea Co., NM

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Crain Environmental
Project: Chem State #1 S FL

Job ID: 880-49103-1

Job ID: 880-49103-1 Eurofins Midland

Job Narrative
880-49103-1

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-7 (2.5') (880-49103-1), S-32 (0-2.5') (880-49103-2), S-33 (0-2.5') (880-49103-3), S-34 (0-2.5') (880-49103-4) and S-35 (0-2.5') (880-49103-5).

GC VOA
Method 8021B: The continuing calibration verification (CCV) associated with batch 880-92061 recovered above the upper control limit for Ethylbenzene and m-Xylene & p-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-92061/20).

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-92061 recovered above the upper control limit for Ethylbenzene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-92061/51).

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 880-91963 and analytical batch 880-92182 was outside the control limits.

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: S-33 (0-2.5') (880-49103-3). Percent recoveries are based on the amount spiked.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCSD 880-91963/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-92182 recovered above the upper control limit for Diesel Range Organics (Over C10-C28). An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-92182/48).

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

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

Client Sample Results

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

Job ID: 880-49103-1
SDG: Lea Co., NM

Client Sample ID: S-7 (2.5')

Lab Sample ID: 880-49103-1
Matrix: Solid
Date Collected: 09/26/24 12:00
Date Received: 09/27/24 13:45
Sample Depth: 2.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/30/24 11:13	10/01/24 05:04	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/30/24 11:13	10/01/24 05:04	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/30/24 11:13	10/01/24 05:04	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/30/24 11:13	10/01/24 05:04	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/30/24 11:13	10/01/24 05:04	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/30/24 11:13	10/01/24 05:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*09/30/24 11:13*	*10/01/24 05:04*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*09/30/24 11:13*	*10/01/24 05:04*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			10/01/24 05:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			10/01/24 04:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		09/27/24 15:27	10/01/24 04:02	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		09/27/24 15:27	10/01/24 04:02	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		09/27/24 15:27	10/01/24 04:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*80*		*70 - 130*	*09/27/24 15:27*	*10/01/24 04:02*	*1*
o-Terphenyl	*87*		*70 - 130*	*09/27/24 15:27*	*10/01/24 04:02*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**27.9**		5.04		mg/Kg			10/01/24 18:02	1

Client Sample ID: S-32 (0-2.5')

Lab Sample ID: 880-49103-2
Matrix: Solid
Date Collected: 09/26/24 12:05
Date Received: 09/27/24 13:45
Sample Depth: 0-2.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/30/24 11:13	10/01/24 05:24	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/30/24 11:13	10/01/24 05:24	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/30/24 11:13	10/01/24 05:24	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/30/24 11:13	10/01/24 05:24	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/30/24 11:13	10/01/24 05:24	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/30/24 11:13	10/01/24 05:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*09/30/24 11:13*	*10/01/24 05:24*	*1*

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Client Sample Results

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

Job ID: 880-49103-1
SDG: Lea Co., NM

Client Sample ID: S-32 (0-2.5')

Lab Sample ID: 880-49103-2
Matrix: Solid
Date Collected: 09/26/24 12:05
Date Received: 09/27/24 13:45
Sample Depth: 0-2.5'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*	*09/30/24 11:13*	*10/01/24 05:24*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/01/24 05:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**274**		50.0		mg/Kg			10/01/24 04:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/27/24 15:27	10/01/24 04:18	1
Diesel Range Organics (Over C10-C28)	**274**		50.0		mg/Kg		09/27/24 15:27	10/01/24 04:18	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/27/24 15:27	10/01/24 04:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*81*		*70 - 130*	*09/27/24 15:27*	*10/01/24 04:18*	*1*
o-Terphenyl	*84*		*70 - 130*	*09/27/24 15:27*	*10/01/24 04:18*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**24.7**		4.97		mg/Kg			10/01/24 18:07	1

Client Sample ID: S-33 (0-2.5')

Lab Sample ID: 880-49103-3
Matrix: Solid
Date Collected: 09/26/24 12:10
Date Received: 09/27/24 13:45
Sample Depth: 0-2.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/30/24 11:13	10/01/24 05:45	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/30/24 11:13	10/01/24 05:45	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/30/24 11:13	10/01/24 05:45	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/30/24 11:13	10/01/24 05:45	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/30/24 11:13	10/01/24 05:45	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/30/24 11:13	10/01/24 05:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*09/30/24 11:13*	*10/01/24 05:45*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*09/30/24 11:13*	*10/01/24 05:45*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			10/01/24 05:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/01/24 04:32	1

Eurofins Midland

Client Sample Results

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

Job ID: 880-49103-1
SDG: Lea Co., NM

Client Sample ID: S-33 (0-2.5')

Lab Sample ID: 880-49103-3
Matrix: Solid
Date Collected: 09/26/24 12:10
Date Received: 09/27/24 13:45
Sample Depth: 0-2.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		09/27/24 15:27	10/01/24 04:32	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/27/24 15:27	10/01/24 04:32	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/27/24 15:27	10/01/24 04:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*131*	*S1+*	*70 - 130*	*09/27/24 15:27*	*10/01/24 04:32*	*1*
o-Terphenyl	*132*	*S1+*	*70 - 130*	*09/27/24 15:27*	*10/01/24 04:32*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**20.7**		4.96		mg/Kg			10/01/24 18:12	1

Client Sample ID: S-34 (0-2.5')

Lab Sample ID: 880-49103-4
Matrix: Solid
Date Collected: 09/26/24 12:15
Date Received: 09/27/24 13:45
Sample Depth: 0-2.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/30/24 11:13	10/01/24 06:05	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/30/24 11:13	10/01/24 06:05	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/30/24 11:13	10/01/24 06:05	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		09/30/24 11:13	10/01/24 06:05	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/30/24 11:13	10/01/24 06:05	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		09/30/24 11:13	10/01/24 06:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*09/30/24 11:13*	*10/01/24 06:05*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*09/30/24 11:13*	*10/01/24 06:05*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			10/01/24 06:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**309**		50.0		mg/Kg			10/01/24 04:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/27/24 15:27	10/01/24 04:48	1
Diesel Range Organics (Over C10-C28)	**309**		50.0		mg/Kg		09/27/24 15:27	10/01/24 04:48	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/27/24 15:27	10/01/24 04:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*09/27/24 15:27*	*10/01/24 04:48*	*1*
o-Terphenyl	*99*		*70 - 130*	*09/27/24 15:27*	*10/01/24 04:48*	*1*

Client Sample Results

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

Job ID: 880-49103-1
SDG: Lea Co., NM

Client Sample ID: S-34 (0-2.5')

Lab Sample ID: 880-49103-4
Matrix: Solid
Date Collected: 09/26/24 12:15
Date Received: 09/27/24 13:45
Sample Depth: 0-2.5'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20.1		4.99		mg/Kg			10/01/24 18:29	1

Client Sample ID: S-35 (0-2.5')

Lab Sample ID: 880-49103-5
Matrix: Solid
Date Collected: 09/26/24 12:20
Date Received: 09/27/24 13:45
Sample Depth: 0-2.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/30/24 11:13	10/01/24 06:26	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/30/24 11:13	10/01/24 06:26	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/30/24 11:13	10/01/24 06:26	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/30/24 11:13	10/01/24 06:26	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/30/24 11:13	10/01/24 06:26	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/30/24 11:13	10/01/24 06:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*09/30/24 11:13*	*10/01/24 06:26*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*09/30/24 11:13*	*10/01/24 06:26*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/01/24 06:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/01/24 05:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		09/27/24 15:27	10/01/24 05:02	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/27/24 15:27	10/01/24 05:02	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/27/24 15:27	10/01/24 05:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 130*	*09/27/24 15:27*	*10/01/24 05:02*	*1*
o-Terphenyl	*87*		*70 - 130*	*09/27/24 15:27*	*10/01/24 05:02*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	31.5		5.04		mg/Kg			10/01/24 18:34	1

