

**Released Volume Calculation**

Length	110 feet
Width	35 feet
Thickness	0.5 in

1,925 gal = 46 Est. Total Bbls Released

Volume = L\*W\*T

Total Released Volume = 1,925 gallons (US, dry)  
46 Bbls



# Revised Site Characterization Report and Remediation Workplan

January 18, 2026

**Hale State #004  
API 30-025-39785  
Produced Water Release  
Incident No. nAPP2515675866  
Lea County, New Mexico**

**Prepared For:**

BXP Operating, LLC  
11757 Katy Freeway, Suite 475  
Houston, Texas 77079

**Prepared By:**

Crain Environmental  
2925 East 17<sup>th</sup> Street  
Odessa, Texas 79761

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

Cynthia K. Crain, P.G.



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## 1.0 Introduction

BXP Operating, LLC (BXP) has retained Crain Environmental (CE) to oversee investigation and remediation activities at the Hale State #004 (Site), located in Unit Letter D, Section 31, Township 17 South, Range 34 East, Lea County, New Mexico, at Global Positioning Coordinates (GPS) 32.7976074, -103.6048355. The property surface rights are owned by the State of New Mexico.

The Hale State #004 is located approximately 18 miles southwest of Lovington, New Mexico, in an area of oil and gas activity. No surface water is present in the area, and vegetation is sparse.

The Site can be accessed by traveling west from Hobbs, New Mexico on Highway 62 for approximately 12 miles Highway 529. Continue west and northwest of Highway 529 for 14.5 miles to Querecho Road. Turn north and continue 2.87 miles to a lease road. Turn west for 0.35 mi and turn north. Continue north on the lease road for 1.14 miles to the Site. There are no locked gates or other access issues. The attached Figure 1 shows the well location.

## 2.0 Background

In August of 2024, BXP submitted an Application for Salt Water Disposal Easement (Easement) at the Hale State #004. On August 27, 2024, BXP received an email from the Environmental Compliance Office (ECO) of the New Mexico State Land Office (NMSLO) stating they had been notified by NMSLO Water Bureau of issues with the subject SWD. The ECO said that “historical imagery and a site inspection in 2023 disclose multiple releases in the tank battery and areas of concern on the well pad that may be unreported spills/releases. Per SWD contract, containment is required to be kept free of liquids and NMOCD requires that all contaminated media be washed and/or removed after a release. Additionally, there is an open NMOCD incident that needs to be resolved with NMOCD and ECO: nKJ1605041878”.

The Hale State #004 was purchased by BXP from Pogo Oil and Gas Operating, Inc. in January of 2020. Prior to May 2018, the site was operated by Linn Operating LLC. A review of the New Mexico Oil Conservation Division (NMOCD) database records shows that a historic incident review has been conducted of Incident #nKJ1605041878. On March 14, 205, the NMOCD cancelled this Incident #, stating that it is a duplicate of Incident #nKJ1605338209”. NMOCD records show “Incident Closure Approved” for Incident #nKJ1605338209.

On March 31, 2025, the ECO requested that a Site Assessment Workplan be submitted by April 11, 2025, for areas of the subject location shown on Figure 2. On April 7, 2025, a Site Assessment Workplan was submitted to the ECO that included BXP proposed actions to investigate the disposition of the tank battery liner and soil conditions in areas surrounding the tank battery and on the well pad as noted by the ECO. Figure 2 shows the areas requested for investigation by the ECO.

On May 9 and May 12, 2025, an investigation was conducted of the Hale State #4 tank battery, and soil samples were collected from the areas of concern. On June 23, 2025, a Site Characterization Report and Remediation Workplan (Workplan) was submitted to the NMOCD and the ECO. On June 20, 2025, the Workplan was approved by the ECO. On September 24, 2025, the Workplan was rejected by the NMOCD for the following reasons:

Hale State #004 Produced Water Release  
Revised Site Characterization Report and Remediation Workplan



1. An initial C-141 must be submitted and approved prior to submitting a remediation plan.
2. If nearby wells are used to determine depth to groundwater, the wells should be no further than ½ mile away from the site, data must be no more than 25 years old, and well construction information must be provided. If evidence of depth to ground water within a ½ mile radius of the site cannot be provided, impacted soils will need to meet Table 1 Closure Criteria for ground water at a depth of 50 feet or less. L01695 POD 2 shows to be .62 miles NW of the incident location provided.
3. Horizontal delineation has not been determined in any of the areas of concern.
4. If the tank battery is in a lined containment, a liner inspection will also need to be completed. The work will need to occur in days after the report has been reviewed.

As a revised Workplan was due by December 23, 2025, a 90-day request for extension was submitted to the NMOCD on December 18, 2025, and an Initial C-141 was submitted. On December 22, 2025, the extension and C-141 were approved, and a new due date of March 23, 2026 was provided. Appendix A provides a copy of NMOCD communication.

This Revised Site Characterization Report and Remediation Workplan addressed the reasons for NMOCD rejection that are stated above, has been prepared in accordance with 19.15.29.11 New Mexico Administrative Code (NMAC), and provides results of the May 2025 investigation and proposed actions for soil remediation.

### 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 several water wells located within a 0.5-mile radius of the Site with depth to groundwater provided. Figure 3 provides a wellhead protection area map that shows the location of water wells within a 0.5-mile radius of the Site, and each well is listed in the table below. NMOSE water well records with depth to groundwater listed are provided in Appendix B.

**Nearby Water Wells**

Well ID	Location from Release Site	Year Installed	Use	Depth to Water (feet bgs)
L 01696 S	Approx. 0.32 miles to NE	1967	N/A	106
L 01696 S3	Approx. 0.29 miles to NE	1991	N/A	168
L 01697 POD 2	Approx. 0.26 miles to NE	1959	N/A	140
L 03398	Approx. 0.29 miles to NE	1957	N/A	125
L 03795	Approx. 0.29 miles to NE	1961	N/A	100

### 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 aerial map (Figure 3).
- Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary highwater mark).
  - The aerial map (Figure 3) indicates there is not a lakebed, sinkhole or playa lake located within 200 feet of the Site; however, there is a playa located approximately 0.8 miles (400 feet) northeast of the location.
- Within 300 feet from an occupied permanent residence, school, hospital, institution or church.
  - The Site Location Map (Figure 1) and information available from the Lea County, New Mexico Central Appraisal District do not show or list any permanent residence, school, hospital, institution or church located within 300 feet of the Site.
- Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes.
  - No wells or springs located within 500 feet of the Site appear in any of the NMOSE records reviewed by CE.
- Within 1,000 feet of any fresh water well or spring.



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

**3.3 Wetlands, Floodplain, and Karst Geology**

A review of the United States Fish and Wildlife Service (USFWS) wetlands map indicated the Site is not located within 300 feet of a wetland; however, a freshwater emergent wetland is located approximately 400 feet northeast of the location. 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**

A review of the New NMOSE records indicated several water wells located within a 0.5-mile radius of the Site with depth to groundwater provided; however, each of the wells were installed more than 25 years ago. Figure 3 provides a 0.5-mile radius around the Site and shows the locations of NMOSE water wells.

According to available well records, the depth to groundwater at the Site is assumed to be greater than 100 feet below ground surface (bgs); however, the most stringent Closure Criteria will be required unless depth to groundwater is proven. NMOSE water well records with depth to groundwater listed are provided in Appendix B. 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



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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 in Figure 2.

##### **4.2 Depth to Groundwater**

As discussed in Sections 3.1 and 3.4, the depth to groundwater at the Site is currently assumed to be less than 50' bgs due to the date of water well information within a 0.5-mile radius of the Site.

##### **4.3 Wellhead Protection Area**

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

##### **4.4 Distance to Nearest Significant Watercourse**

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

##### **4.5 Initial Delineation Activities**

On May 9 and May 12, 2025, a visual inspection was conducted of the lined tank battery, and soil samples were collected from 11 locations (TH-1 to TH-11) as approved by the ECO in the Site Assessment Workplan.

A visual inspection of the tank battery containment showed that a minor amount of rainwater was present within the containment. No oily fluids were present, and the liner was completely intact.

Test holes were dug using a backhoe, and samples were collected from each test hole at the surface (0-6"), at depth of 1' bgs, 2' bgs, 3' bgs, and at the total depth of the test hole (4' bgs). Each sample was field tested for chloride concentrations, and at least two samples from each test hole were submitted to an accredited laboratory for analysis.

All samples 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 8015 Modified, benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, and chlorides by EPA Method 300.0.

Laboratory results were received on May 16, 2025, and a Notice of Release (NOR) was submitted to the NMOCD on June 5, 2025. The NMOCD assigned Incident # nAPP2515675866 to the release.

Table 1 provides a summary of laboratory results. Figure 2 shows the sample locations and concentrations. Appendix C provides a copy of the laboratory report and chain of custody documentation. Appendix D provides a photographic log of site assessment activities.

Referring to Table 1, concentrations of benzene and BTEX were reported below the test method detection limits in each sample, concentrations of TPH were reported below the Closure Criteria in each sample, and concentrations of chlorides were reported above the Closure Criteria in each sample collected from test holes TH-1, TH-6, and TH-7 (at depths of 1', 2', 3', and 4' bgs), and in one sample from test hole TH-8 (at 1' bgs). All other samples reported chloride concentrations below the Closure Criteria.

#### **4.6 Laboratory Analytical Data Quality Assurance/Quality Control Results**

Laboratory data in Job Number 880-58051-1 generated by Eurofins, was reviewed to ensure that reported analytical results met data quality objectives. It was determined by quality control data associated with analytical results that reported concentrations of target analytes are defensible and that measurement data reliability is within the expected limits of sampling and analytical error. All analytical results are usable for characterization of soil at the Site. The laboratory analytical results are provided as Appendix C.

#### **5.0 Proposed Remediation and Reclamation Activities**

As part of the Easement application, an Archaeological Survey was conducted. A copy of the Cover Sheet for NMCRIS Activity Number 156674 is included as Appendix E. A biological desktop review was conducted, and no sensitive wildlife or plant species were found in proximity to the subject Site. A copy of the U.S. Fish & Wildlife Service database review is included as Appendix F.

Concentrations of TPH, benzene, and BTEX were reported below the test method detection limits or Closure Criteria in each sample. Concentrations of chlorides were reported above the Closure Criteria in each sample collected from test holes TH-1, TH-6, and TH-7 (at depths of 1', 2', 3', and 4' bgs), and in one sample from test hole TH-8 (at 1' bgs).

BXP proposes to install one soil boring to a depth of 51' bgs to determine an accurate depth to groundwater. Temporary casing will be installed in the boring, and the boring will remain open for a period of at least 72 hours. After the 72-hour period, a water level indicator will be used to determine if groundwater is present.



If groundwater is not present in the bore hole, the boring will be plugged with bentonite and the Closure Criteria for TPH will be increased to 2,500 mg/kg (for GRO+DRO+MRO) or 1,000 mg/kg (for GRO+DRO) and the chloride Criteria will be increased to 10,000 mg/kg.

As the tank battery is in a lined containment, a liner inspection will be completed following the proper liner inspection notification to the NMOCD and ECO.

BXP proposes to excavate all impacted soil at sample points TH-1, TH-6, TH-7, and TH-8 until confirmation samples collected from the bottom and sidewalls of each excavation report chloride concentrations below the most stringent NMOCD Closure Criteria in the upper 4 feet, and below the moderately stringent Closure Criteria at depths below 4', if the depth to groundwater is proven to be greater than 50' bgs. If the depth to groundwater is proven to be less than 50' bgs, all soil will be remediated to the most stringent Closure Criteria, regardless of depth. As horizontal and vertical delineation activities during excavation/remediation activities are commonly approved by the NMOCD, BXP has elected to conduct horizontal and vertical delineation activities during excavation/remediation.

As TPH and BTEX concentrations in the investigation samples were reported below the test method detection limit or Closure Criteria, confirmation samples will not be analyzed for TPH or BTEX.

All excavated soil from each area will be disposed of at an NMOCD approved disposal facility. Figure 7 shows the estimated area proposed for remediation. The remediation areas cover an estimated surface area of 3,325 square feet, and approximately 493 cubic yards (cy) of soil will be hauled to disposal.

Upon receipt of laboratory results that all chloride concentrations are below the Closure Criteria, the excavation will be backfilled to grade with non-impacted similar material obtained from a landowner pit. Prior to use as backfill, a confirmation sample will be collected from the backfill material for analysis of TPH, BTEX, and chlorides. 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.

As the area of remediation is located on an active well pad, the area will not be seeded upon completion of backfilling.

All activities will be documented with photographs, and a Closure Report will be submitted to the NMOCD and ECO upon receipt of final laboratory results.

## 6.0 Schedule of Implementation

Site remediation activities will begin within 90 days of NMOCD and ECO approval of this Workplan, and a Closure Report will be submitted to the NMOCD and ECO within 30 days of receipt of acceptable final laboratory results.

BXP respectfully requests a remediation schedule of 180 days from the date of NMOCD approval of this Remediation Workplan to complete the proposed remediation activities and submit a *Remediation Summary and Closure Report* for approval.