Surrogate Summary

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

Job ID: 880-49103-1
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)
880-49103-1	S-7 (2.5')	92	85
880-49103-2	S-32 (0-2.5')	87	82
880-49103-3	S-33 (0-2.5')	92	95
880-49103-4	S-34 (0-2.5')	100	87
880-49103-5	S-35 (0-2.5')	100	89
LCS 880-92119/1-A	Lab Control Sample	114	113
LCSD 880-92119/2-A	Lab Control Sample Dup	109	124
MB 880-92092/5-A	Method Blank	79	99
MB 880-92119/5-A	Method Blank	80	100

Surrogate Legend

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

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-49103-1	S-7 (2.5')	80	87
880-49103-2	S-32 (0-2.5')	81	84
880-49103-3	S-33 (0-2.5')	131 S1+	132 S1+
880-49103-4	S-34 (0-2.5')	88	99
880-49103-5	S-35 (0-2.5')	84	87
LCS 880-91963/2-A	Lab Control Sample	117	113
LCSD 880-91963/3-A	Lab Control Sample Dup	133 S1+	130
MB 880-91963/1-A	Method Blank	65 S1-	71

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

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

Job ID: 880-49103-1
SDG: Lea Co., NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-92092/5-A
Matrix: Solid
Analysis Batch: 92061

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 92092

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/30/24 10:04	09/30/24 11:43	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/30/24 10:04	09/30/24 11:43	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/30/24 10:04	09/30/24 11:43	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/30/24 10:04	09/30/24 11:43	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/30/24 10:04	09/30/24 11:43	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/30/24 10:04	09/30/24 11:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*79*		*70 - 130*	*09/30/24 10:04*	*09/30/24 11:43*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*09/30/24 10:04*	*09/30/24 11:43*	*1*

Lab Sample ID: MB 880-92119/5-A
Matrix: Solid
Analysis Batch: 92061

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 92119

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/30/24 11:13	09/30/24 22:30	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/30/24 11:13	09/30/24 22:30	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/30/24 11:13	09/30/24 22:30	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/30/24 11:13	09/30/24 22:30	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/30/24 11:13	09/30/24 22:30	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/30/24 11:13	09/30/24 22:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*80*		*70 - 130*	*09/30/24 11:13*	*09/30/24 22:30*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*09/30/24 11:13*	*09/30/24 22:30*	*1*

Lab Sample ID: LCS 880-92119/1-A
Matrix: Solid
Analysis Batch: 92061

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 92119

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09633		mg/Kg		96	70 - 130		
Toluene			0.100	0.08756		mg/Kg		88	70 - 130		
Ethylbenzene			0.100	0.09475		mg/Kg		95	70 - 130		
m-Xylene & p-Xylene			0.200	0.2185		mg/Kg		109	70 - 130		
o-Xylene			0.100	0.1073		mg/Kg		107	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*

Lab Sample ID: LCSD 880-92119/2-A
Matrix: Solid
Analysis Batch: 92061

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 92119

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1040		mg/Kg		104	70 - 130	8	35

QC Sample Results

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

Job ID: 880-49103-1
SDG: Lea Co., NM

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

Lab Sample ID: LCSD 880-92119/2-A
Matrix: Solid
Analysis Batch: 92061

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 92119

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.09377		mg/Kg		94	70 - 130	7	35
Ethylbenzene			0.100	0.1071		mg/Kg		107	70 - 130	12	35
m-Xylene & p-Xylene			0.200	0.2016		mg/Kg		101	70 - 130	8	35
o-Xylene			0.100	0.1005		mg/Kg		100	70 - 130	7	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
1,4-Difluorobenzene (Surr)	*124*		*70 - 130*

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

Lab Sample ID: MB 880-91963/1-A
Matrix: Solid
Analysis Batch: 92182

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 91963

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/27/24 15:27	10/01/24 00:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/27/24 15:27	10/01/24 00:05	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/27/24 15:27	10/01/24 00:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*65*	*S1-*	*70 - 130*	*09/27/24 15:27*	*10/01/24 00:05*	*1*
o-Terphenyl	*71*		*70 - 130*	*09/27/24 15:27*	*10/01/24 00:05*	*1*

Lab Sample ID: LCS 880-91963/2-A
Matrix: Solid
Analysis Batch: 92182

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 91963

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1060		mg/Kg		106	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1075		mg/Kg		107	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*117*		*70 - 130*
o-Terphenyl	*113*		*70 - 130*

Lab Sample ID: LCSD 880-91963/3-A
Matrix: Solid
Analysis Batch: 92182

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 91963

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1169		mg/Kg		117	70 - 130	10	20
Diesel Range Organics (Over C10-C28)			1000	1215		mg/Kg		122	70 - 130	12	20

Eurofins Midland

QC Sample Results

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

Job ID: 880-49103-1
SDG: Lea Co., NM

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

Lab Sample ID: LCSD 880-91963/3-A
Matrix: Solid
Analysis Batch: 92182

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 91963

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	133	S1+	70 - 130
o-Terphenyl	130		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-92121/1-A
Matrix: Solid
Analysis Batch: 92165

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			10/01/24 16:41	1

Lab Sample ID: LCS 880-92121/2-A
Matrix: Solid
Analysis Batch: 92165

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	250.3		mg/Kg		100	90 - 110		

Lab Sample ID: LCSD 880-92121/3-A
Matrix: Solid
Analysis Batch: 92165

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	251.3		mg/Kg		101	90 - 110	0	20

Lab Sample ID: 880-49103-3 MS
Matrix: Solid
Analysis Batch: 92165

Client Sample ID: S-33 (0-2.5')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	20.7		248	284.5		mg/Kg		106	90 - 110		

Lab Sample ID: 880-49103-3 MSD
Matrix: Solid
Analysis Batch: 92165

Client Sample ID: S-33 (0-2.5')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	20.7		248	285.7		mg/Kg		107	90 - 110	0	20

QC Association Summary

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

Job ID: 880-49103-1
SDG: Lea Co., NM

GC VOA

Analysis Batch: 92061

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49103-1	S-7 (2.5')	Total/NA	Solid	8021B	92119
880-49103-2	S-32 (0-2.5')	Total/NA	Solid	8021B	92119
880-49103-3	S-33 (0-2.5')	Total/NA	Solid	8021B	92119
880-49103-4	S-34 (0-2.5')	Total/NA	Solid	8021B	92119
880-49103-5	S-35 (0-2.5')	Total/NA	Solid	8021B	92119
MB 880-92092/5-A	Method Blank	Total/NA	Solid	8021B	92092
MB 880-92119/5-A	Method Blank	Total/NA	Solid	8021B	92119
LCS 880-92119/1-A	Lab Control Sample	Total/NA	Solid	8021B	92119
LCSD 880-92119/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	92119

Prep Batch: 92092

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-92092/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 92119

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49103-1	S-7 (2.5')	Total/NA	Solid	5035	
880-49103-2	S-32 (0-2.5')	Total/NA	Solid	5035	
880-49103-3	S-33 (0-2.5')	Total/NA	Solid	5035	
880-49103-4	S-34 (0-2.5')	Total/NA	Solid	5035	
880-49103-5	S-35 (0-2.5')	Total/NA	Solid	5035	
MB 880-92119/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-92119/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-92119/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 92264

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49103-1	S-7 (2.5')	Total/NA	Solid	Total BTEX	
880-49103-2	S-32 (0-2.5')	Total/NA	Solid	Total BTEX	
880-49103-3	S-33 (0-2.5')	Total/NA	Solid	Total BTEX	
880-49103-4	S-34 (0-2.5')	Total/NA	Solid	Total BTEX	
880-49103-5	S-35 (0-2.5')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 91963

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49103-1	S-7 (2.5')	Total/NA	Solid	8015NM Prep	
880-49103-2	S-32 (0-2.5')	Total/NA	Solid	8015NM Prep	
880-49103-3	S-33 (0-2.5')	Total/NA	Solid	8015NM Prep	
880-49103-4	S-34 (0-2.5')	Total/NA	Solid	8015NM Prep	
880-49103-5	S-35 (0-2.5')	Total/NA	Solid	8015NM Prep	
MB 880-91963/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-91963/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-91963/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 92182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49103-1	S-7 (2.5')	Total/NA	Solid	8015B NM	91963
880-49103-2	S-32 (0-2.5')	Total/NA	Solid	8015B NM	91963
880-49103-3	S-33 (0-2.5')	Total/NA	Solid	8015B NM	91963

QC Association Summary

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

Job ID: 880-49103-1
SDG: Lea Co., NM

GC Semi VOA (Continued)

Analysis Batch: 92182 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49103-4	S-34 (0-2.5')	Total/NA	Solid	8015B NM	91963
880-49103-5	S-35 (0-2.5')	Total/NA	Solid	8015B NM	91963
MB 880-91963/1-A	Method Blank	Total/NA	Solid	8015B NM	91963
LCS 880-91963/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	91963
LCSD 880-91963/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	91963

Analysis Batch: 92272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49103-1	S-7 (2.5')	Total/NA	Solid	8015 NM	
880-49103-2	S-32 (0-2.5')	Total/NA	Solid	8015 NM	
880-49103-3	S-33 (0-2.5')	Total/NA	Solid	8015 NM	
880-49103-4	S-34 (0-2.5')	Total/NA	Solid	8015 NM	
880-49103-5	S-35 (0-2.5')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 92121

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49103-1	S-7 (2.5')	Soluble	Solid	DI Leach	
880-49103-2	S-32 (0-2.5')	Soluble	Solid	DI Leach	
880-49103-3	S-33 (0-2.5')	Soluble	Solid	DI Leach	
880-49103-4	S-34 (0-2.5')	Soluble	Solid	DI Leach	
880-49103-5	S-35 (0-2.5')	Soluble	Solid	DI Leach	
MB 880-92121/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-92121/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-92121/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-49103-3 MS	S-33 (0-2.5')	Soluble	Solid	DI Leach	
880-49103-3 MSD	S-33 (0-2.5')	Soluble	Solid	DI Leach	

Analysis Batch: 92165

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49103-1	S-7 (2.5')	Soluble	Solid	300.0	92121
880-49103-2	S-32 (0-2.5')	Soluble	Solid	300.0	92121
880-49103-3	S-33 (0-2.5')	Soluble	Solid	300.0	92121
880-49103-4	S-34 (0-2.5')	Soluble	Solid	300.0	92121
880-49103-5	S-35 (0-2.5')	Soluble	Solid	300.0	92121
MB 880-92121/1-A	Method Blank	Soluble	Solid	300.0	92121
LCS 880-92121/2-A	Lab Control Sample	Soluble	Solid	300.0	92121
LCSD 880-92121/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	92121
880-49103-3 MS	S-33 (0-2.5')	Soluble	Solid	300.0	92121
880-49103-3 MSD	S-33 (0-2.5')	Soluble	Solid	300.0	92121

Lab Chronicle

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

Job ID: 880-49103-1
SDG: Lea Co., NM

Client Sample ID: S-7 (2.5')

Lab Sample ID: 880-49103-1
Matrix: Solid
Date Collected: 09/26/24 12:00
Date Received: 09/27/24 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	92119	09/30/24 11:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92061	10/01/24 05:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			92264	10/01/24 05:04	SM	EET MID
Total/NA	Analysis	8015 NM		1			92272	10/01/24 04:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10.00 mL	91963	09/27/24 15:27	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92182	10/01/24 04:02	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	92121	09/30/24 11:40	SA	EET MID
Soluble	Analysis	300.0		1			92165	10/01/24 18:02	CH	EET MID

Client Sample ID: S-32 (0-2.5')

Lab Sample ID: 880-49103-2
Matrix: Solid
Date Collected: 09/26/24 12:05
Date Received: 09/27/24 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	92119	09/30/24 11:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92061	10/01/24 05:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			92264	10/01/24 05:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			92272	10/01/24 04:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10.00 mL	91963	09/27/24 15:27	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92182	10/01/24 04:18	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	92121	09/30/24 11:40	SA	EET MID
Soluble	Analysis	300.0		1			92165	10/01/24 18:07	CH	EET MID

Client Sample ID: S-33 (0-2.5')

Lab Sample ID: 880-49103-3
Matrix: Solid
Date Collected: 09/26/24 12:10
Date Received: 09/27/24 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	92119	09/30/24 11:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92061	10/01/24 05:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			92264	10/01/24 05:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			92272	10/01/24 04:32	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10.00 mL	91963	09/27/24 15:27	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92182	10/01/24 04:32	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	92121	09/30/24 11:40	SA	EET MID
Soluble	Analysis	300.0		1			92165	10/01/24 18:12	CH	EET MID

Client Sample ID: S-34 (0-2.5')

Lab Sample ID: 880-49103-4
Matrix: Solid
Date Collected: 09/26/24 12:15
Date Received: 09/27/24 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	92119	09/30/24 11:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92061	10/01/24 06:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			92264	10/01/24 06:05	SM	EET MID

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Lab Chronicle

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

Job ID: 880-49103-1
SDG: Lea Co., NM

Client Sample ID: S-34 (0-2.5')

Lab Sample ID: 880-49103-4
Matrix: Solid
Date Collected: 09/26/24 12:15
Date Received: 09/27/24 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			92272	10/01/24 04:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10.00 mL	91963	09/27/24 15:27	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92182	10/01/24 04:48	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	92121	09/30/24 11:40	SA	EET MID
Soluble	Analysis	300.0		1			92165	10/01/24 18:29	CH	EET MID

Client Sample ID: S-35 (0-2.5')

Lab Sample ID: 880-49103-5
Matrix: Solid
Date Collected: 09/26/24 12:20
Date Received: 09/27/24 13:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	92119	09/30/24 11:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92061	10/01/24 06:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			92264	10/01/24 06:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			92272	10/01/24 05:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10.00 mL	91963	09/27/24 15:27	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92182	10/01/24 05:02	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	92121	09/30/24 11:40	SA	EET MID
Soluble	Analysis	300.0		1			92165	10/01/24 18:34	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 880-49103-1
SDG: Lea Co., NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

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

Job ID: 880-49103-1
SDG: Lea Co., NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

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

Job ID: 880-49103-1
SDG: Lea Co., NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-49103-1	S-7 (2.5')	Solid	09/26/24 12:00	09/27/24 13:45	2.5'
880-49103-2	S-32 (0-2.5')	Solid	09/26/24 12:05	09/27/24 13:45	0-2.5'
880-49103-3	S-33 (0-2.5')	Solid	09/26/24 12:10	09/27/24 13:45	0-2.5'
880-49103-4	S-34 (0-2.5')	Solid	09/26/24 12:15	09/27/24 13:45	0-2.5'
880-49103-5	S-35 (0-2.5')	Solid	09/26/24 12:20	09/27/24 13:45	0-2.5'