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**7.0 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: Environmental Compliance Office  
ECO@nmslo.gov



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**TABLE**

Table 1  
 Summary of Soil Sample Analyses  
 BXP Operating, LLC  
 Hale State #004

Sample ID	Sample Date	Sample Depth (feet bgs)	Soil Status	TPH	TPH	TPH	Total TPH	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	Chloride
				(GRO)	(DRO)	(MRO)		milligrams per kilogram (mg/kg)					
NMOCD Closure Criteria				-	-	-	100	10	-	-	-	50	600
TH-1 (1)	05/09/25	1	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00139	<0.00200 F1	<0.00109 F1	<0.00228 F1	<0.00228	18,400
TH-1 (2)	05/09/25	2	In Situ	<14.4	<15.0	<15.0	<15.0	<0.00134	<0.00192	<0.00105	<0.00219	<0.00219	4,010
TH-1 (3)	05/09/25	3	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	6,310
TH-1 (4)	05/09/25	4	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00122	<0.00175	<0.000952	<0.00200	<0.00200	6,100
TH-2 (1)	05/09/25	1	In Situ	<14.4	<15.0	<15.0	<15.0	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	120
TH-2 (4)	05/09/25	4	In Situ	<14.6	<15.2	<15.2	<15.2	<0.00138	<0.00198	<0.00108	<0.00227	<0.00227	106
TH-3 (1)	05/09/25	1	In Situ	<14.6	<b>19.6 J B</b>	<15.2	<b>19.6 J</b>	<0.00140	<0.00201	<0.00109	<0.00229	<0.00229	110
TH-3 (4)	05/09/25	4	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00138	<0.00198	<0.00108	<0.00226	<0.00226	98.1
TH-4 (1)	05/09/25	1	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00139	<0.00199	<0.00108	<0.00228	<0.00228	117
TH-4 (4)	05/09/25	4	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	82.9 F1
TH-5 (1)	05/09/25	1	In Situ	<14.4	<b>17.8 J B</b>	<15.0	<b>17.8 J</b>	<0.00139	<0.00199	<0.00108	<0.00228	<0.00228	526
TH-5 (4)	05/09/25	4	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	162
TH-6 (1)	05/09/25	1	In Situ	<14.5	<b>39.4 J B</b>	<15.1	<b>39.4 J</b>	<0.00138	<0.00198	<0.00108	<0.00226	<0.00226	16,100
TH-6 (2)	05/09/25	2	In Situ	<14.6	<b>35.1 J B</b>	<15.2	<b>35.1 J</b>	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	7,420
TH-6 (3)	05/09/25	3	In Situ	<14.5	<b>26.5 J B</b>	<15.1	<b>26.5 J</b>	<0.00139	<0.00200	<0.00109	<0.00229	<0.00229	641
TH-6 (4)	05/09/25	4	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	2,980
TH-7 (1)	05/12/25	1	In Situ	<14.6	<b>25.5 J B</b>	<15.2	<b>25.5 J</b>	<0.00139	<0.00199	<0.00108	<0.00228	<0.00228	11,700
TH-7 (2)	05/12/25	2	In Situ	<14.6	<15.3	<15.3	<15.3	<0.00138	<0.00198	<0.00108	<0.00226	<0.00226	8,850
TH-7 (3)	05/12/25	3	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00139	<0.00199	<0.00108	<0.00228	<0.00228	874
TH-7 (4)	05/12/25	4	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00138	<0.00198	<0.00108	<0.00226	<0.00226	656 F1
TH-8 (1)	05/12/25	1	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	674
TH-8 (4)	05/12/25	4	In Situ	<14.4	<15.0	<15.0	<15.0	<0.00140	<0.00201	<0.00109	<0.00229	<0.00229	160
TH-9 (1)	05/12/25	1	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00138	<0.00198	<0.00108	<0.00226	<0.00226	195
TH-9 (4)	05/12/25	4	In Situ	<14.6	<15.2	<15.2	<15.2	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	113
TH-10 (1)	05/12/25	1	In Situ	<14.6	<15.2	<15.2	<15.2	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	142
TH-10 (4)	05/12/25	4	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00140	<0.00201	<0.00109	<0.00229	<0.00229	109
TH-11 (1)	05/12/25	1	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	136
TH-11 (4)	05/12/25	4	In Situ	<14.6	<15.2	<15.2	<15.2	<0.00139	<0.00199	<0.00108	<0.00228	<0.00228	104

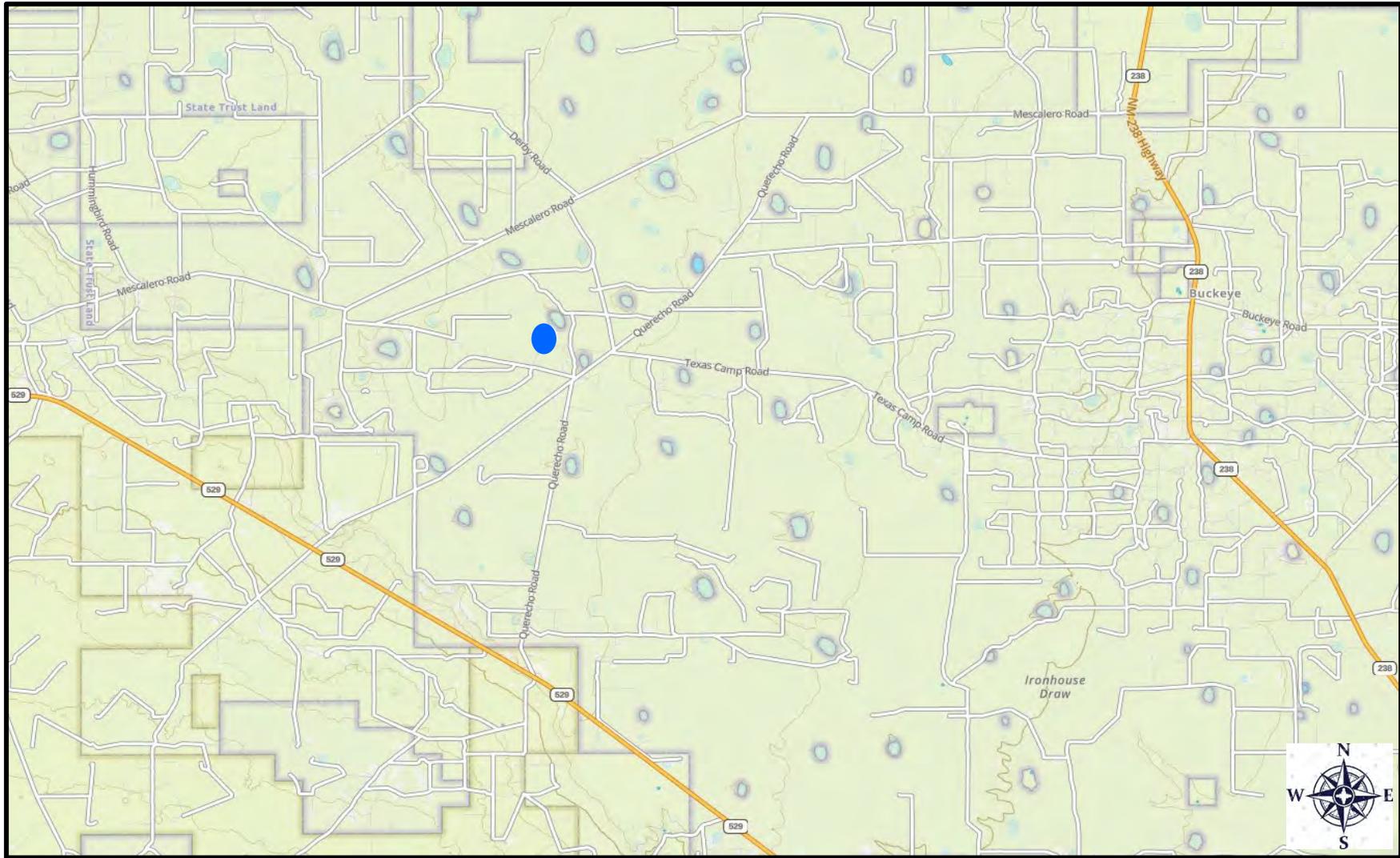
Notes:

- GRO: Gasoline Range Organics
- DRO: Diesel Range Organics
- MRO: Motor Oil Range Organics
- bgs: below ground surface
- Bold and highlighting indicates the COC was detected above the NMOCD Closure Criteria.
- < indicates the COC was below the appropriate laboratory method/sample detection limit
- Yellow highlighting indicates the COC concentration exceeds the NMOCD Closure Criteria
- F1: MS and/or MSD recovery exceeds control limits.
- J: Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
- B: Compound was found in the blank and sample.

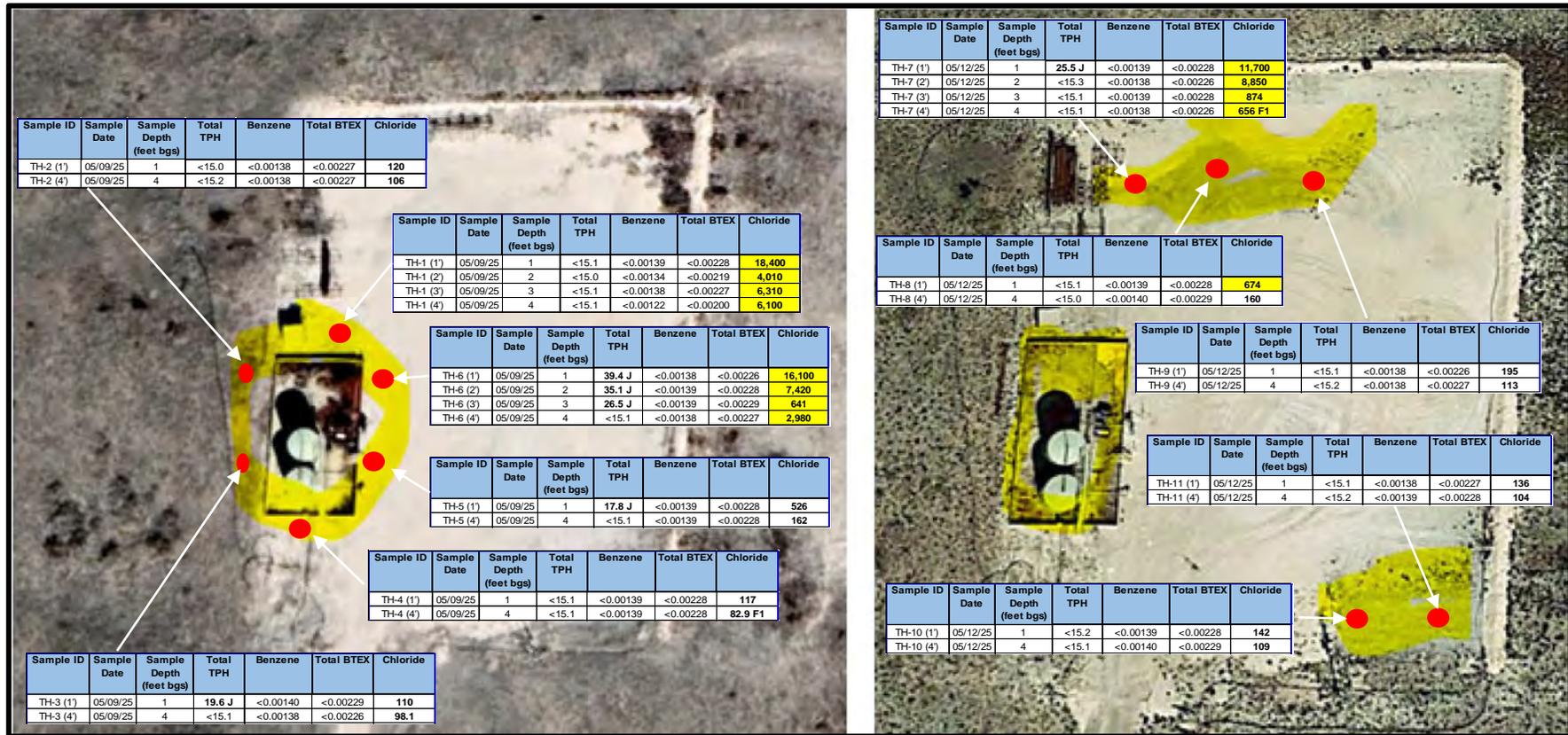


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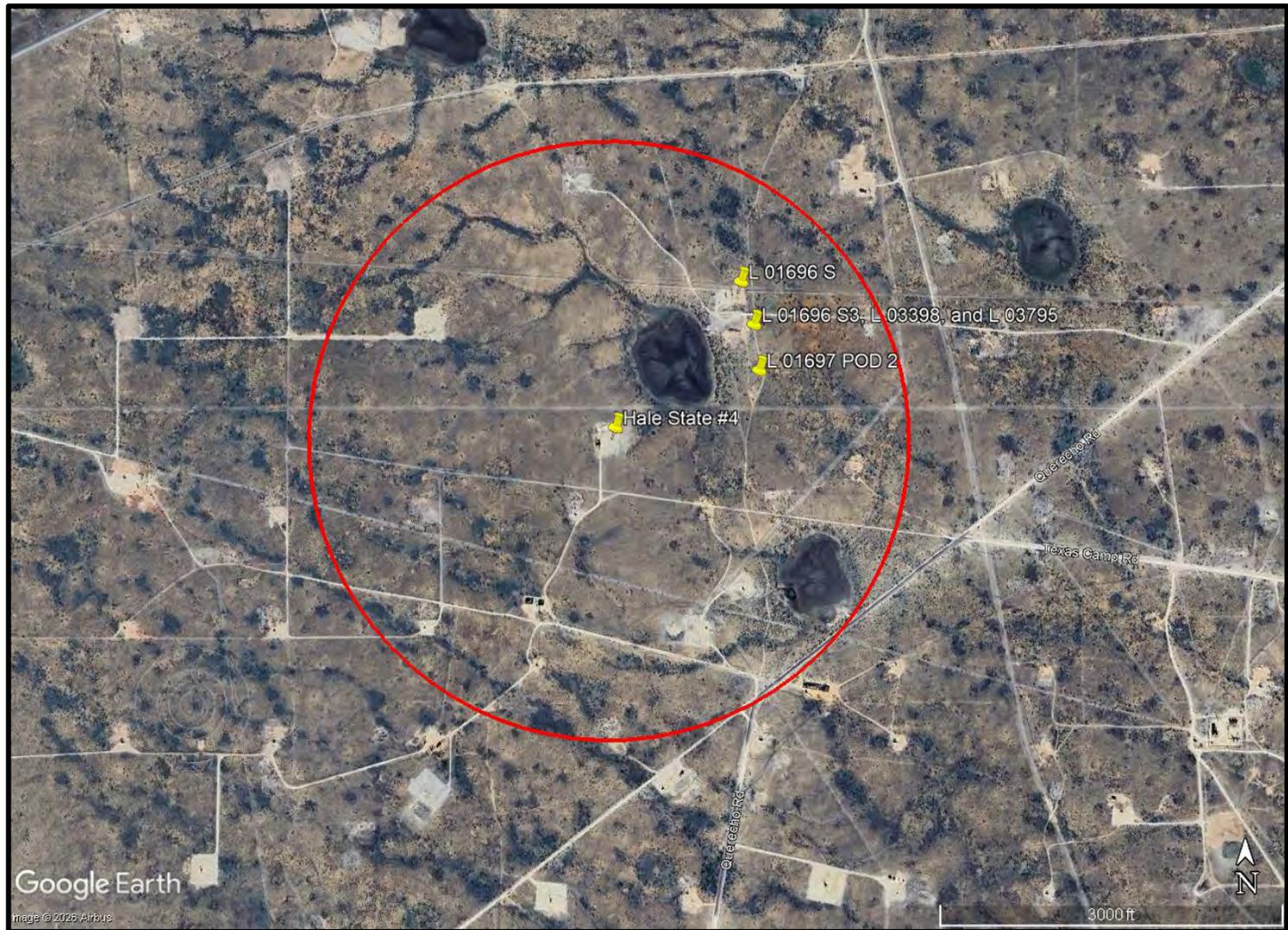
## FIGURES