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Chain of Custody

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

880-49103 Chain of Custody

www.xenco.com Page 1 of 1

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

Work Order Comments

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

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

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Samples Received Intact:	(Yes) No	Thermometer ID:	IR8
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	3.2
Total Containers:		Corrected Temperature:	3.1

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: TPH 8015 M	BTEX	Chlorides
S-7 (2.5')	S	9/26/24	1200	2.5'	C	1		X	X	X
S-32 (0-2.5')			1205	0-2.5'						
S-33 (0-2.5')			1210	0-2.5'						
S-34 (0-2.5')			1215	0-2.5'						
S-35 (0-2.5')	↓	↓	1220	0-2.5'	↓	↓		↓	↓	↓

Preservative Codes

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

Sample Comments

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Cindy Crain		9/27/24 1345	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Crain Environmental

Job Number: 880-49103-1
SDG Number: Lea Co., NM

Login Number: 49103
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 11/25/2024 12:50:11 PM Revision 1

JOB DESCRIPTION

Chem State #1
Lea Co. NM

JOB NUMBER

880-50851-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

my EOL

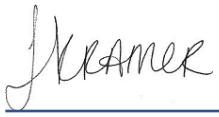
Eurofins Midland

Job Notes

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

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

Authorization



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11/25/2024 12:50:11 PM
Revision 1

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

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

Laboratory Job ID: 880-50851-1
SDG: Lea Co. NM

Table of Contents

Definitions/Glossary

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

Job ID: 880-50851-1
SDG: Lea Co. NM

Qualifiers

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Crain Environmental
Project: Chem State #1

Job ID: 880-50851-1

Job ID: 880-50851-1 Eurofins Midland

Job Narrative
880-50851-1

REVISION

The report being provided is a revision of the original report sent on 11/19/2024. The report (revision 1) is being revised due to Per client email samples 013-016 are for Chem State #4.

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

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

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

Receipt
The samples were received on 11/8/2024 1:35 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.2°C.

Diesel Range Organics
Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: (LCS 880-95276/2-A). Percent recoveries are based on the amount spiked.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCSD 880-95276/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-95595 exhibited % difference of > 20% for the following analyte(s)o-Terphenyl. These results are within the acceptance limits but exceed the performance criteria.

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

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

Client Sample Results

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

Job ID: 880-50851-1
SDG: Lea Co. NM

Client Sample ID: S-1 (7')
Date Collected: 11/04/24 10:00
Date Received: 11/08/24 13:35
Sample Depth: 7'

Lab Sample ID: 880-50851-1
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**1380**		49.7		mg/Kg			11/13/24 22:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		11/12/24 13:03	11/13/24 22:14	1
Diesel Range Organics (Over C10-C28)	**1380**		49.7		mg/Kg		11/12/24 13:03	11/13/24 22:14	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		11/12/24 13:03	11/13/24 22:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*87*		*70 - 130*	*11/12/24 13:03*	*11/13/24 22:14*	*1*
o-Terphenyl	*75*		*70 - 130*	*11/12/24 13:03*	*11/13/24 22:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**255**		9.92		mg/Kg			11/09/24 00:54	1

Client Sample ID: S-11 (0-4')
Date Collected: 11/04/24 10:05
Date Received: 11/08/24 13:35
Sample Depth: 0-4'

Lab Sample ID: 880-50851-2
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**517**		49.8		mg/Kg			11/12/24 20:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		11/08/24 14:17	11/12/24 20:46	1
Diesel Range Organics (Over C10-C28)	**517**		49.8		mg/Kg		11/08/24 14:17	11/12/24 20:46	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/08/24 14:17	11/12/24 20:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*11/08/24 14:17*	*11/12/24 20:46*	*1*
o-Terphenyl	*84*		*70 - 130*	*11/08/24 14:17*	*11/12/24 20:46*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1620**		49.8		mg/Kg			11/09/24 01:01	5

Client Sample ID: S-11 (4-7')
Date Collected: 11/04/24 10:10
Date Received: 11/08/24 13:35
Sample Depth: 4-7'

Lab Sample ID: 880-50851-3
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**1280**		49.8		mg/Kg			11/12/24 21:17	1

Client Sample Results

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

Job ID: 880-50851-1
SDG: Lea Co. NM

Client Sample ID: S-11 (4-7')

Lab Sample ID: 880-50851-3
Matrix: Solid
Date Collected: 11/04/24 10:10
Date Received: 11/08/24 13:35
Sample Depth: 4-7'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		11/08/24 14:17	11/12/24 21:17	1
Diesel Range Organics (Over C10-C28)	**1280**		49.8		mg/Kg		11/08/24 14:17	11/12/24 21:17	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/08/24 14:17	11/12/24 21:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 130*	*11/08/24 14:17*	*11/12/24 21:17*	*1*
o-Terphenyl	*90*		*70 - 130*	*11/08/24 14:17*	*11/12/24 21:17*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3810**		99.4		mg/Kg			11/09/24 01:16	10

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

Lab Sample ID: 880-50851-4
Matrix: Solid
Date Collected: 11/04/24 10:15
Date Received: 11/08/24 13:35
Sample Depth: 0-4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			11/12/24 21:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		11/08/24 14:17	11/12/24 21:32	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		11/08/24 14:17	11/12/24 21:32	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		11/08/24 14:17	11/12/24 21:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*11/08/24 14:17*	*11/12/24 21:32*	*1*
o-Terphenyl	*89*		*70 - 130*	*11/08/24 14:17*	*11/12/24 21:32*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**765**		9.92		mg/Kg			11/09/24 01:34	1

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

Lab Sample ID: 880-50851-5
Matrix: Solid
Date Collected: 11/04/24 10:15
Date Received: 11/08/24 13:35
Sample Depth: 4-7'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**788**		50.0		mg/Kg			11/12/24 21:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/08/24 14:17	11/12/24 21:48	1

Client Sample Results

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

Job ID: 880-50851-1
SDG: Lea Co. NM

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

Lab Sample ID: 880-50851-5
Matrix: Solid
Date Collected: 11/04/24 10:15
Date Received: 11/08/24 13:35
Sample Depth: 4-7'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	**788**		50.0		mg/Kg		11/08/24 14:17	11/12/24 21:48	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/08/24 14:17	11/12/24 21:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*79*		*70 - 130*	*11/08/24 14:17*	*11/12/24 21:48*	*1*
o-Terphenyl	*93*		*70 - 130*	*11/08/24 14:17*	*11/12/24 21:48*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**602**		9.94		mg/Kg			11/09/24 01:41	1

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

Lab Sample ID: 880-50851-6
Matrix: Solid
Date Collected: 11/04/24 10:20
Date Received: 11/08/24 13:35
Sample Depth: 0-4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**402**		49.9		mg/Kg			11/12/24 22:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/08/24 14:17	11/12/24 22:03	1
Diesel Range Organics (Over C10-C28)	**402**		49.9		mg/Kg		11/08/24 14:17	11/12/24 22:03	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/08/24 14:17	11/12/24 22:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*86*		*70 - 130*	*11/08/24 14:17*	*11/12/24 22:03*	*1*
o-Terphenyl	*86*		*70 - 130*	*11/08/24 14:17*	*11/12/24 22:03*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**911**		49.8		mg/Kg			11/09/24 01:47	5

Client Sample ID: S-13 (4-7')