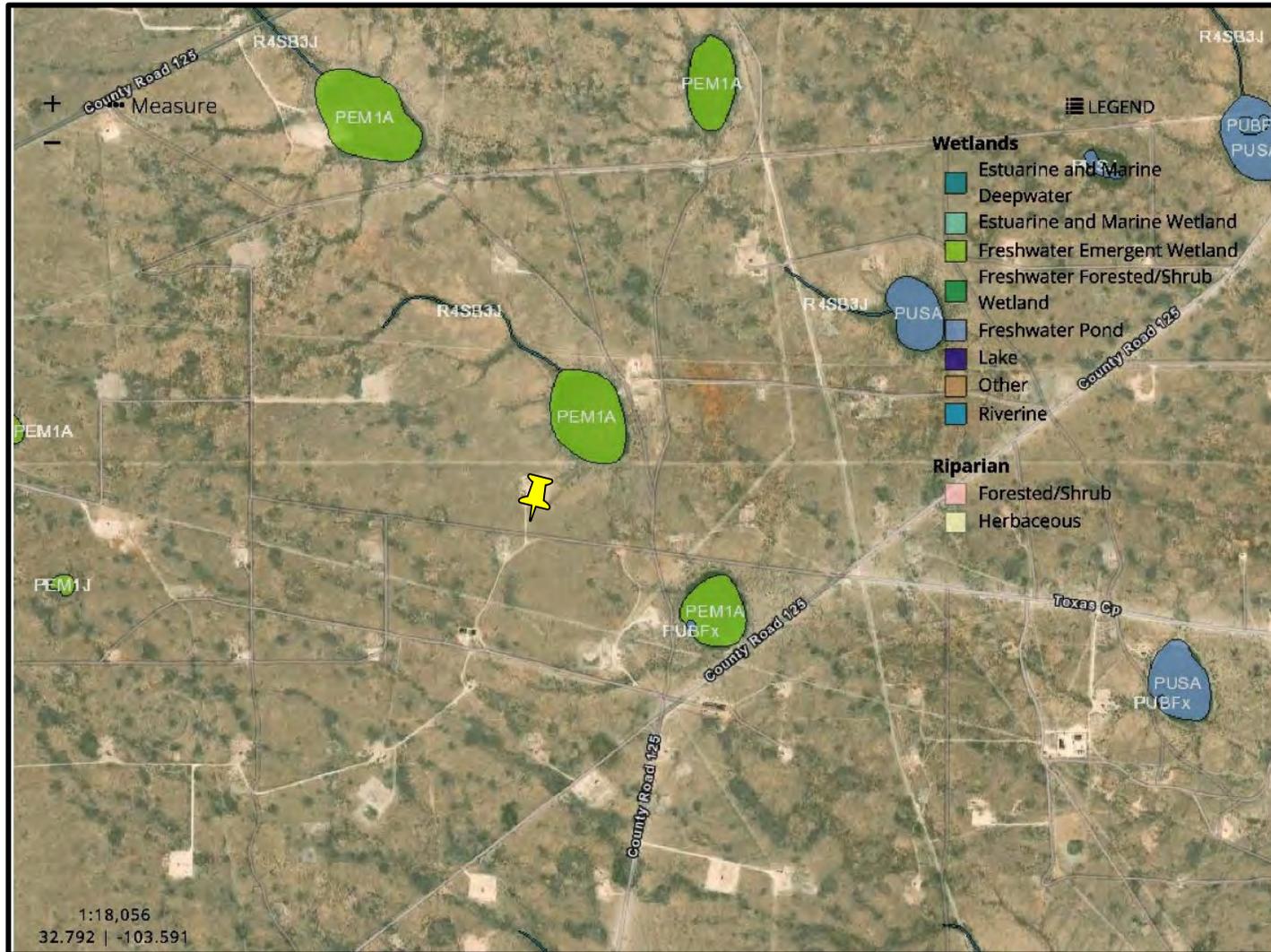
<p><b>LEGEND:</b></p> <p> Site Location</p> <p>Base Map from GAIA GPS</p>	<p align="center"><b>Figure 1</b>          Site Location Map          BXP Operating, LLC          Hale State #004          Lea County, New Mexico</p>	<p>Drafted by: CC   Checked by: CC</p> <p>Draft: June 23, 2025</p> <p>GPS: 32.7976074° -103.6048355°</p>	
--	---	--	---



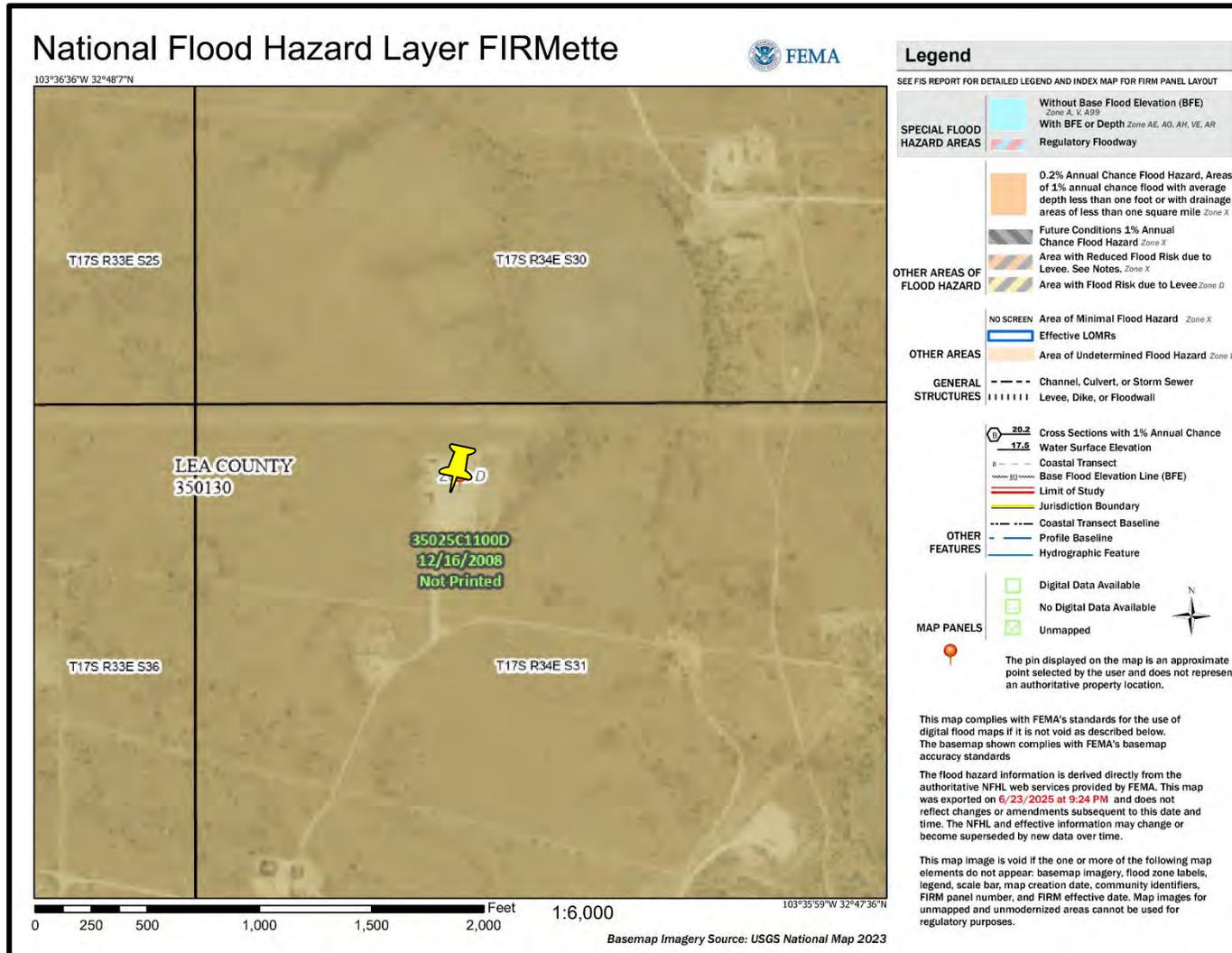
<b>LEGEND:</b> Sample Location with Concentrations (mg/kg). Environmental Compliance Office Area of Concern Highlighted cells indicate concentrations above the Closure Criteria	<b>Figure 2</b> Sample Location Map BXP Operating, LLC Hale State #004 Lea County, New Mexico	Drafted by: CC   Checked by: CC	
		Draft: June 23, 2025	
GPS: 32.7976074° -103.6048355°			
Base Map from Google Earth Pro			



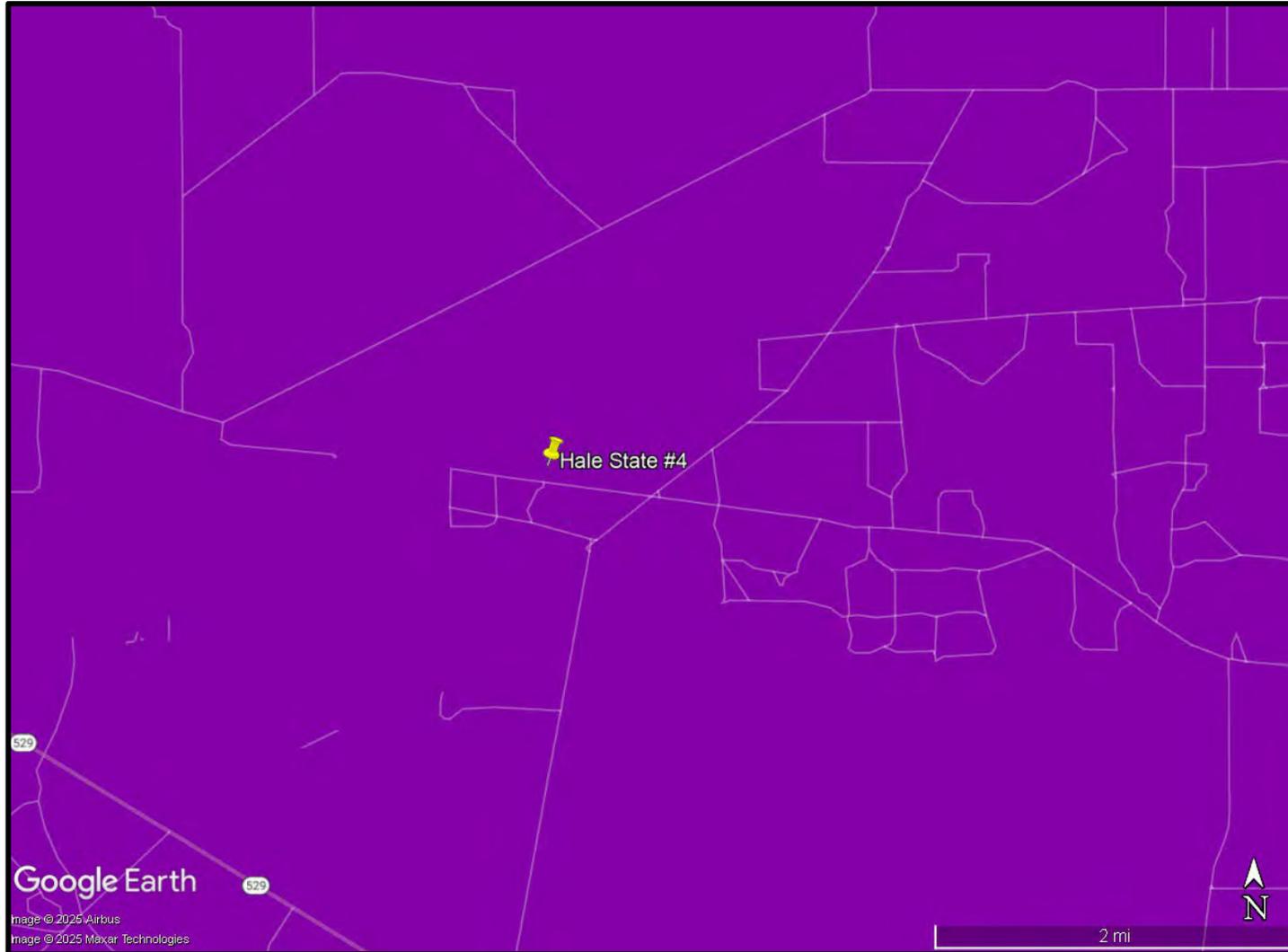
<b>LEGEND:</b>  Site and Water Well Locations  0.5-Mile Radius  Base Map from Google Earth	<b>Figure 3</b> Wellhead Protection Area Map BXP Operating, LLC Hale State #004 Lea County, New Mexico	Drafted by: CC   Checked by: CC	
		Draft: Jan. 18, 2026	
		GPS: 32.7976074° -103.6048355°	



<b>LEGEND:</b>  Site Location  Base Map from US Fish & Wildlife Service	<b>Figure 4</b> National Wetlands Inventory Map BXP Operating, LLC Hale State #004 Lea County, New Mexico	Drafted by: CC   Checked by: CC	
		Draft: April 5, 2025	
GPS: 32.7976074° -103.6048355°			
(Empty cell)			
(Empty cell)			



<p><b>LEGEND:</b></p> <p> Site Location</p> <p>Base Map from FEMA</p>	<p><b>Figure 5</b></p> <p>FEMA Floodplain Map</p> <p>BXP Operating, LLC</p> <p>Hale State #004</p> <p>Lea County, New Mexico</p>	Drafted by: CC   Checked by: CC	
		Draft: June 23, 2025	
GPS: 32.7976074° -103.6048355°			



<b>LEGEND:</b>  Low Karst Potential  Medium Karst Potential  High Karst Potential Base Map from Google Earth Pro and BLM	<b>Figure 6</b> Karst Potential Map BXP Operating, LLC Hale State #004 Lea County, New Mexico	Drafted by: CC   Checked by: CC	
		Draft: April 5, 2025	
GPS: 32.7976074° -103.6048355°			



<b>LEGEND:</b>	<p align="center"><b>Figure 7</b>                  Estimated Remediation Boundaries                  BXP Operating, LLC                  Hale State #004                  Lea County, New Mexico</p>	Drafted by: CC   Checked by: CC	
<ul style="list-style-type: none"> <li><span style="color: red;">●</span> Sample Location with Concentrations (mg/kg).</li> <li><span style="border: 2px solid yellow; display: inline-block; width: 20px; height: 10px;"></span> Environmental Compliance Office Area of Concern</li> <li><span style="border-bottom: 2px dashed red; width: 20px; display: inline-block;"></span> Estimated Area of Remediation</li> </ul>		Draft: June 23, 2025	
		GPS: 32.7976074° -103.6048355°	
		Base Map from Google Earth Pro	



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**Appendix A: NMOCD Communication**

## The Oil Conservation Division (OCD) has rejected the application, Application ID: 478132

Inbox

Crain Environmental/BXP Hale State #4



OCDOnline@state.nm.us

Sep 24, 2025,  
5:49 PM

to me

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

The OCD has rejected the submitted *Application for administrative approval of a release notification and corrective action (C-141)*, for incident ID (n#) nAPP2515675866, for the following reasons:

- **The remediation plan is denied. 1) An initial C-141 must be submitted and approved prior to submitting a remediation plan. 2) If nearby wells are used to determine depth to groundwater, the wells should be no further than ½ mile away from the site, data must be no more than 25 years old, and well construction information must be provided. If evidence of depth to ground water within a ½ mile radius of the site cannot be provided, impacted soils will need to meet Table 1 Closure Criteria for ground water at a depth of 50 feet or less. L01695 POD 2 shows to be.62 miles NW of the incident location provided. 3) Horizontal delineation has not been determined in any of the areas of concern. 4) If the tank battery is in a lined containment, a liner inspection will also need to be completed. The work will need to occur in 90 days after the report has been reviewed.**

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 478132.

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

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

Thank you,  
Scott Rodgers  
Environmental Specialist - A  
505-469-1830  
[scott.rodgers@emnrd.nm.gov](mailto:scott.rodgers@emnrd.nm.gov)

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

Dec 18, 2025,  
11:00 AM

to Scott,

Hi Scott -

A C-141 was submitted to the fee portal today (12/18/25) for Incident #nAPP2515675866, and a revised report is in progress.

In your denial explanation, you included Item 3) Horizontal delineation has not been determined in any of the areas of concern as a reason for denial. All remediation workplans submitted in the recent past have been approved by multiple OCD staff when the report states that complete horizontal and vertical delineation will be completed during remediation. Will you approve that proposed plan in a revised report?

As the revised report is due by 12/23/25, BXP respectfully requests a 90-day extension to complete and submit the report. Every effort will be made to submit the revised report as quickly as possible.

Please let me know if you have any questions or need additional information at this time.

Thank you,  
Cindy Crain



**Rodgers, Scott, EMNRD**

Dec 22, 2025,  
3:37 PM

to me

Your time extension request is approved. Remediation Due date has been updated to March 23, 2026 within the incident page. Ensure that the site characterization/assessment report has been completed and is provided within the final closure report.

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

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

Thank you,  
Scott

**Scott Rodgers** • Environmental Specialist – Adv.  
Environmental Bureau  
EMNRD - Oil Conservation Division  
5200 Oakland NE, Suite B | Albuquerque, NM 87113  
505.469.1830 | [scott.rodgers@emnrd.nm.gov](mailto:scott.rodgers@emnrd.nm.gov)  
<http://www.emnrd.nm.gov/ocd>



Cindy Crain <cindy.crain@gmail.com>

---

**The Oil Conservation Division (OCD) has approved the application, Application ID: 536139**

1 message

---

**OCDOnline@emnrd.nm.gov** <OCDOnline@emnrd.nm.gov>  
To: cindy.crain@gmail.com

Mon, Dec 22, 2025 at 2:27 PM

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

The OCD has approved the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2515675866, with the following conditions:

- **None**

The signed C-141 can be found in the OCD Online: Imaging under the incident ID (n#).

If you have any questions regarding this application, please contact me.

Thank you,  
Scott Rodgers  
Environmental Specialist - A  
505-469-1830  
[scott.rodgers@emnrd.nm.gov](mailto:scott.rodgers@emnrd.nm.gov)

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



---

**Appendix B: NMOSE Water Well Records**

## Point of Diversion Summary

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

NAD83 UTM in meters

Well Tag	POD Nbr	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map
L 01696	POD5	SE	SE	NW	30	17S	34E	630974.0	3630716.0	

\* UTM location was derived from PLSS - see Help

**Driller License:**      **Driller Company:**

**Driller Name:**

**Drill Start Date:**      **Drill Finish Date:**      **Plug Date:**

**Log File Date:**      **PCW Rcv Date:**      **Source:**      Shallow

**Pump Type:**      **Pipe Discharge Size:**      **Estimated Yield:**

**Casing Size:**      **Depth Well:**      **Depth Water:**

### Meter Information

<b>Meter Number:</b>	19962	<b>Meter Make:</b>	FOXBORO
<b>Meter Serial Number:</b>	15042405	<b>Meter Multiplier:</b>	1.0000
<b>Number of Dials:</b>	9	<b>Meter Type:</b>	Diversion
<b>Unit of Measure:</b>	Gallons	<b>Reading Frequency:</b>	Quarterly

### Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount	Online
2019-01-01	2019	146879000.000	A	dd		0.000	
2019-03-31	2019	162771000.000	A	dd		48.771	
2019-12-31	2019	193004000.000	A	dd		92.782	
2020-10-01	2020	229583000.000	A	dd		112.257	
2020-12-31	2020	239282000.000	A	dd		29.765	
2021-03-31	2021	242365000.000	A	dd		9.461	
2021-10-01	2021	242365000.000	A	dd		0.000	
2021-12-31	2021	242365000.000	A	dd		0.000	
2022-03-31	2022	252775000.000	A	dd		31.947	

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount	Online
2022-07-01	2022	262113000.000	A	dd		28.657	
2022-12-31	2022	284371000.000	A	dd		68.307	

**YTD Meter Amounts:**

Year	Amount
2019	141.553
2020	142.022
2021	9.461
2022	128.911

---

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# Point of Diversion Summary

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

NAD83 UTM in meters

Well Tag	POD Nbr	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map
214F8	L 01696 POD6	NE	SE	SW	30	17S	34E	630991.0	3630015.0	

\* UTM location was derived from PLSS - see Help

Driller License: Driller Company:

Driller Name:

Drill Start Date: Drill Finish Date: Plug Date:

Log File Date: PCW Rcv Date: Source:

Pump Type: Pipe Discharge Size: Estimated Yield:

Casing Size: Depth Well: Depth Water:

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## Point of Diversion Summary

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

NAD83 UTM in meters

Well Tag	POD Nbr	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map
NA	L 01696 S	SE	NE	NE	27	17S	34E	636683.8	3631224.0	

\* UTM location was derived from PLSS - see Help

---

<b>Driller License:</b> 46	<b>Driller Company:</b> ABBOTT BROTHERS COMPANY		
<b>Driller Name:</b> MURRELL ABBOTT			
<b>Drill Start Date:</b> 1967-10-09	<b>Drill Finish Date:</b> 1967-10-15	<b>Plug Date:</b>	
<b>Log File Date:</b> 1967-11-20	<b>PCW Rcv Date:</b> 1968-01-11	<b>Source:</b>	Shallow
<b>Pump Type:</b> TURBIN	<b>Pipe Discharge Size:</b>	<b>Estimated Yield:</b>	
<b>Casing Size:</b> 14.00	<b>Depth Well:</b> 243	<b>Depth Water:</b>	106

---

### Water Bearing Stratifications:

Top	Bottom	Description
106	124	Other/Unknown
145	210	Other/Unknown
213	230	Sandstone/Gravel/Conglomerate

---

### Casing Perforations:

Top	Bottom
122	233

---

### Meter Information

<b>Meter Number:</b> 19966	<b>Meter Make:</b> FOXBORO		
<b>Meter Serial Number:</b> 19371245	<b>Meter Multiplier:</b> 1.0000		
<b>Number of Dials:</b> 9	<b>Meter Type:</b> Diversion		
<b>Unit of Measure:</b> Gallons	<b>Reading Frequency:</b> Quarterly		

---

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount	Online
2019-03-31	2019	0.000	A	dd		0.000	
2019-12-31	2019	0.000	A	dd		0.000	
2020-07-01	2020	26862000.000	A	dd		82.436	
2020-10-01	2020	31515000.000	A	dd		14.280	
2020-12-31	2020	40631000.000	A	dd		27.976	
2021-03-31	2021	57289000.000	A	dd		51.122	
2021-07-01	2021	63056000.000	A	dd		17.698	
2021-10-01	2021	70997000.000	A	dd		24.370	
2021-12-31	2021	92794000.000	A	dd		66.893	
2022-03-31	2022	107390000.000	A	dd		44.793	
2022-07-01	2022	112469000.000	A	dd		15.587	
2022-12-31	2022	131731000.000	A	dd		59.113	

**YTD Meter Amounts:**

Year	Amount
2019	0.000
2020	124.692
2021	160.083
2022	119.493

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## Point of Diversion Summary

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

NAD83 UTM in meters

Well Tag	POD Nbr	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map
L 01696 S2	SW	NW	NE	27	17S	34E	635994.0	3631205.0 *		

\* UTM location was derived from PLSS - see Help

**Driller License:**      **Driller Company:**

**Driller Name:**

**Drill Start Date:**      **Drill Finish Date:**      **Plug Date:**

**Log File Date:**      **PCW Rcv Date:**      **Source:**      Shallow

**Pump Type:**      **Pipe Discharge Size:**      **Estimated Yield:**

**Casing Size:**      **Depth Well:**      **Depth Water:**

### Meter Information

**Meter Number:**      19963      **Meter Make:**      FOXBORO

**Meter Serial Number:**      15042412      **Meter Multiplier:**      1.0000

**Number of Dials:**      9      **Meter Type:**      Diversion

**Unit of Measure:**      Gallons      **Reading Frequency:**      Quarterly

### Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount	Online
2019-01-31	2019	204796000.000	A	dd		0.000	
2019-03-31	2019	207931000.000	A	dd		9.621	
2019-12-31	2019	253136000.000	A	dd		138.729	
2020-07-01	2020	18357000.000	A	dd	CHANGEOUT	0.000	
2020-10-01	2020	23314000.000	A	dd		15.212	
2020-12-31	2020	30194000.000	A	dd		21.114	
2021-03-31	2021	32076000.000	A	dd		5.776	
2021-07-01	2021	34641000.000	A	dd		7.872	
2021-10-01	2021	34767000.000	A	dd		0.387	

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount	Online
2021-12-31	2021	35303000.000	A	dd	BROKEN METER	1.645	

**YTD Meter Amounts:**

Year	Amount
2019	148.350
2020	36.326
2021	15.680

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## Point of Diversion Summary

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

NAD83 UTM in meters

Well Tag	POD Nbr	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map
L 01696 S3	NE	SE	SW	30	17S	34E	630986.0	3630111.0 *		

\* UTM location was derived from PLSS - see Help

**Driller License:** 46      **Driller Company:** ABBOTT BROTHERS COMPANY

**Driller Name:** MURRELL ABBOTT

**Drill Start Date:** 1991-02-11      **Drill Finish Date:** 1991-02-21      **Plug Date:**

**Log File Date:** 1991-03-08      **PCW Rcv Date:** 1991-03-22      **Source:** Shallow

**Pump Type:** SUBMER      **Pipe Discharge Size:** 4      **Estimated Yield:**

**Casing Size:** 14.00      **Depth Well:** 232      **Depth Water:** 168

### Water Bearing Stratifications:

Top	Bottom	Description
168	230	Sandstone/Gravel/Conglomerate

### Casing Perforations:

Top	Bottom
153	232

### Meter Information

**Meter Number:** 19965      **Meter Make:** FOXBORO

**Meter Serial Number:** 17170846      **Meter Multiplier:** 1.0000

**Number of Dials:** 9      **Meter Type:** Diversion

**Unit of Measure:** Gallons      **Reading Frequency:** Quarterly

### Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount	Online
2019-01-01	2019	93204000.000	A	dd		0.000	

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount	Online
2019-03-31	2019	103178000.000	A	dd		30.609	
2019-07-01	2019	113129000.000	A	dd		30.538	
2020-07-01	2020	161556000.000	A	dd		148.617	
2020-10-01	2020	164872000.000	A	dd		10.176	
2020-12-31	2020	165801000.000	A	dd		2.851	
2021-03-31	2021	170579000.000	A	dd		14.663	
2021-07-01	2021	171902000.000	A	dd		4.060	
2021-10-01	2021	171902000.000	A	dd		0.000	
2021-12-31	2021	176102000.000	A	dd		12.889	
2022-03-31	2022	179688000.000	A	dd		11.005	
2022-07-01	2022	180197000.000	A	dd		1.562	
2022-12-31	2022	180521500.000	A	dd		0.996	

**YTD Meter Amounts:**

Year	Amount
2019	61.147
2020	161.644
2021	31.612
2022	13.563

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## Point of Diversion Summary

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

NAD83 UTM in meters

Well Tag	POD Nbr	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map
L 01697	POD2	SE	SE	SW	30	17S	34E	630986.0	3629911.0 *	

\* UTM location was derived from PLSS - see Help

**Driller License:** 46      **Driller Company:** ABBOTT BROTHERS COMPANY

**Driller Name:** READ WALTMAN

**Drill Start Date:**                      **Drill Finish Date:**                      **Plug Date:**

**Log File Date:** 1959-02-04      **PCW Rcv Date:** 1953-10-19                      **Source:** Shallow

**Pump Type:** TURBIN                      **Pipe Discharge Size:**                      **Estimated Yield:** 580

**Casing Size:** 13.38                      **Depth Well:** 240                      **Depth Water:** 140

### Water Bearing Stratifications:

Top	Bottom	Description
135	195	Shallow Alluvium/Basin Fill
200	225	Sandstone/Gravel/Conglomerate

### Casing Perforations:

Top	Bottom
127	227

### Meter Information

<b>Meter Number:</b> 19967	<b>Meter Make:</b> FOXBORO
<b>Meter Serial Number:</b> 15042415	<b>Meter Multiplier:</b> 1.0000
<b>Number of Dials:</b> 9	<b>Meter Type:</b> Diversion
<b>Unit of Measure:</b> Gallons	<b>Reading Frequency:</b> Quarterly

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount	Online
2019-01-01	2019	138080000.000	A	dd		0.000	
2019-03-31	2019	148133000.000	A	dd		30.852	
2019-07-01	2019	0.000	A	dd		0.000	
2019-09-30	2019	5530000.000	A	dd		16.971	
2019-12-31	2019	5969000.000	A	dd		1.347	
2020-10-01	2020	14080400.000	A	dd		24.893	
2020-12-31	2020	27055787.000	A	dd		39.820	
2021-03-31	2021	38404587.000	A	dd		34.828	
2021-06-01	2021	0.000	A	dd		0.000	
2021-07-01	2021	6358100.000	A	dd		19.512	
2021-10-01	2021	13655100.000	A	dd		22.394	
2021-12-31	2021	26630487.000	A	dd		39.820	
2022-03-31	2022	37979287.000	A	dd		34.828	
2022-09-27	2022	40196887.000	A	dd		6.806	

**YTD Meter Amounts:**

Year	Amount
2019	49.170
2020	64.713
2021	116.554
2022	41.634

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

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## Point of Diversion Summary

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

NAD83 UTM in meters

Well Tag	POD Nbr	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map
L 03398			NE	NE	28	17S	34E	634888.0	3631285.0 *	

\* UTM location was derived from PLSS - see Help

<b>Driller License:</b> 46	<b>Driller Company:</b> ABBOTT BROTHERS COMPANY	
<b>Driller Name:</b> ABBOTT, MURRELL		
<b>Drill Start Date:</b> 1957-11-13	<b>Drill Finish Date:</b> 1957-11-24	<b>Plug Date:</b>
<b>Log File Date:</b> 1957-12-30	<b>PCW Rcv Date:</b>	<b>Source:</b> Shallow
<b>Pump Type:</b>	<b>Pipe Discharge Size:</b>	<b>Estimated Yield:</b>
<b>Casing Size:</b> 14.00	<b>Depth Well:</b> 242	<b>Depth Water:</b> 125