Lab Sample ID: 880-50851-7
Matrix: Solid
Date Collected: 11/04/24 10:25
Date Received: 11/08/24 13:35
Sample Depth: 4-7'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			11/12/24 22:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		11/08/24 14:17	11/12/24 22:18	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		11/08/24 14:17	11/12/24 22:18	1

Client Sample Results

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

Job ID: 880-50851-1
SDG: Lea Co. NM

Client Sample ID: S-13 (4-7')

Lab Sample ID: 880-50851-7
Matrix: Solid
Date Collected: 11/04/24 10:25
Date Received: 11/08/24 13:35
Sample Depth: 4-7'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/08/24 14:17	11/12/24 22:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*11/08/24 14:17*	*11/12/24 22:18*	*1*
o-Terphenyl	*99*		*70 - 130*	*11/08/24 14:17*	*11/12/24 22:18*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**791**		9.90		mg/Kg			11/09/24 01:53	1

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

Lab Sample ID: 880-50851-8
Matrix: Solid
Date Collected: 11/04/24 10:30
Date Received: 11/08/24 13:35
Sample Depth: 0-4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			11/12/24 22:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		11/08/24 14:17	11/12/24 22:32	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		11/08/24 14:17	11/12/24 22:32	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/08/24 14:17	11/12/24 22:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*11/08/24 14:17*	*11/12/24 22:32*	*1*
o-Terphenyl	*83*		*70 - 130*	*11/08/24 14:17*	*11/12/24 22:32*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**650**		10.0		mg/Kg			11/09/24 02:11	1

Client Sample ID: S-2 (0-1.8')

Lab Sample ID: 880-50851-9
Matrix: Solid
Date Collected: 11/04/24 10:35
Date Received: 11/08/24 13:35
Sample Depth: 0-1.8'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/12/24 22:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/08/24 14:17	11/12/24 22:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/08/24 14:17	11/12/24 22:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/08/24 14:17	11/12/24 22:47	1

Client Sample Results

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

Job ID: 880-50851-1
SDG: Lea Co. NM

Client Sample ID: S-2 (0-1.8')

Lab Sample ID: 880-50851-9
Matrix: Solid
Date Collected: 11/04/24 10:35
Date Received: 11/08/24 13:35
Sample Depth: 0-1.8'

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130	11/08/24 14:17	11/12/24 22:47	1
o-Terphenyl	83		70 - 130	11/08/24 14:17	11/12/24 22:47	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	364		10.1		mg/Kg			11/09/24 02:17	1

Client Sample ID: S-18 (1.8')

Lab Sample ID: 880-50851-10
Matrix: Solid
Date Collected: 11/04/24 10:50
Date Received: 11/08/24 13:35
Sample Depth: 1.8'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/12/24 23:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/08/24 14:17	11/12/24 23:01	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/08/24 14:17	11/12/24 23:01	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/08/24 14:17	11/12/24 23:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130	11/08/24 14:17	11/12/24 23:01	1
o-Terphenyl	81		70 - 130	11/08/24 14:17	11/12/24 23:01	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	141		9.96		mg/Kg			11/09/24 02:24	1

Client Sample ID: S-32 (2.5')

Lab Sample ID: 880-50851-11
Matrix: Solid
Date Collected: 11/04/24 11:05
Date Received: 11/08/24 13:35
Sample Depth: 0-2.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			11/12/24 23:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		11/08/24 14:17	11/12/24 23:17	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		11/08/24 14:17	11/12/24 23:17	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/08/24 14:17	11/12/24 23:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130	11/08/24 14:17	11/12/24 23:17	1
o-Terphenyl	88		70 - 130	11/08/24 14:17	11/12/24 23:17	1

Client Sample Results

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

Job ID: 880-50851-1
SDG: Lea Co. NM

Client Sample ID: S-32 (2.5')

Lab Sample ID: 880-50851-11
Matrix: Solid
Date Collected: 11/04/24 11:05
Date Received: 11/08/24 13:35
Sample Depth: 0-2.5'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**40.5**		9.94		mg/Kg			11/09/24 02:30	1

Client Sample ID: S-34 (2.5')

Lab Sample ID: 880-50851-12
Matrix: Solid
Date Collected: 11/04/24 11:10
Date Received: 11/08/24 13:35
Sample Depth: 0-2.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			11/12/24 23:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		11/08/24 14:17	11/12/24 23:31	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		11/08/24 14:17	11/12/24 23:31	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/08/24 14:17	11/12/24 23:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*11/08/24 14:17*	*11/12/24 23:31*	*1*
o-Terphenyl	*83*		*70 - 130*	*11/08/24 14:17*	*11/12/24 23:31*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**17.4**		9.98		mg/Kg			11/09/24 02:36	1

Surrogate Summary

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

Job ID: 880-50851-1
SDG: Lea Co. NM

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-50851-1	S-1 (7')	87	75
880-50851-2	S-11 (0-4')	88	84
880-50851-3	S-11 (4-7')	91	90
880-50851-4	S-12 (0-4')	93	89
880-50851-5	S-12 (4-7')	79	93
880-50851-6	S-13 (0-4')	86	86
880-50851-7	S-13 (4-7')	104	99
880-50851-8	S-14 (0-4')	89	83
880-50851-9	S-2 (0-1.8')	89	83
880-50851-10	S-18 (1.8')	87	81
880-50851-11	S-32 (2.5')	95	88
880-50851-12	S-34 (2.5')	88	83
LCS 880-95276/2-A	Lab Control Sample	155 S1+	134 S1+
LCS 880-95542/2-A	Lab Control Sample	100	87
LCSD 880-95276/3-A	Lab Control Sample Dup	146 S1+	127
LCSD 880-95542/3-A	Lab Control Sample Dup	99	86
MB 880-95276/1-A	Method Blank	93	89
MB 880-95542/1-A	Method Blank	106	85

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

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

Job ID: 880-50851-1
SDG: Lea Co. NM

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

Lab Sample ID: MB 880-95276/1-A
Matrix: Solid
Analysis Batch: 95559

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 95276

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/08/24 14:17	11/12/24 10:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/08/24 14:17	11/12/24 10:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/08/24 14:17	11/12/24 10:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*11/08/24 14:17*	*11/12/24 10:10*	*1*
o-Terphenyl	*89*		*70 - 130*	*11/08/24 14:17*	*11/12/24 10:10*	*1*

Lab Sample ID: LCS 880-95276/2-A
Matrix: Solid
Analysis Batch: 95559

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 95276

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1147		mg/Kg		115	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1067		mg/Kg		107	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*155*	*S1+*	*70 - 130*
o-Terphenyl	*134*	*S1+*	*70 - 130*

Lab Sample ID: LCSD 880-95276/3-A
Matrix: Solid
Analysis Batch: 95559

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 95276

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1108		mg/Kg		111	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	1000	999.2		mg/Kg		100	70 - 130	7	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*146*	*S1+*	*70 - 130*
o-Terphenyl	*127*		*70 - 130*

Lab Sample ID: MB 880-95542/1-A
Matrix: Solid
Analysis Batch: 95595

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 95542

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/12/24 13:02	11/13/24 19:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/12/24 13:02	11/13/24 19:33	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/12/24 13:02	11/13/24 19:33	1

QC Sample Results

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

Job ID: 880-50851-1
SDG: Lea Co. NM

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

Lab Sample ID: MB 880-95542/1-A
Matrix: Solid
Analysis Batch: 95595

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 95542

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130	11/12/24 13:02	11/13/24 19:33	1
o-Terphenyl	85		70 - 130	11/12/24 13:02	11/13/24 19:33	1