### Water Bearing Stratifications:

Top	Bottom	Description
125	242	Shallow Alluvium/Basin Fill

### Casing Perforations:

Top	Bottom
125	242

### Meter Information

<b>Meter Number:</b> 19960	<b>Meter Make:</b> FOXBORO
<b>Meter Serial Number:</b> 15042434	<b>Meter Multiplier:</b> 1.0000
<b>Number of Dials:</b> 9	<b>Meter Type:</b> Diversion
<b>Unit of Measure:</b> Gallons	<b>Reading Frequency:</b> Quarterly

### Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount	Online
2019-02-28	2019	22624000.000	A	dd		0.000	

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount	Online
2019-03-31	2019	27919000.000	A	dd		16.250	
2019-12-31	2019	27919000.000	A	dd		0.000	
2020-10-01	2020	27919000.000	A	dd		0.000	
2020-12-31	2020	27919000.000	A	dd		0.000	
2021-03-31	2021	27919000.000	A	dd		0.000	
2021-07-01	2021	27919000.000	A	dd		0.000	
2021-10-01	2021	27919000.000	A	dd		0.000	
2021-12-31	2021	27919000.000	A	dd		0.000	
2022-03-31	2022	44942000.000	A	dd		52.242	
2022-07-01	2022	53590000.000	A	dd		26.540	
2022-12-31	2022	82014000.000	A	dd		87.230	

**YTD Meter Amounts:**

Year	Amount
2019	16.250
2020	0.000
2021	0.000
2022	166.012

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

4/4/25 2:04 PM MST

Point of Diversion Summary

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## Point of Diversion Summary

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

NAD83 UTM in meters

Well Tag	POD Nbr	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map
L 03795		NW	NW	26	17S	34E	636901.0	3631321.0 *		

\* UTM location was derived from PLSS - see Help

<b>Driller License:</b> 46	<b>Driller Company:</b> ABBOTT BROTHERS COMPANY	
<b>Driller Name:</b> MURRELL ABBOTT		
<b>Drill Start Date:</b> 1961-03-23	<b>Drill Finish Date:</b> 1961-03-28	<b>Plug Date:</b>
<b>Log File Date:</b> 1961-03-31	<b>PCW Rcv Date:</b> 1961-08-15	<b>Source:</b> Shallow
<b>Pump Type:</b> TURBIN	<b>Pipe Discharge Size:</b>	<b>Estimated Yield:</b>
<b>Casing Size:</b> 14.00	<b>Depth Well:</b> 230	<b>Depth Water:</b> 100

### Water Bearing Stratifications:

Top	Bottom	Description
105	224	Other/Unknown

### Casing Perforations:

Top	Bottom
110	224

### Meter Information

<b>Meter Number:</b> 19961	<b>Meter Make:</b> FOXBORO
<b>Meter Serial Number:</b> 1965830	<b>Meter Multiplier:</b> 1.0000
<b>Number of Dials:</b> 9	<b>Meter Type:</b> Diversion
<b>Unit of Measure:</b> Gallons	<b>Reading Frequency:</b> Quarterly

### Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount	Online
2019-01-31	2019	267600000.000	A	dd		0.000	

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount	Online
2019-03-31	2019	292597000.000	A	dd		76.713	
2019-07-02	2019	317344000.000	A	dd		75.946	
2019-12-31	2019	336980000.000	A	dd		60.261	
2020-07-02	2020	360516000.000	A	dd		72.229	
2020-10-01	2020	366626000.000	A	dd		18.751	
2020-12-31	2020	375695000.000	A	dd		27.832	
2021-03-31	2021	389768000.000	A	dd		43.188	
2021-07-01	2021	394282000.000	A	dd		13.853	
2021-10-01	2021	402689000.000	A	dd		25.800	
2021-12-31	2021	419980000.000	A	dd		53.064	
2022-03-31	2022	438229000.000	A	dd		56.004	
2022-07-01	2022	446087000.000	A	dd		24.115	
2022-12-31	2022	472754000.000	A	dd		81.838	

**YTD Meter Amounts:**

Year	Amount
2019	212.920
2020	118.812
2021	135.905
2022	161.957

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

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Point of Diversion Summary

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## Appendix C: Laboratory Report and Chain-of-Custody Documentation



Environment Testing

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# ANALYTICAL REPORT

## PREPARED FOR

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

Generated 5/16/2025 3:33:19 PM Revision 1

## JOB DESCRIPTION

Hale State #4  
 Lea Co, NM

## JOB NUMBER

880-58051-1

Eurofins Midland  
 1211 W. Florida Ave  
 Midland TX 79701



# Eurofins Midland

## Job Notes

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

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

## Authorization



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Revision 1

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

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Client: Crain Environmental  
Project/Site: Hale State #4

Laboratory Job ID: 880-58051-1  
SDG: Lea Co, NM

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## Definitions/Glossary

Client: Crain Environmental  
Project/Site: Hale State #4

Job ID: 880-58051-1  
SDG: Lea Co, NM

## Qualifiers

## GC VOA

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

## GC Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

## HPLC/IC

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

## Glossary

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

Eurofins Midland

## Case Narrative

Client: Crain Environmental  
Project: Hale State #4

Job ID: 880-58051-1

**Job ID: 880-58051-1**

**Eurofins Midland**

### Job Narrative 880-58051-1

#### REVISION

The report being provided is a revision of the original report sent on 5/16/2025. The report (revision 1) is being revised due to Per client email, requesting sample ID correction.

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 5/13/2025 11:11 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -0.2°C.

#### **GC VOA**

Method 8021B: The matrix spike (MS) recoveries for preparation batch 880-110055 and analytical batch 880-110086 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-110086 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:(CCV 880-110086/51).

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-110130 and analytical batch 880-110186 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (MB 880-110130/5-A). 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 analytical batch 880-110186 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: (CCV 880-110184/33) and (CCV 880-110184/51). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

#### **Diesel Range Organics**

Method 8015MOD\_NM: The method blank for preparation batch 880-110070 and analytical batch 880-110100 contained Gasoline Range Organics (GRO)-C6-C10 above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD\_NM: The surrogate recovery for the blank associated with preparation batch 880-110069 and analytical batch 880-110094 was outside the upper control limits.

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: TH-4 (1') (880-58051-9) and (890-8144-A-48-E MS). Evidence of matrix interferences is not obvious.

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# Case Narrative

Client: Crain Environmental  
Project: Hale State #4

Job ID: 880-58051-1

## Job ID: 880-58051-1 (Continued)

**Eurofins Midland**

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: TH-1 (1') (880-58051-1), TH-1 (4') (880-58051-4), TH-2 (1') (880-58051-5), TH-3 (1') (880-58051-7) and TH-6 (2') (880-58051-14). Evidence of matrix interferences is not obvious.

Method 8015MOD\_NM: The method blank for preparation batch 880-110069 and analytical batch 880-110094 contained Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

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

### HPLC/IC

Method 300\_ORGFM\_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-110106 and analytical batch 880-110108 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 300\_ORGFM\_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-110117 and analytical batch 880-110129 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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



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## Client Sample Results

Client: Crain Environmental  
Project/Site: Hale State #4Job ID: 880-58051-1  
SDG: Lea Co, NM

Client Sample ID: TH-1 (1')

Lab Sample ID: 880-58051-1

Date Collected: 05/09/25 09:40

Matrix: Solid

Date Received: 05/13/25 11:11

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		05/13/25 12:39	05/15/25 00:32	1
Toluene	<0.00200	U F1	0.00200	0.00200	mg/Kg		05/13/25 12:39	05/15/25 00:32	1
Ethylbenzene	<0.00109	U F1	0.00200	0.00109	mg/Kg		05/13/25 12:39	05/15/25 00:32	1
m-Xylene & p-Xylene	<0.00228	U F1	0.00399	0.00228	mg/Kg		05/13/25 12:39	05/15/25 00:32	1
o-Xylene	<0.00158	U F1	0.00200	0.00158	mg/Kg		05/13/25 12:39	05/15/25 00:32	1
Xylenes, Total	<0.00228	U F1	0.00399	0.00228	mg/Kg		05/13/25 12:39	05/15/25 00:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	05/13/25 12:39	05/15/25 00:32	1
1,4-Difluorobenzene (Surr)	98		70 - 130	05/13/25 12:39	05/15/25 00:32	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00399	0.00228	mg/Kg			05/15/25 00:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	50.0	15.1	mg/Kg			05/15/25 02:02	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	<14.5	U	50.0	14.5	mg/Kg		05/13/25 14:52	05/15/25 02:02	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		05/13/25 14:52	05/15/25 02:02	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		05/13/25 14:52	05/15/25 02:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	129		70 - 130	05/13/25 14:52	05/15/25 02:02	1
o-Terphenyl	132	S1+	70 - 130	05/13/25 14:52	05/15/25 02:02	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18400		202	7.98	mg/Kg			05/14/25 11:45	20

Client Sample ID: TH-1 (2')

Lab Sample ID: 880-58051-2

Date Collected: 05/09/25 09:42

Matrix: Solid

Date Received: 05/13/25 11:11

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00134	U	0.00192	0.00134	mg/Kg		05/13/25 12:39	05/15/25 00:53	1
Toluene	<0.00192	U	0.00192	0.00192	mg/Kg		05/13/25 12:39	05/15/25 00:53	1
Ethylbenzene	<0.00105	U	0.00192	0.00105	mg/Kg		05/13/25 12:39	05/15/25 00:53	1
m-Xylene & p-Xylene	<0.00219	U	0.00384	0.00219	mg/Kg		05/13/25 12:39	05/15/25 00:53	1
o-Xylene	<0.00152	U	0.00192	0.00152	mg/Kg		05/13/25 12:39	05/15/25 00:53	1
Xylenes, Total	<0.00219	U	0.00384	0.00219	mg/Kg		05/13/25 12:39	05/15/25 00:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	05/13/25 12:39	05/15/25 00:53	1
1,4-Difluorobenzene (Surr)	97		70 - 130	05/13/25 12:39	05/15/25 00:53	1

Eurofins Midland

### Client Sample Results

Client: Crain Environmental  
 Project/Site: Hale State #4

Job ID: 880-58051-1  
 SDG: Lea Co, NM

**Client Sample ID: TH-1 (2')**

**Lab Sample ID: 880-58051-2**

Date Collected: 05/09/25 09:42

Matrix: Solid

Date Received: 05/13/25 11:11

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00219	U	0.00384	0.00219	mg/Kg			05/15/25 00:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	49.7	15.0	mg/Kg			05/15/25 02:17	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	<14.4	U	49.7	14.4	mg/Kg		05/13/25 14:52	05/15/25 02:17	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.7	15.0	mg/Kg		05/13/25 14:52	05/15/25 02:17	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.7	15.0	mg/Kg		05/13/25 14:52	05/15/25 02:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	128		70 - 130	05/13/25 14:52	05/15/25 02:17	1
o-Terphenyl	130		70 - 130	05/13/25 14:52	05/15/25 02:17	1

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4010		49.8	1.97	mg/Kg			05/14/25 11:50	5

**Client Sample ID: TH-1 (3')**

**Lab Sample ID: 880-58051-3**

Date Collected: 05/09/25 09:45

Matrix: Solid

Date Received: 05/13/25 11:11

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00138	U	0.00199	0.00138	mg/Kg		05/13/25 12:39	05/15/25 01:13	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		05/13/25 12:39	05/15/25 01:13	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		05/13/25 12:39	05/15/25 01:13	1
m-Xylene & p-Xylene	<0.00227	U	0.00398	0.00227	mg/Kg		05/13/25 12:39	05/15/25 01:13	1
o-Xylene	<0.00157	U	0.00199	0.00157	mg/Kg		05/13/25 12:39	05/15/25 01:13	1
Xylenes, Total	<0.00227	U	0.00398	0.00227	mg/Kg		05/13/25 12:39	05/15/25 01:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	05/13/25 12:39	05/15/25 01:13	1
1,4-Difluorobenzene (Surr)	101		70 - 130	05/13/25 12:39	05/15/25 01:13	1

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00227	U	0.00398	0.00227	mg/Kg			05/15/25 01:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	49.9	15.1	mg/Kg			05/15/25 02:32	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	<14.5	U	49.9	14.5	mg/Kg		05/13/25 14:52	05/15/25 02:32	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.9	15.1	mg/Kg		05/13/25 14:52	05/15/25 02:32	1

Eurofins Midland

## Client Sample Results

Client: Crain Environmental  
Project/Site: Hale State #4Job ID: 880-58051-1  
SDG: Lea Co, NM

Client Sample ID: TH-1 (3')

Lab Sample ID: 880-58051-3

Date Collected: 05/09/25 09:45

Matrix: Solid

Date Received: 05/13/25 11:11

## 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)	<15.1	U	49.9	15.1	mg/Kg		05/13/25 14:52	05/15/25 02:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	123		70 - 130				05/13/25 14:52	05/15/25 02:32	1
o-Terphenyl	126		70 - 130				05/13/25 14:52	05/15/25 02:32	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6310		99.8	3.94	mg/Kg			05/14/25 11:55	10

Client Sample ID: TH-1 (4')

Lab Sample ID: 880-58051-4

Date Collected: 05/09/25 09:50

Matrix: Solid

Date Received: 05/13/25 11:11

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00122	U	0.00175	0.00122	mg/Kg		05/13/25 12:39	05/15/25 01:34	1
Toluene	<0.00175	U	0.00175	0.00175	mg/Kg		05/13/25 12:39	05/15/25 01:34	1
Ethylbenzene	<0.000952	U	0.00175	0.000952	mg/Kg		05/13/25 12:39	05/15/25 01:34	1
m-Xylene & p-Xylene	<0.00200	U	0.00350	0.00200	mg/Kg		05/13/25 12:39	05/15/25 01:34	1
o-Xylene	<0.00138	U	0.00175	0.00138	mg/Kg		05/13/25 12:39	05/15/25 01:34	1
Xylenes, Total	<0.00200	U	0.00350	0.00200	mg/Kg		05/13/25 12:39	05/15/25 01:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				05/13/25 12:39	05/15/25 01:34	1
1,4-Difluorobenzene (Surr)	107		70 - 130				05/13/25 12:39	05/15/25 01:34	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00350	0.00200	mg/Kg			05/15/25 01:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	49.8	15.1	mg/Kg			05/15/25 02:47	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	<14.5	U	49.8	14.5	mg/Kg		05/13/25 14:52	05/15/25 02:47	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.8	15.1	mg/Kg		05/13/25 14:52	05/15/25 02:47	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		05/13/25 14:52	05/15/25 02:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	130		70 - 130				05/13/25 14:52	05/15/25 02:47	1
o-Terphenyl	132	S1+	70 - 130				05/13/25 14:52	05/15/25 02:47	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6100		101	3.98	mg/Kg			05/14/25 12:00	10

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## Client Sample Results

Client: Crain Environmental  
Project/Site: Hale State #4Job ID: 880-58051-1  
SDG: Lea Co, NM

Client Sample ID: TH-2 (1')

Lab Sample ID: 880-58051-5

Date Collected: 05/09/25 10:50

Matrix: Solid

Date Received: 05/13/25 11:11

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00138	U	0.00199	0.00138	mg/Kg		05/13/25 12:39	05/15/25 01:54	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		05/13/25 12:39	05/15/25 01:54	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		05/13/25 12:39	05/15/25 01:54	1
m-Xylene & p-Xylene	<0.00227	U	0.00398	0.00227	mg/Kg		05/13/25 12:39	05/15/25 01:54	1
o-Xylene	<0.00157	U	0.00199	0.00157	mg/Kg		05/13/25 12:39	05/15/25 01:54	1
Xylenes, Total	<0.00227	U	0.00398	0.00227	mg/Kg		05/13/25 12:39	05/15/25 01:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130	05/13/25 12:39	05/15/25 01:54	1
1,4-Difluorobenzene (Surr)	95		70 - 130	05/13/25 12:39	05/15/25 01:54	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00227	U	0.00398	0.00227	mg/Kg			05/15/25 01:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	49.6	15.0	mg/Kg			05/15/25 03:02	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	<14.4	U	49.6	14.4	mg/Kg		05/13/25 14:52	05/15/25 03:02	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.6	15.0	mg/Kg		05/13/25 14:52	05/15/25 03:02	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.6	15.0	mg/Kg		05/13/25 14:52	05/15/25 03:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	129		70 - 130	05/13/25 14:52	05/15/25 03:02	1
o-Terphenyl	131	S1+	70 - 130	05/13/25 14:52	05/15/25 03:02	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	120		9.94	0.393	mg/Kg			05/14/25 12:16	1

Client Sample ID: TH-2 (4')

Lab Sample ID: 880-58051-6

Date Collected: 05/09/25 10:55

Matrix: Solid

Date Received: 05/13/25 11:11

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00138	U	0.00198	0.00138	mg/Kg		05/13/25 12:39	05/15/25 02:15	1
Toluene	<0.00198	U	0.00198	0.00198	mg/Kg		05/13/25 12:39	05/15/25 02:15	1
Ethylbenzene	<0.00108	U	0.00198	0.00108	mg/Kg		05/13/25 12:39	05/15/25 02:15	1
m-Xylene & p-Xylene	<0.00227	U	0.00397	0.00227	mg/Kg		05/13/25 12:39	05/15/25 02:15	1
o-Xylene	<0.00157	U	0.00198	0.00157	mg/Kg		05/13/25 12:39	05/15/25 02:15	1
Xylenes, Total	<0.00227	U	0.00397	0.00227	mg/Kg		05/13/25 12:39	05/15/25 02:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	75		70 - 130	05/13/25 12:39	05/15/25 02:15	1
1,4-Difluorobenzene (Surr)	85		70 - 130	05/13/25 12:39	05/15/25 02:15	1

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### Client Sample Results

Client: Crain Environmental  
 Project/Site: Hale State #4

Job ID: 880-58051-1  
 SDG: Lea Co, NM

**Client Sample ID: TH-2 (4')**

**Lab Sample ID: 880-58051-6**

Date Collected: 05/09/25 10:55

Matrix: Solid

Date Received: 05/13/25 11:11

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00227	U	0.00397	0.00227	mg/Kg			05/15/25 02:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.2	U	50.3	15.2	mg/Kg			05/15/25 03:17	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	<14.6	U	50.3	14.6	mg/Kg		05/13/25 14:52	05/15/25 03:17	1
Diesel Range Organics (Over C10-C28)	<15.2	U	50.3	15.2	mg/Kg		05/13/25 14:52	05/15/25 03:17	1
Oil Range Organics (Over C28-C36)	<15.2	U	50.3	15.2	mg/Kg		05/13/25 14:52	05/15/25 03:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130	05/13/25 14:52	05/15/25 03:17	1
o-Terphenyl	122		70 - 130	05/13/25 14:52	05/15/25 03:17	1

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	106		9.92	0.392	mg/Kg			05/14/25 12:21	1

**Client Sample ID: TH-3 (1')**

**Lab Sample ID: 880-58051-7**

Date Collected: 05/09/25 11:10

Matrix: Solid

Date Received: 05/13/25 11:11

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00140	U	0.00201	0.00140	mg/Kg		05/13/25 12:39	05/15/25 02:35	1
Toluene	<0.00201	U	0.00201	0.00201	mg/Kg		05/13/25 12:39	05/15/25 02:35	1
Ethylbenzene	<0.00109	U	0.00201	0.00109	mg/Kg		05/13/25 12:39	05/15/25 02:35	1
m-Xylene & p-Xylene	<0.00229	U	0.00402	0.00229	mg/Kg		05/13/25 12:39	05/15/25 02:35	1
o-Xylene	<0.00159	U	0.00201	0.00159	mg/Kg		05/13/25 12:39	05/15/25 02:35	1
Xylenes, Total	<0.00229	U	0.00402	0.00229	mg/Kg		05/13/25 12:39	05/15/25 02:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	05/13/25 12:39	05/15/25 02:35	1
1,4-Difluorobenzene (Surr)	98		70 - 130	05/13/25 12:39	05/15/25 02:35	1

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00402	0.00229	mg/Kg			05/15/25 02:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	19.6	J	50.2	15.2	mg/Kg			05/15/25 03:34	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	<14.6	U	50.2	14.6	mg/Kg		05/13/25 14:52	05/15/25 03:34	1
Diesel Range Organics (Over C10-C28)	19.6	J B	50.2	15.2	mg/Kg		05/13/25 14:52	05/15/25 03:34	1

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### Client Sample Results

Client: Crain Environmental  
 Project/Site: Hale State #4

Job ID: 880-58051-1  
 SDG: Lea Co, NM

**Client Sample ID: TH-3 (1')**

**Lab Sample ID: 880-58051-7**

Date Collected: 05/09/25 11:10

Matrix: Solid

Date Received: 05/13/25 11:11

**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)	<15.2	U	50.2	15.2	mg/Kg		05/13/25 14:52	05/15/25 03:34	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1-Chlorooctane	130		70 - 130				05/13/25 14:52	05/15/25 03:34	1
o-Terphenyl	133	S1+	70 - 130				05/13/25 14:52	05/15/25 03:34	1

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	110		10.0	0.396	mg/Kg			05/14/25 12:26	1

**Client Sample ID: TH-3 (4')**

**Lab Sample ID: 880-58051-8**

Date Collected: 05/09/25 11:20

Matrix: Solid

Date Received: 05/13/25 11:11

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00138	U	0.00198	0.00138	mg/Kg		05/13/25 12:39	05/15/25 02:56	1
Toluene	<0.00198	U	0.00198	0.00198	mg/Kg		05/13/25 12:39	05/15/25 02:56	1
Ethylbenzene	<0.00108	U	0.00198	0.00108	mg/Kg		05/13/25 12:39	05/15/25 02:56	1
m-Xylene & p-Xylene	<0.00226	U	0.00396	0.00226	mg/Kg		05/13/25 12:39	05/15/25 02:56	1
o-Xylene	<0.00157	U	0.00198	0.00157	mg/Kg		05/13/25 12:39	05/15/25 02:56	1
Xylenes, Total	<0.00226	U	0.00396	0.00226	mg/Kg		05/13/25 12:39	05/15/25 02:56	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	101		70 - 130				05/13/25 12:39	05/15/25 02:56	1
1,4-Difluorobenzene (Surr)	103		70 - 130				05/13/25 12:39	05/15/25 02:56	1

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00226	U	0.00396	0.00226	mg/Kg			05/15/25 02:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	50.0	15.1	mg/Kg			05/15/25 03:49	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	<14.5	U	50.0	14.5	mg/Kg		05/13/25 14:52	05/15/25 03:49	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		05/13/25 14:52	05/15/25 03:49	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		05/13/25 14:52	05/15/25 03:49	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1-Chlorooctane	123		70 - 130				05/13/25 14:52	05/15/25 03:49	1
o-Terphenyl	124		70 - 130				05/13/25 14:52	05/15/25 03:49	1

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	98.1		9.98	0.394	mg/Kg			05/14/25 12:32	1

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## Client Sample Results

Client: Crain Environmental  
Project/Site: Hale State #4Job ID: 880-58051-1  
SDG: Lea Co, NM

Client Sample ID: TH-4 (1')

Lab Sample ID: 880-58051-9

Date Collected: 05/09/25 13:15

Matrix: Solid

Date Received: 05/13/25 11:11

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00199	0.00139	mg/Kg		05/13/25 12:39	05/15/25 03:17	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		05/13/25 12:39	05/15/25 03:17	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		05/13/25 12:39	05/15/25 03:17	1
m-Xylene & p-Xylene	<0.00228	U	0.00398	0.00228	mg/Kg		05/13/25 12:39	05/15/25 03:17	1
o-Xylene	<0.00158	U	0.00199	0.00158	mg/Kg		05/13/25 12:39	05/15/25 03:17	1
Xylenes, Total	<0.00228	U	0.00398	0.00228	mg/Kg		05/13/25 12:39	05/15/25 03:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	05/13/25 12:39	05/15/25 03:17	1
1,4-Difluorobenzene (Surr)	98		70 - 130	05/13/25 12:39	05/15/25 03:17	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00398	0.00228	mg/Kg			05/15/25 03:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	50.0	15.1	mg/Kg			05/15/25 04:03	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	<14.5	U	50.0	14.5	mg/Kg		05/13/25 14:52	05/15/25 04:03	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		05/13/25 14:52	05/15/25 04:03	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		05/13/25 14:52	05/15/25 04:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	131	S1+	70 - 130	05/13/25 14:52	05/15/25 04:03	1
o-Terphenyl	132	S1+	70 - 130	05/13/25 14:52	05/15/25 04:03	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	117		9.96	0.393	mg/Kg			05/14/25 12:37	1

Client Sample ID: TH-4 (4')

Lab Sample ID: 880-58051-10

Date Collected: 05/09/25 13:20

Matrix: Solid

Date Received: 05/13/25 11:11

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		05/13/25 12:39	05/15/25 03:37	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		05/13/25 12:39	05/15/25 03:37	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		05/13/25 12:39	05/15/25 03:37	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		05/13/25 12:39	05/15/25 03:37	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		05/13/25 12:39	05/15/25 03:37	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg		05/13/25 12:39	05/15/25 03:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130	05/13/25 12:39	05/15/25 03:37	1
1,4-Difluorobenzene (Surr)	81		70 - 130	05/13/25 12:39	05/15/25 03:37	1

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### Client Sample Results

Client: Crain Environmental  
 Project/Site: Hale State #4

Job ID: 880-58051-1  
 SDG: Lea Co, NM

**Client Sample ID: TH-4 (4')**

**Lab Sample ID: 880-58051-10**

Date Collected: 05/09/25 13:20

Matrix: Solid

Date Received: 05/13/25 11:11

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00399	0.00228	mg/Kg			05/15/25 03:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	50.1	15.1	mg/Kg			05/15/25 04:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.1	14.5	mg/Kg		05/13/25 14:52	05/15/25 04:33	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.1	15.1	mg/Kg		05/13/25 14:52	05/15/25 04:33	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.1	15.1	mg/Kg		05/13/25 14:52	05/15/25 04:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130	05/13/25 14:52	05/15/25 04:33	1
o-Terphenyl	115		70 - 130	05/13/25 14:52	05/15/25 04:33	1

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	82.9	F1	10.1	0.399	mg/Kg			05/14/25 12:42	1

**Client Sample ID: TH-5 (1')**

**Lab Sample ID: 880-58051-11**

Date Collected: 05/09/25 15:25

Matrix: Solid

Date Received: 05/13/25 11:11

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00199	0.00139	mg/Kg		05/13/25 12:39	05/15/25 05:11	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		05/13/25 12:39	05/15/25 05:11	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		05/13/25 12:39	05/15/25 05:11	1
m-Xylene & p-Xylene	<0.00228	U	0.00398	0.00228	mg/Kg		05/13/25 12:39	05/15/25 05:11	1
o-Xylene	<0.00158	U	0.00199	0.00158	mg/Kg		05/13/25 12:39	05/15/25 05:11	1
Xylenes, Total	<0.00228	U	0.00398	0.00228	mg/Kg		05/13/25 12:39	05/15/25 05:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	05/13/25 12:39	05/15/25 05:11	1
1,4-Difluorobenzene (Surr)	104		70 - 130	05/13/25 12:39	05/15/25 05:11	1

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00398	0.00228	mg/Kg			05/15/25 05:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	17.8	J	49.7	15.0	mg/Kg			05/15/25 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	<14.4	U	49.7	14.4	mg/Kg		05/13/25 14:52	05/15/25 04:48	1
Diesel Range Organics (Over C10-C28)	17.8	J B	49.7	15.0	mg/Kg		05/13/25 14:52	05/15/25 04:48	1

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## Client Sample Results

Client: Crain Environmental  
Project/Site: Hale State #4Job ID: 880-58051-1  
SDG: Lea Co, NM

Client Sample ID: TH-5 (1')

Lab Sample ID: 880-58051-11

Date Collected: 05/09/25 15:25

Matrix: Solid

Date Received: 05/13/25 11:11

## 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)	<15.0	U	49.7	15.0	mg/Kg		05/13/25 14:52	05/15/25 04:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130	05/13/25 14:52	05/15/25 04:48	1
o-Terphenyl	117		70 - 130	05/13/25 14:52	05/15/25 04:48	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	526		9.96	0.393	mg/Kg			05/14/25 12:57	1

Client Sample ID: TH-5 (4')

Lab Sample ID: 880-58051-12

Date Collected: 05/09/25 15:30

Matrix: Solid

Date Received: 05/13/25 11:11

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		05/13/25 12:39	05/15/25 05:32	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		05/13/25 12:39	05/15/25 05:32	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		05/13/25 12:39	05/15/25 05:32	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		05/13/25 12:39	05/15/25 05:32	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		05/13/25 12:39	05/15/25 05:32	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg		05/13/25 12:39	05/15/25 05:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 130	05/13/25 12:39	05/15/25 05:32	1
1,4-Difluorobenzene (Surr)	77		70 - 130	05/13/25 12:39	05/15/25 05:32	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00399	0.00228	mg/Kg			05/15/25 05:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	49.8	15.1	mg/Kg			05/15/25 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	<14.5	U	49.8	14.5	mg/Kg		05/13/25 14:52	05/15/25 05:02	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.8	15.1	mg/Kg		05/13/25 14:52	05/15/25 05:02	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		05/13/25 14:52	05/15/25 05:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	123		70 - 130	05/13/25 14:52	05/15/25 05:02	1
o-Terphenyl	123		70 - 130	05/13/25 14:52	05/15/25 05:02	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	162		9.98	0.394	mg/Kg			05/14/25 13:03	1

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## Client Sample Results

Client: Crain Environmental  
Project/Site: Hale State #4Job ID: 880-58051-1  
SDG: Lea Co, NM

Client Sample ID: TH-6 (1')