Lab Sample ID: LCS 880-95542/2-A
Matrix: Solid
Analysis Batch: 95595

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 95542

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	969.0		mg/Kg		97	70 - 130
Diesel Range Organics (Over C10-C28)	1000	778.1		mg/Kg		78	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	100		70 - 130
o-Terphenyl	87		70 - 130

Lab Sample ID: LCSD 880-95542/3-A
Matrix: Solid
Analysis Batch: 95595

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 95542

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	969.6		mg/Kg		97	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	1000	745.5		mg/Kg		75	70 - 130	4	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	99		70 - 130
o-Terphenyl	86		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-95277/1-A
Matrix: Solid
Analysis Batch: 95293

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			11/08/24 21:43	1

Lab Sample ID: LCS 880-95277/2-A
Matrix: Solid
Analysis Batch: 95293

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	267.3		mg/Kg		107	90 - 110

QC Sample Results

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

Job ID: 880-50851-1
SDG: Lea Co. NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-95277/3-A
Matrix: Solid
Analysis Batch: 95293

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	271.1		mg/Kg		108	90 - 110	1	20

Lab Sample ID: MB 880-95290/1-A
Matrix: Solid
Analysis Batch: 95294

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			11/09/24 00:58	1

Lab Sample ID: LCS 880-95290/2-A
Matrix: Solid
Analysis Batch: 95294

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	238.9		mg/Kg		96	90 - 110		

Lab Sample ID: LCSD 880-95290/3-A
Matrix: Solid
Analysis Batch: 95294

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	239.8		mg/Kg		96	90 - 110	0	20

Lab Sample ID: 880-50851-3 MS
Matrix: Solid
Analysis Batch: 95294

Client Sample ID: S-11 (4-7')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	3810		2490	6347		mg/Kg		102	90 - 110		

Lab Sample ID: 880-50851-3 MSD
Matrix: Solid
Analysis Batch: 95294

Client Sample ID: S-11 (4-7')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	3810		2490	6367		mg/Kg		103	90 - 110	0	20

QC Association Summary

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

Job ID: 880-50851-1
SDG: Lea Co. NM

GC Semi VOA

Prep Batch: 95276

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-50851-2	S-11 (0-4')	Total/NA	Solid	8015NM Prep	
880-50851-3	S-11 (4-7')	Total/NA	Solid	8015NM Prep	
880-50851-4	S-12 (0-4')	Total/NA	Solid	8015NM Prep	
880-50851-5	S-12 (4-7')	Total/NA	Solid	8015NM Prep	
880-50851-6	S-13 (0-4')	Total/NA	Solid	8015NM Prep	
880-50851-7	S-13 (4-7')	Total/NA	Solid	8015NM Prep	
880-50851-8	S-14 (0-4')	Total/NA	Solid	8015NM Prep	
880-50851-9	S-2 (0-1.8')	Total/NA	Solid	8015NM Prep	
880-50851-10	S-18 (1.8')	Total/NA	Solid	8015NM Prep	
880-50851-11	S-32 (2.5')	Total/NA	Solid	8015NM Prep	
880-50851-12	S-34 (2.5')	Total/NA	Solid	8015NM Prep	
MB 880-95276/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-95276/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-95276/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 95542

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-50851-1	S-1 (7')	Total/NA	Solid	8015NM Prep	
MB 880-95542/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-95542/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-95542/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 95559

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-50851-2	S-11 (0-4')	Total/NA	Solid	8015B NM	95276
880-50851-3	S-11 (4-7')	Total/NA	Solid	8015B NM	95276
880-50851-4	S-12 (0-4')	Total/NA	Solid	8015B NM	95276
880-50851-5	S-12 (4-7')	Total/NA	Solid	8015B NM	95276
880-50851-6	S-13 (0-4')	Total/NA	Solid	8015B NM	95276
880-50851-7	S-13 (4-7')	Total/NA	Solid	8015B NM	95276
880-50851-8	S-14 (0-4')	Total/NA	Solid	8015B NM	95276
880-50851-9	S-2 (0-1.8')	Total/NA	Solid	8015B NM	95276
880-50851-10	S-18 (1.8')	Total/NA	Solid	8015B NM	95276
880-50851-11	S-32 (2.5')	Total/NA	Solid	8015B NM	95276
880-50851-12	S-34 (2.5')	Total/NA	Solid	8015B NM	95276
MB 880-95276/1-A	Method Blank	Total/NA	Solid	8015B NM	95276
LCS 880-95276/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	95276
LCSD 880-95276/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	95276

Analysis Batch: 95595

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-50851-1	S-1 (7')	Total/NA	Solid	8015B NM	95542
MB 880-95542/1-A	Method Blank	Total/NA	Solid	8015B NM	95542
LCS 880-95542/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	95542
LCSD 880-95542/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	95542

Analysis Batch: 95605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-50851-1	S-1 (7')	Total/NA	Solid	8015 NM	
880-50851-2	S-11 (0-4')	Total/NA	Solid	8015 NM	
880-50851-3	S-11 (4-7')	Total/NA	Solid	8015 NM	

QC Association Summary

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

Job ID: 880-50851-1
SDG: Lea Co. NM

GC Semi VOA (Continued)

Analysis Batch: 95605 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-50851-4	S-12 (0-4')	Total/NA	Solid	8015 NM	
880-50851-5	S-12 (4-7')	Total/NA	Solid	8015 NM	
880-50851-6	S-13 (0-4')	Total/NA	Solid	8015 NM	
880-50851-7	S-13 (4-7')	Total/NA	Solid	8015 NM	
880-50851-8	S-14 (0-4')	Total/NA	Solid	8015 NM	
880-50851-9	S-2 (0-1.8')	Total/NA	Solid	8015 NM	
880-50851-10	S-18 (1.8')	Total/NA	Solid	8015 NM	
880-50851-11	S-32 (2.5')	Total/NA	Solid	8015 NM	
880-50851-12	S-34 (2.5')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 95277

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-50851-1	S-1 (7')	Soluble	Solid	DI Leach	
880-50851-2	S-11 (0-4')	Soluble	Solid	DI Leach	
MB 880-95277/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-95277/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-95277/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Leach Batch: 95290

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-50851-3	S-11 (4-7')	Soluble	Solid	DI Leach	
880-50851-4	S-12 (0-4')	Soluble	Solid	DI Leach	
880-50851-5	S-12 (4-7')	Soluble	Solid	DI Leach	
880-50851-6	S-13 (0-4')	Soluble	Solid	DI Leach	
880-50851-7	S-13 (4-7')	Soluble	Solid	DI Leach	
880-50851-8	S-14 (0-4')	Soluble	Solid	DI Leach	
880-50851-9	S-2 (0-1.8')	Soluble	Solid	DI Leach	
880-50851-10	S-18 (1.8')	Soluble	Solid	DI Leach	
880-50851-11	S-32 (2.5')	Soluble	Solid	DI Leach	
880-50851-12	S-34 (2.5')	Soluble	Solid	DI Leach	
MB 880-95290/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-95290/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-95290/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-50851-3 MS	S-11 (4-7')	Soluble	Solid	DI Leach	
880-50851-3 MSD	S-11 (4-7')	Soluble	Solid	DI Leach	

Analysis Batch: 95293

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-50851-1	S-1 (7')	Soluble	Solid	300.0	95277
880-50851-2	S-11 (0-4')	Soluble	Solid	300.0	95277
MB 880-95277/1-A	Method Blank	Soluble	Solid	300.0	95277
LCS 880-95277/2-A	Lab Control Sample	Soluble	Solid	300.0	95277
LCSD 880-95277/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	95277