Lab Sample ID: 880-58051-13

Date Collected: 05/09/25 16:00

Matrix: Solid

Date Received: 05/13/25 11:11

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00138	U	0.00198	0.00138	mg/Kg		05/13/25 12:39	05/15/25 05:52	1
Toluene	<0.00198	U	0.00198	0.00198	mg/Kg		05/13/25 12:39	05/15/25 05:52	1
Ethylbenzene	<0.00108	U	0.00198	0.00108	mg/Kg		05/13/25 12:39	05/15/25 05:52	1
m-Xylene & p-Xylene	<0.00226	U	0.00396	0.00226	mg/Kg		05/13/25 12:39	05/15/25 05:52	1
o-Xylene	<0.00157	U	0.00198	0.00157	mg/Kg		05/13/25 12:39	05/15/25 05:52	1
Xylenes, Total	<0.00226	U	0.00396	0.00226	mg/Kg		05/13/25 12:39	05/15/25 05:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	05/13/25 12:39	05/15/25 05:52	1
1,4-Difluorobenzene (Surr)	109		70 - 130	05/13/25 12:39	05/15/25 05:52	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00226	U	0.00396	0.00226	mg/Kg			05/15/25 05:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	39.4	J	50.1	15.1	mg/Kg			05/15/25 05:18	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	<14.5	U	50.1	14.5	mg/Kg		05/13/25 14:52	05/15/25 05:18	1
Diesel Range Organics (Over C10-C28)	39.4	J B	50.1	15.1	mg/Kg		05/13/25 14:52	05/15/25 05:18	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.1	15.1	mg/Kg		05/13/25 14:52	05/15/25 05:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130	05/13/25 14:52	05/15/25 05:18	1
o-Terphenyl	115		70 - 130	05/13/25 14:52	05/15/25 05:18	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16100		202	7.96	mg/Kg			05/14/25 13:18	20

Client Sample ID: TH-6 (2')

Lab Sample ID: 880-58051-14

Date Collected: 05/09/25 16:02

Matrix: Solid

Date Received: 05/13/25 11:11

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		05/13/25 12:39	05/15/25 06:13	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		05/13/25 12:39	05/15/25 06:13	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		05/13/25 12:39	05/15/25 06:13	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		05/13/25 12:39	05/15/25 06:13	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		05/13/25 12:39	05/15/25 06:13	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg		05/13/25 12:39	05/15/25 06:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	05/13/25 12:39	05/15/25 06:13	1
1,4-Difluorobenzene (Surr)	104		70 - 130	05/13/25 12:39	05/15/25 06:13	1

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### Client Sample Results

Client: Crain Environmental  
 Project/Site: Hale State #4

Job ID: 880-58051-1  
 SDG: Lea Co, NM

**Client Sample ID: TH-6 (2')**

**Lab Sample ID: 880-58051-14**

Date Collected: 05/09/25 16:02

Matrix: Solid

Date Received: 05/13/25 11:11

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00399	0.00228	mg/Kg			05/15/25 06:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	35.1	J	50.1	15.2	mg/Kg			05/15/25 05:32	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	<14.6	U	50.1	14.6	mg/Kg		05/13/25 14:52	05/15/25 05:32	1
<b>Diesel Range Organics (Over C10-C28)</b>	<b>35.1</b>	<b>J B</b>	50.1	15.2	mg/Kg		05/13/25 14:52	05/15/25 05:32	1
Oil Range Organics (Over C28-C36)	<15.2	U	50.1	15.2	mg/Kg		05/13/25 14:52	05/15/25 05:32	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1-Chlorooctane	130		70 - 130				05/13/25 14:52	05/15/25 05:32	1
o-Terphenyl	135	S1+	70 - 130				05/13/25 14:52	05/15/25 05:32	1

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7420		99.4	3.93	mg/Kg			05/14/25 13:23	10

**Client Sample ID: TH-6 (3')**

**Lab Sample ID: 880-58051-15**

Date Collected: 05/09/25 16:03

Matrix: Solid

Date Received: 05/13/25 11:11

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		05/13/25 12:39	05/15/25 06:33	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		05/13/25 12:39	05/15/25 06:33	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		05/13/25 12:39	05/15/25 06:33	1
m-Xylene & p-Xylene	<0.00229	U	0.00401	0.00229	mg/Kg		05/13/25 12:39	05/15/25 06:33	1
o-Xylene	<0.00159	U	0.00200	0.00159	mg/Kg		05/13/25 12:39	05/15/25 06:33	1
Xylenes, Total	<0.00229	U	0.00401	0.00229	mg/Kg		05/13/25 12:39	05/15/25 06:33	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	102		70 - 130				05/13/25 12:39	05/15/25 06:33	1
1,4-Difluorobenzene (Surr)	104		70 - 130				05/13/25 12:39	05/15/25 06:33	1

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00401	0.00229	mg/Kg			05/15/25 06:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	26.5	J	50.0	15.1	mg/Kg			05/15/25 05:49	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	<14.5	U	50.0	14.5	mg/Kg		05/13/25 14:52	05/15/25 05:49	1
<b>Diesel Range Organics (Over C10-C28)</b>	<b>26.5</b>	<b>J B</b>	50.0	15.1	mg/Kg		05/13/25 14:52	05/15/25 05:49	1

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### Client Sample Results

Client: Crain Environmental  
 Project/Site: Hale State #4

Job ID: 880-58051-1  
 SDG: Lea Co, NM

**Client Sample ID: TH-6 (3')**

**Lab Sample ID: 880-58051-15**

Date Collected: 05/09/25 16:03

Matrix: Solid

Date Received: 05/13/25 11:11

**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)	<15.1	U	50.0	15.1	mg/Kg		05/13/25 14:52	05/15/25 05:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	123		70 - 130				05/13/25 14:52	05/15/25 05:49	1
o-Terphenyl	127		70 - 130				05/13/25 14:52	05/15/25 05:49	1

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	641		9.92	0.392	mg/Kg			05/14/25 13:29	1

**Client Sample ID: TH-6 (4')**

**Lab Sample ID: 880-58051-16**

Date Collected: 05/09/25 16:05

Matrix: Solid

Date Received: 05/13/25 11:11

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00138	U	0.00199	0.00138	mg/Kg		05/13/25 12:39	05/15/25 06:54	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		05/13/25 12:39	05/15/25 06:54	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		05/13/25 12:39	05/15/25 06:54	1
m-Xylene & p-Xylene	<0.00227	U	0.00398	0.00227	mg/Kg		05/13/25 12:39	05/15/25 06:54	1
o-Xylene	<0.00157	U	0.00199	0.00157	mg/Kg		05/13/25 12:39	05/15/25 06:54	1
Xylenes, Total	<0.00227	U	0.00398	0.00227	mg/Kg		05/13/25 12:39	05/15/25 06:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				05/13/25 12:39	05/15/25 06:54	1
1,4-Difluorobenzene (Surr)	101		70 - 130				05/13/25 12:39	05/15/25 06:54	1

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00227	U	0.00398	0.00227	mg/Kg			05/15/25 06:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	50.0	15.1	mg/Kg			05/15/25 06:03	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	<14.5	U	50.0	14.5	mg/Kg		05/13/25 14:52	05/15/25 06:03	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		05/13/25 14:52	05/15/25 06:03	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		05/13/25 14:52	05/15/25 06:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130				05/13/25 14:52	05/15/25 06:03	1
o-Terphenyl	129		70 - 130				05/13/25 14:52	05/15/25 06:03	1

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2980		50.2	1.98	mg/Kg			05/14/25 13:34	5

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## Client Sample Results

Client: Crain Environmental  
Project/Site: Hale State #4Job ID: 880-58051-1  
SDG: Lea Co, NM

Client Sample ID: TH-7 (1')

Lab Sample ID: 880-58051-17

Date Collected: 05/12/25 14:20

Matrix: Solid

Date Received: 05/13/25 11:11

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00199	0.00139	mg/Kg		05/13/25 12:39	05/15/25 07:14	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		05/13/25 12:39	05/15/25 07:14	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		05/13/25 12:39	05/15/25 07:14	1
m-Xylene & p-Xylene	<0.00228	U	0.00398	0.00228	mg/Kg		05/13/25 12:39	05/15/25 07:14	1
o-Xylene	<0.00158	U	0.00199	0.00158	mg/Kg		05/13/25 12:39	05/15/25 07:14	1
Xylenes, Total	<0.00228	U	0.00398	0.00228	mg/Kg		05/13/25 12:39	05/15/25 07:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	05/13/25 12:39	05/15/25 07:14	1
1,4-Difluorobenzene (Surr)	113		70 - 130	05/13/25 12:39	05/15/25 07:14	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00398	0.00228	mg/Kg			05/15/25 07:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	25.5	J	50.2	15.2	mg/Kg			05/15/25 06:19	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	<14.6	U	50.2	14.6	mg/Kg		05/13/25 14:52	05/15/25 06:19	1
Diesel Range Organics (Over C10-C28)	25.5	J B	50.2	15.2	mg/Kg		05/13/25 14:52	05/15/25 06:19	1
Oil Range Organics (Over C28-C36)	<15.2	U	50.2	15.2	mg/Kg		05/13/25 14:52	05/15/25 06:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130	05/13/25 14:52	05/15/25 06:19	1
o-Terphenyl	116		70 - 130	05/13/25 14:52	05/15/25 06:19	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11700		199	7.85	mg/Kg			05/14/25 13:39	20

Client Sample ID: TH-7 (2')

Lab Sample ID: 880-58051-18

Date Collected: 05/12/25 14:21

Matrix: Solid

Date Received: 05/13/25 11:11

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00138	U	0.00198	0.00138	mg/Kg		05/13/25 12:39	05/15/25 07:35	1
Toluene	<0.00198	U	0.00198	0.00198	mg/Kg		05/13/25 12:39	05/15/25 07:35	1
Ethylbenzene	<0.00108	U	0.00198	0.00108	mg/Kg		05/13/25 12:39	05/15/25 07:35	1
m-Xylene & p-Xylene	<0.00226	U	0.00396	0.00226	mg/Kg		05/13/25 12:39	05/15/25 07:35	1
o-Xylene	<0.00157	U	0.00198	0.00157	mg/Kg		05/13/25 12:39	05/15/25 07:35	1
Xylenes, Total	<0.00226	U	0.00396	0.00226	mg/Kg		05/13/25 12:39	05/15/25 07:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	05/13/25 12:39	05/15/25 07:35	1
1,4-Difluorobenzene (Surr)	107		70 - 130	05/13/25 12:39	05/15/25 07:35	1

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### Client Sample Results

Client: Crain Environmental  
 Project/Site: Hale State #4

Job ID: 880-58051-1  
 SDG: Lea Co, NM

**Client Sample ID: TH-7 (2')**

**Lab Sample ID: 880-58051-18**

Date Collected: 05/12/25 14:21

Matrix: Solid

Date Received: 05/13/25 11:11

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00226	U	0.00396	0.00226	mg/Kg			05/15/25 07:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.3	U	50.4	15.3	mg/Kg			05/15/25 06:34	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	<14.6	U	50.4	14.6	mg/Kg		05/13/25 14:52	05/15/25 06:34	1
Diesel Range Organics (Over C10-C28)	<15.3	U	50.4	15.3	mg/Kg		05/13/25 14:52	05/15/25 06:34	1
Oil Range Organics (Over C28-C36)	<15.3	U	50.4	15.3	mg/Kg		05/13/25 14:52	05/15/25 06:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	123		70 - 130	05/13/25 14:52	05/15/25 06:34	1
o-Terphenyl	129		70 - 130	05/13/25 14:52	05/15/25 06:34	1

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8850		99.2	3.92	mg/Kg			05/14/25 13:44	10

**Client Sample ID: TH-7 (3')**

**Lab Sample ID: 880-58051-19**

Date Collected: 05/12/25 14:23

Matrix: Solid

Date Received: 05/13/25 11:11

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00199	0.00139	mg/Kg		05/13/25 12:39	05/15/25 07:56	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		05/13/25 12:39	05/15/25 07:56	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		05/13/25 12:39	05/15/25 07:56	1
m-Xylene & p-Xylene	<0.00228	U	0.00398	0.00228	mg/Kg		05/13/25 12:39	05/15/25 07:56	1
o-Xylene	<0.00158	U	0.00199	0.00158	mg/Kg		05/13/25 12:39	05/15/25 07:56	1
Xylenes, Total	<0.00228	U	0.00398	0.00228	mg/Kg		05/13/25 12:39	05/15/25 07:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	05/13/25 12:39	05/15/25 07:56	1
1,4-Difluorobenzene (Surr)	103		70 - 130	05/13/25 12:39	05/15/25 07:56	1

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00398	0.00228	mg/Kg			05/15/25 07:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	50.0	15.1	mg/Kg			05/14/25 10:28	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	<14.5	U	50.0	14.5	mg/Kg		05/13/25 14:57	05/14/25 10:28	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		05/13/25 14:57	05/14/25 10:28	1

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### Client Sample Results

Client: Crain Environmental  
 Project/Site: Hale State #4

Job ID: 880-58051-1  
 SDG: Lea Co, NM

**Client Sample ID: TH-7 (3')**

**Lab Sample ID: 880-58051-19**

Date Collected: 05/12/25 14:23

Matrix: Solid

Date Received: 05/13/25 11:11

**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)	<15.1	U	50.0	15.1	mg/Kg		05/13/25 14:57	05/14/25 10:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130				05/13/25 14:57	05/14/25 10:28	1
o-Terphenyl	92		70 - 130				05/13/25 14:57	05/14/25 10:28	1

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	874		10.0	0.397	mg/Kg			05/14/25 13:49	1

**Client Sample ID: TH-7 (4')**

**Lab Sample ID: 880-58051-20**

Date Collected: 05/12/25 14:25

Matrix: Solid

Date Received: 05/13/25 11:11

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00138	U	0.00198	0.00138	mg/Kg		05/13/25 12:39	05/15/25 08:16	1
Toluene	<0.00198	U	0.00198	0.00198	mg/Kg		05/13/25 12:39	05/15/25 08:16	1
Ethylbenzene	<0.00108	U	0.00198	0.00108	mg/Kg		05/13/25 12:39	05/15/25 08:16	1
m-Xylene & p-Xylene	<0.00226	U	0.00396	0.00226	mg/Kg		05/13/25 12:39	05/15/25 08:16	1
o-Xylene	<0.00157	U	0.00198	0.00157	mg/Kg		05/13/25 12:39	05/15/25 08:16	1
Xylenes, Total	<0.00226	U	0.00396	0.00226	mg/Kg		05/13/25 12:39	05/15/25 08:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130				05/13/25 12:39	05/15/25 08:16	1
1,4-Difluorobenzene (Surr)	107		70 - 130				05/13/25 12:39	05/15/25 08:16	1