Analysis Batch: 95294

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-50851-3	S-11 (4-7')	Soluble	Solid	300.0	95290
880-50851-4	S-12 (0-4')	Soluble	Solid	300.0	95290
880-50851-5	S-12 (4-7')	Soluble	Solid	300.0	95290

QC Association Summary

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

Job ID: 880-50851-1
SDG: Lea Co. NM

HPLC/IC (Continued)

Analysis Batch: 95294 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-50851-6	S-13 (0-4')	Soluble	Solid	300.0	95290
880-50851-7	S-13 (4-7')	Soluble	Solid	300.0	95290
880-50851-8	S-14 (0-4')	Soluble	Solid	300.0	95290
880-50851-9	S-2 (0-1.8')	Soluble	Solid	300.0	95290
880-50851-10	S-18 (1.8')	Soluble	Solid	300.0	95290
880-50851-11	S-32 (2.5')	Soluble	Solid	300.0	95290
880-50851-12	S-34 (2.5')	Soluble	Solid	300.0	95290
MB 880-95290/1-A	Method Blank	Soluble	Solid	300.0	95290
LCS 880-95290/2-A	Lab Control Sample	Soluble	Solid	300.0	95290
LCSD 880-95290/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	95290
880-50851-3 MS	S-11 (4-7')	Soluble	Solid	300.0	95290
880-50851-3 MSD	S-11 (4-7')	Soluble	Solid	300.0	95290

Lab Chronicle

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

Job ID: 880-50851-1
SDG: Lea Co. NM

Client Sample ID: S-1 (7')
Date Collected: 11/04/24 10:00
Date Received: 11/08/24 13:35

Lab Sample ID: 880-50851-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			95605	11/13/24 22:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	95542	11/12/24 13:03	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	95595	11/13/24 22:14	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	95277	11/08/24 14:21	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	95293	11/09/24 00:54	CH	EET MID

Client Sample ID: S-11 (0-4')
Date Collected: 11/04/24 10:05
Date Received: 11/08/24 13:35

Lab Sample ID: 880-50851-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			95605	11/12/24 20:46	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	95276	11/08/24 14:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	95559	11/12/24 20:46	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	95277	11/08/24 14:21	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	95293	11/09/24 01:01	CH	EET MID

Client Sample ID: S-11 (4-7')
Date Collected: 11/04/24 10:10
Date Received: 11/08/24 13:35

Lab Sample ID: 880-50851-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			95605	11/12/24 21:17	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	95276	11/08/24 14:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	95559	11/12/24 21:17	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	95290	11/08/24 14:51	SA	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	95294	11/09/24 01:16	CH	EET MID

Client Sample ID: S-12 (0-4')
Date Collected: 11/04/24 10:15
Date Received: 11/08/24 13:35

Lab Sample ID: 880-50851-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			95605	11/12/24 21:32	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	95276	11/08/24 14:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	95559	11/12/24 21:32	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	95290	11/08/24 14:51	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	95294	11/09/24 01:34	CH	EET MID

Client Sample ID: S-12 (4-7')
Date Collected: 11/04/24 10:15
Date Received: 11/08/24 13:35

Lab Sample ID: 880-50851-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			95605	11/12/24 21:48	SM	EET MID

Lab Chronicle

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

Job ID: 880-50851-1
SDG: Lea Co. NM

Client Sample ID: S-12 (4-7')
Date Collected: 11/04/24 10:15
Date Received: 11/08/24 13:35

Lab Sample ID: 880-50851-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	95276	11/08/24 14:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	95559	11/12/24 21:48	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	95290	11/08/24 14:51	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	95294	11/09/24 01:41	CH	EET MID

Client Sample ID: S-13 (0-4')
Date Collected: 11/04/24 10:20
Date Received: 11/08/24 13:35

Lab Sample ID: 880-50851-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			95605	11/12/24 22:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	95276	11/08/24 14:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	95559	11/12/24 22:03	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	95290	11/08/24 14:51	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	95294	11/09/24 01:47	CH	EET MID

Client Sample ID: S-13 (4-7')
Date Collected: 11/04/24 10:25
Date Received: 11/08/24 13:35

Lab Sample ID: 880-50851-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			95605	11/12/24 22:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	95276	11/08/24 14:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	95559	11/12/24 22:18	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	95290	11/08/24 14:51	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	95294	11/09/24 01:53	CH	EET MID

Client Sample ID: S-14 (0-4')
Date Collected: 11/04/24 10:30
Date Received: 11/08/24 13:35

Lab Sample ID: 880-50851-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			95605	11/12/24 22:32	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	95276	11/08/24 14:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	95559	11/12/24 22:32	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	95290	11/08/24 14:51	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	95294	11/09/24 02:11	CH	EET MID

Client Sample ID: S-2 (0-1.8')
Date Collected: 11/04/24 10:35
Date Received: 11/08/24 13:35

Lab Sample ID: 880-50851-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			95605	11/12/24 22:47	SM	EET MID

Lab Chronicle

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

Job ID: 880-50851-1
SDG: Lea Co. NM

Client Sample ID: S-2 (0-1.8')
Date Collected: 11/04/24 10:35
Date Received: 11/08/24 13:35

Lab Sample ID: 880-50851-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	95276	11/08/24 14:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	95559	11/12/24 22:47	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	95290	11/08/24 14:51	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	95294	11/09/24 02:17	CH	EET MID

Client Sample ID: S-18 (1.8')
Date Collected: 11/04/24 10:50
Date Received: 11/08/24 13:35

Lab Sample ID: 880-50851-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			95605	11/12/24 23:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	95276	11/08/24 14:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	95559	11/12/24 23:01	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	95290	11/08/24 14:51	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	95294	11/09/24 02:24	CH	EET MID

Client Sample ID: S-32 (2.5')
Date Collected: 11/04/24 11:05
Date Received: 11/08/24 13:35

Lab Sample ID: 880-50851-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			95605	11/12/24 23:17	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	95276	11/08/24 14:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	95559	11/12/24 23:17	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	95290	11/08/24 14:51	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	95294	11/09/24 02:30	CH	EET MID

Client Sample ID: S-34 (2.5')
Date Collected: 11/04/24 11:10
Date Received: 11/08/24 13:35

Lab Sample ID: 880-50851-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			95605	11/12/24 23:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	95276	11/08/24 14:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	95559	11/12/24 23:31	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	95290	11/08/24 14:51	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	95294	11/09/24 02:36	CH	EET MID

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

Accreditation/Certification Summary

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

Job ID: 880-50851-1
SDG: Lea Co. NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH

Method Summary

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

Job ID: 880-50851-1
SDG: Lea Co. NM

Method	Method Description	Protocol	Laboratory
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Sample Summary

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

Job ID: 880-50851-1
SDG: Lea Co. NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-50851-1	S-1 (7')	Solid	11/04/24 10:00	11/08/24 13:35	7'
880-50851-2	S-11 (0-4')	Solid	11/04/24 10:05	11/08/24 13:35	0-4'
880-50851-3	S-11 (4-7')	Solid	11/04/24 10:10	11/08/24 13:35	4-7'
880-50851-4	S-12 (0-4')	Solid	11/04/24 10:15	11/08/24 13:35	0-4'
880-50851-5	S-12 (4-7')	Solid	11/04/24 10:15	11/08/24 13:35	4-7'
880-50851-6	S-13 (0-4')	Solid	11/04/24 10:20	11/08/24 13:35	0-4'
880-50851-7	S-13 (4-7')	Solid	11/04/24 10:25	11/08/24 13:35	4-7'
880-50851-8	S-14 (0-4')	Solid	11/04/24 10:30	11/08/24 13:35	0-4'
880-50851-9	S-2 (0-1.8')	Solid	11/04/24 10:35	11/08/24 13:35	0-1.8'
880-50851-10	S-18 (1.8')	Solid	11/04/24 10:50	11/08/24 13:35	1.8'
880-50851-11	S-32 (2.5')	Solid	11/04/24 11:05	11/08/24 13:35	0-2.5'
880-50851-12	S-34 (2.5')	Solid	11/04/24 11:10	11/08/24 13:35	0-2.5'

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Chain of Custody

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

880-50851 Chain of Custody

www.xenco.com Page 1 of 2

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

Work Order Comments

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

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

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	Yes (No)	
Samples Received Intact:	(Yes) No	Thermometer ID:	IR8	
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-.1	
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	3.3	
Total Containers:		Corrected Temperature:	3.2	

Preservative Codes

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

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: TPH 8015M	Parameters: Chlorides	Sample Comments
S-1 (7')	S	11/4/24	1000	7'	C	1		X	X	
S-11 (0-4')			1005	0-4'						
S-11 (4-7')			1010	4-7'						
S-12 (0-4')			1015	0-4'						
S-12 (4-7')			1020	4-7'						
S-13 (0-4')			1025	0-4'						
S-13 (4-7')			1030	4-7'						
S-14 (0-4')			1035	0-4'						
S-2 (0-1.8')			1045	0-1.8'						
S-18 (1.8')	↓	↓	1050	1.8'	↓	↓		↓	↓	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Cindy Crain		11/8/24 1335	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

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Chain of Custody

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Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: 851

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

Work Order Comments

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

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

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

Preservative Codes

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

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: TPH 8015M	Parameters: Chlorides	Sample Comments
S-32 (0-2.5')	S	11/4/24	1105	0-2.5'	C	1		X	X	
S-34 (0-2.5')	S	11/4/24	1110	0-2.5'	C	1		X	X	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Cindy Crain		11/8/24 1535	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Crain Environmental

Job Number: 880-50851-1
SDG Number: Lea Co. NM

Login Number: 50851
List Number: 1
Creator: Vasquez, Julisa

List Source: Eurofins Midland

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

Grain Environmental

Appendix B: Photographic Documentation

Appendix B
Chem State #1

Well sign


View to N from sample S-7 location (3/12/24).


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


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


View to NW of excavation (11/4/24).


View to SE of excavation (11/4/24).

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

QUESTIONS

Action 414446

QUESTIONS

Operator: CAMBRIAN MANAGEMENT LTD 310 W Wall Street Ste 300 Midland, TX 79701	OGRID: 198688
	Action Number: 414446
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2426159828**
Incident Name	**NAPP2426159828 CHEM STATE #1 @ 30-025-08012**
Incident Type	**Oil Release**
Incident Status	**Remediation Closure Report Received**
Incident Well	**[30-025-08012] CHEM STATE #001**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	Chem State #1
Date Release Discovered	03/28/2024
Surface Owner	State

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Corrosion | Flow Line - Production | Crude Oil | Released: 7 BBL | Recovered: 5 BBL | Lost: 2 BBL.
Produced Water Released (bbls) Details	*Not answered.*
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	*Not answered.*
Natural Gas Vented (Mcf) Details	*Not answered.*
Natural Gas Flared (Mcf) Details	*Not answered.*
Other Released Details	*Not answered.*
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	*Not answered.*

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QUESTIONS (continued)

Operator: CAMBRIAN MANAGEMENT LTD 310 W Wall Street Ste 300 Midland, TX 79701	OGRID: 198688
	Action Number: 414446
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	**No, according to supplied volumes this does not appear to be a "gas only" report.**
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	**No**
Reasons why this would be considered a submission for a notification of a major release	*Unavailable.*

With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.

Initial Response	
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.	
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	The Chem State #1 well has been P&A'd and the site is being remediated/reclaimed according to State Land Office (SLO) specifications. Upon submitting a Reclamation and Remediation Workplan to the SLO, they requested an investigation of a barren area south of the well. This NOR is being submitted a result of samples collected along the abandoned pipeline that reported TPH concentrations above the OCD Closure Criteria. This is a historical release.

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

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

I hereby agree and sign off to the above statement	Name: Socorro Hendry Title: Regulatory Manager Email: socorro.hendry@octane-energy.com Date: 12/20/2024

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QUESTIONS (continued)

Operator: CAMBRIAN MANAGEMENT LTD 310 W Wall Street Ste 300 Midland, TX 79701	OGRID: 198688
	Action Number: 414446
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	92.5
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	394
GRO+DRO (EPA SW-846 Method 8015M)	394
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
On what estimated date will the remediation commence	09/23/2024
On what date will (or did) the final sampling or liner inspection occur	11/04/2024
On what date will (or was) the remediation complete(d)	11/15/2024
What is the estimated surface area (in square feet) that will be reclaimed	1000
What is the estimated volume (in cubic yards) that will be reclaimed	40
What is the estimated surface area (in square feet) that will be remediated	1000
What is the estimated volume (in cubic yards) that will be remediated	40
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.	
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

Operator: CAMBRIAN MANAGEMENT LTD 310 W Wall Street Ste 300 Midland, TX 79701	OGRID: 198688
	Action Number: 414446
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and **off-site** disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for **off-site** disposal	TNM-55-95 [fAB0000000061]
OR which OCD approved well (API) will be used for **off-site** disposal	*Not answered.*
OR is the **off-site** disposal site, to be used, out-of-state	*Not answered.*
OR is the **off-site** disposal site, to be used, an NMED facility	*Not answered.*
(Ex Situ) Excavation and **on-site** remediation (i.e. On-Site Land Farms)	*Not answered.*
(In Situ) Soil Vapor Extraction	*Not answered.*
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	*Not answered.*
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	*Not answered.*
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	*Not answered.*
Ground Water Abatement pursuant to 19.15.30 NMAC	*Not answered.*
OTHER (Non-listed remedial process)	*Not answered.*
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Socorro Hendry Title: Regulatory Manager Email: socorro.hendry@octane-energy.com Date: 12/20/2024
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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QUESTIONS (continued)

Operator: CAMBRIAN MANAGEMENT LTD 310 W Wall Street Ste 300 Midland, TX 79701	OGRID: 198688
	Action Number: 414446
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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QUESTIONS (continued)

Operator: CAMBRIAN MANAGEMENT LTD 310 W Wall Street Ste 300 Midland, TX 79701	OGRID: 198688
	Action Number: 414446
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	**397635**
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	**11/04/2024**
What was the (estimated) number of samples that were to be gathered	**2**
What was the sampling surface area in square feet	**200**

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	**Yes**
Was this release entirely contained within a lined containment area	**No**
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	1000
What was the total volume (cubic yards) remediated	40
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	1000
What was the total volume (in cubic yards) reclaimed	40
Summarize any additional remediation activities not included by answers (above)	The excavation will be backfilled with clean soil upon approval of this closure request and 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.

I hereby agree and sign off to the above statement	Name: Socorro Hendry Title: Regulatory Manager Email: socorro.hendry@octane-energy.com Date: 12/20/2024

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

QUESTIONS (continued)

Operator: CAMBRIAN MANAGEMENT LTD 310 W Wall Street Ste 300 Midland, TX 79701	OGRID: 198688
	Action Number: 414446
	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

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

CONDITIONS

Operator:	OGRID:
CAMBRIAN MANAGEMENT LTD 310 W Wall Street Ste 300 Midland, TX 79701	198688
	Action Number: 414446
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your Remediation Closure Report for Incident #NAPP2426159828 CHEM STATE #1, thank you. This Remediation Closure Report is approved.	1/14/2025