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00226	U	0.00396	0.00226	mg/Kg			05/15/25 08:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	49.8	15.1	mg/Kg			05/14/25 14:02	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	<14.5	U	49.8	14.5	mg/Kg		05/13/25 14:57	05/14/25 14:02	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.8	15.1	mg/Kg		05/13/25 14:57	05/14/25 14:02	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		05/13/25 14:57	05/14/25 14:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130				05/13/25 14:57	05/14/25 14:02	1
o-Terphenyl	99		70 - 130				05/13/25 14:57	05/14/25 14:02	1

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	656	F1	10.1	0.398	mg/Kg			05/14/25 14:05	1

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## Client Sample Results

Client: Crain Environmental  
Project/Site: Hale State #4Job ID: 880-58051-1  
SDG: Lea Co, NM

Client Sample ID: TH-8 (1')

Lab Sample ID: 880-58051-21

Date Collected: 05/12/25 14:45

Matrix: Solid

Date Received: 05/13/25 11:11

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		05/15/25 18:00	05/15/25 22:34	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		05/15/25 18:00	05/15/25 22:34	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		05/15/25 18:00	05/15/25 22:34	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		05/15/25 18:00	05/15/25 22:34	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		05/15/25 18:00	05/15/25 22:34	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg		05/15/25 18:00	05/15/25 22:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	05/15/25 18:00	05/15/25 22:34	1
1,4-Difluorobenzene (Surr)	98		70 - 130	05/15/25 18:00	05/15/25 22:34	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00399	0.00228	mg/Kg			05/15/25 22:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	49.9	15.1	mg/Kg			05/14/25 14:18	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	<14.5	U	49.9	14.5	mg/Kg		05/13/25 14:57	05/14/25 14:18	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.9	15.1	mg/Kg		05/13/25 14:57	05/14/25 14:18	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		05/13/25 14:57	05/14/25 14:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130	05/13/25 14:57	05/14/25 14:18	1
o-Terphenyl	91		70 - 130	05/13/25 14:57	05/14/25 14:18	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	674		10.1	0.399	mg/Kg			05/14/25 14:27	1

Client Sample ID: TH-8 (4')

Lab Sample ID: 880-58051-22

Date Collected: 05/12/25 14:55

Matrix: Solid

Date Received: 05/13/25 11:11

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00140	U	0.00201	0.00140	mg/Kg		05/15/25 18:00	05/15/25 22:54	1
Toluene	<0.00201	U	0.00201	0.00201	mg/Kg		05/15/25 18:00	05/15/25 22:54	1
Ethylbenzene	<0.00109	U	0.00201	0.00109	mg/Kg		05/15/25 18:00	05/15/25 22:54	1
m-Xylene & p-Xylene	<0.00229	U	0.00402	0.00229	mg/Kg		05/15/25 18:00	05/15/25 22:54	1
o-Xylene	<0.00159	U	0.00201	0.00159	mg/Kg		05/15/25 18:00	05/15/25 22:54	1
Xylenes, Total	<0.00229	U	0.00402	0.00229	mg/Kg		05/15/25 18:00	05/15/25 22:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	05/15/25 18:00	05/15/25 22:54	1
1,4-Difluorobenzene (Surr)	95		70 - 130	05/15/25 18:00	05/15/25 22:54	1

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### Client Sample Results

Client: Crain Environmental  
 Project/Site: Hale State #4

Job ID: 880-58051-1  
 SDG: Lea Co, NM

**Client Sample ID: TH-8 (4')**

**Lab Sample ID: 880-58051-22**

Date Collected: 05/12/25 14:55

Matrix: Solid

Date Received: 05/13/25 11:11

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00402	0.00229	mg/Kg			05/15/25 22:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	49.7	15.0	mg/Kg			05/14/25 14:34	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	<14.4	U	49.7	14.4	mg/Kg		05/13/25 14:57	05/14/25 14:34	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.7	15.0	mg/Kg		05/13/25 14:57	05/14/25 14:34	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.7	15.0	mg/Kg		05/13/25 14:57	05/14/25 14:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130	05/13/25 14:57	05/14/25 14:34	1
o-Terphenyl	92		70 - 130	05/13/25 14:57	05/14/25 14:34	1

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	160		9.96	0.393	mg/Kg			05/14/25 14:34	1

**Client Sample ID: TH-9 (1')**

**Lab Sample ID: 880-58051-23**

Date Collected: 05/12/25 15:10

Matrix: Solid

Date Received: 05/13/25 11:11

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00138	U	0.00198	0.00138	mg/Kg		05/15/25 12:07	05/15/25 21:00	1
Toluene	<0.00198	U	0.00198	0.00198	mg/Kg		05/15/25 12:07	05/15/25 21:00	1
Ethylbenzene	<0.00108	U	0.00198	0.00108	mg/Kg		05/15/25 12:07	05/15/25 21:00	1
m-Xylene & p-Xylene	<0.00226	U	0.00396	0.00226	mg/Kg		05/15/25 12:07	05/15/25 21:00	1
o-Xylene	<0.00157	U	0.00198	0.00157	mg/Kg		05/15/25 12:07	05/15/25 21:00	1
Xylenes, Total	<0.00226	U	0.00396	0.00226	mg/Kg		05/15/25 12:07	05/15/25 21:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130	05/15/25 12:07	05/15/25 21:00	1
1,4-Difluorobenzene (Surr)	112		70 - 130	05/15/25 12:07	05/15/25 21:00	1

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00226	U	0.00396	0.00226	mg/Kg			05/15/25 21:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	49.9	15.1	mg/Kg			05/14/25 14:51	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	<14.5	U	49.9	14.5	mg/Kg		05/13/25 14:57	05/14/25 14:51	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.9	15.1	mg/Kg		05/13/25 14:57	05/14/25 14:51	1

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### Client Sample Results

Client: Crain Environmental  
 Project/Site: Hale State #4

Job ID: 880-58051-1  
 SDG: Lea Co, NM

**Client Sample ID: TH-9 (1')**

**Lab Sample ID: 880-58051-23**

Date Collected: 05/12/25 15:10

Matrix: Solid

Date Received: 05/13/25 11:11

**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)	<15.1	U	49.9	15.1	mg/Kg		05/13/25 14:57	05/14/25 14:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				05/13/25 14:57	05/14/25 14:51	1
o-Terphenyl	95		70 - 130				05/13/25 14:57	05/14/25 14:51	1

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	195		9.92	0.392	mg/Kg			05/14/25 14:41	1

**Client Sample ID: TH-9 (4')**

**Lab Sample ID: 880-58051-24**

Date Collected: 05/12/25 15:20

Matrix: Solid

Date Received: 05/13/25 11:11

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00138	U	0.00199	0.00138	mg/Kg		05/15/25 18:00	05/15/25 23:15	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		05/15/25 18:00	05/15/25 23:15	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		05/15/25 18:00	05/15/25 23:15	1
m-Xylene & p-Xylene	<0.00227	U	0.00398	0.00227	mg/Kg		05/15/25 18:00	05/15/25 23:15	1
o-Xylene	<0.00157	U	0.00199	0.00157	mg/Kg		05/15/25 18:00	05/15/25 23:15	1
Xylenes, Total	<0.00227	U	0.00398	0.00227	mg/Kg		05/15/25 18:00	05/15/25 23:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130				05/15/25 18:00	05/15/25 23:15	1
1,4-Difluorobenzene (Surr)	94		70 - 130				05/15/25 18:00	05/15/25 23:15	1

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00227	U	0.00398	0.00227	mg/Kg			05/15/25 23:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.2	U	50.1	15.2	mg/Kg			05/14/25 15:08	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	<14.6	U	50.1	14.6	mg/Kg		05/13/25 14:57	05/14/25 15:08	1
Diesel Range Organics (Over C10-C28)	<15.2	U	50.1	15.2	mg/Kg		05/13/25 14:57	05/14/25 15:08	1
Oil Range Organics (Over C28-C36)	<15.2	U	50.1	15.2	mg/Kg		05/13/25 14:57	05/14/25 15:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				05/13/25 14:57	05/14/25 15:08	1
o-Terphenyl	94		70 - 130				05/13/25 14:57	05/14/25 15:08	1

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	113		10.0	0.397	mg/Kg			05/14/25 14:48	1

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## Client Sample Results

Client: Crain Environmental  
Project/Site: Hale State #4Job ID: 880-58051-1  
SDG: Lea Co, NM

Client Sample ID: TH-10 (1')

Lab Sample ID: 880-58051-25

Date Collected: 05/12/25 15:45

Matrix: Solid

Date Received: 05/13/25 11:11

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		05/15/25 18:00	05/15/25 23:35	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		05/15/25 18:00	05/15/25 23:35	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		05/15/25 18:00	05/15/25 23:35	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		05/15/25 18:00	05/15/25 23:35	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		05/15/25 18:00	05/15/25 23:35	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg		05/15/25 18:00	05/15/25 23:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	05/15/25 18:00	05/15/25 23:35	1
1,4-Difluorobenzene (Surr)	97		70 - 130	05/15/25 18:00	05/15/25 23:35	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00399	0.00228	mg/Kg			05/15/25 23:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.2	U	50.2	15.2	mg/Kg			05/14/25 15:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.6	U	50.2	14.6	mg/Kg		05/13/25 14:57	05/14/25 15:24	1
Diesel Range Organics (Over C10-C28)	<15.2	U	50.2	15.2	mg/Kg		05/13/25 14:57	05/14/25 15:24	1
Oil Range Organics (Over C28-C36)	<15.2	U	50.2	15.2	mg/Kg		05/13/25 14:57	05/14/25 15:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130	05/13/25 14:57	05/14/25 15:24	1
o-Terphenyl	96		70 - 130	05/13/25 14:57	05/14/25 15:24	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	142		9.94	0.393	mg/Kg			05/14/25 15:09	1

Client Sample ID: TH-10 (4')

Lab Sample ID: 880-58051-26

Date Collected: 05/12/25 15:55

Matrix: Solid

Date Received: 05/13/25 11:11

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00140	U	0.00201	0.00140	mg/Kg		05/15/25 18:00	05/15/25 23:56	1
Toluene	<0.00201	U	0.00201	0.00201	mg/Kg		05/15/25 18:00	05/15/25 23:56	1
Ethylbenzene	<0.00109	U	0.00201	0.00109	mg/Kg		05/15/25 18:00	05/15/25 23:56	1
m-Xylene & p-Xylene	<0.00229	U	0.00402	0.00229	mg/Kg		05/15/25 18:00	05/15/25 23:56	1
o-Xylene	<0.00159	U	0.00201	0.00159	mg/Kg		05/15/25 18:00	05/15/25 23:56	1
Xylenes, Total	<0.00229	U	0.00402	0.00229	mg/Kg		05/15/25 18:00	05/15/25 23:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	05/15/25 18:00	05/15/25 23:56	1
1,4-Difluorobenzene (Surr)	95		70 - 130	05/15/25 18:00	05/15/25 23:56	1

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### Client Sample Results

Client: Crain Environmental  
 Project/Site: Hale State #4

Job ID: 880-58051-1  
 SDG: Lea Co, NM

**Client Sample ID: TH-10 (4')**

**Lab Sample ID: 880-58051-26**

Date Collected: 05/12/25 15:55

Matrix: Solid

Date Received: 05/13/25 11:11

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00402	0.00229	mg/Kg			05/15/25 23:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	50.0	15.1	mg/Kg			05/14/25 15:41	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	<14.5	U	50.0	14.5	mg/Kg		05/13/25 14:57	05/14/25 15:41	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		05/13/25 14:57	05/14/25 15:41	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		05/13/25 14:57	05/14/25 15:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130	05/13/25 14:57	05/14/25 15:41	1
o-Terphenyl	94		70 - 130	05/13/25 14:57	05/14/25 15:41	1

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	109		9.98	0.394	mg/Kg			05/14/25 15:16	1

**Client Sample ID: TH-11 (1')**

**Lab Sample ID: 880-58051-27**

Date Collected: 05/12/25 16:10

Matrix: Solid

Date Received: 05/13/25 11:11

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00138	U	0.00199	0.00138	mg/Kg		05/15/25 18:00	05/16/25 00:16	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		05/15/25 18:00	05/16/25 00:16	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		05/15/25 18:00	05/16/25 00:16	1
m-Xylene & p-Xylene	<0.00227	U	0.00398	0.00227	mg/Kg		05/15/25 18:00	05/16/25 00:16	1
o-Xylene	<0.00157	U	0.00199	0.00157	mg/Kg		05/15/25 18:00	05/16/25 00:16	1
Xylenes, Total	<0.00227	U	0.00398	0.00227	mg/Kg		05/15/25 18:00	05/16/25 00:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	05/15/25 18:00	05/16/25 00:16	1
1,4-Difluorobenzene (Surr)	97		70 - 130	05/15/25 18:00	05/16/25 00:16	1

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00227	U	0.00398	0.00227	mg/Kg			05/16/25 00:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	50.0	15.1	mg/Kg			05/14/25 15:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		05/13/25 14:57	05/14/25 15:57	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		05/13/25 14:57	05/14/25 15:57	1

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### Client Sample Results

Client: Crain Environmental  
Project/Site: Hale State #4

Job ID: 880-58051-1  
SDG: Lea Co, NM

**Client Sample ID: TH-11 (1')**

**Lab Sample ID: 880-58051-27**

Date Collected: 05/12/25 16:10

Matrix: Solid

Date Received: 05/13/25 11:11

**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)	<15.1	U	50.0	15.1	mg/Kg		05/13/25 14:57	05/14/25 15:57	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1-Chlorooctane	94		70 - 130				05/13/25 14:57	05/14/25 15:57	1
o-Terphenyl	95		70 - 130				05/13/25 14:57	05/14/25 15:57	1

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	136		10.1	0.399	mg/Kg			05/14/25 15:23	1

**Client Sample ID: TH-11 (4')**

**Lab Sample ID: 880-58051-28**

Date Collected: 05/12/25 16:20

Matrix: Solid

Date Received: 05/13/25 11:11

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00199	0.00139	mg/Kg		05/15/25 18:00	05/16/25 00:37	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		05/15/25 18:00	05/16/25 00:37	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		05/15/25 18:00	05/16/25 00:37	1
m-Xylene & p-Xylene	<0.00228	U	0.00398	0.00228	mg/Kg		05/15/25 18:00	05/16/25 00:37	1
o-Xylene	<0.00158	U	0.00199	0.00158	mg/Kg		05/15/25 18:00	05/16/25 00:37	1
Xylenes, Total	<0.00228	U	0.00398	0.00228	mg/Kg		05/15/25 18:00	05/16/25 00:37	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	116		70 - 130				05/15/25 18:00	05/16/25 00:37	1
1,4-Difluorobenzene (Surr)	95		70 - 130				05/15/25 18:00	05/16/25 00:37	1

**Method: TAL SOP Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00398	0.00228	mg/Kg			05/16/25 00:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.2	U	50.1	15.2	mg/Kg			05/14/25 16:14	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	<14.6	U	50.1	14.6	mg/Kg		05/13/25 14:57	05/14/25 16:14	1
Diesel Range Organics (Over C10-C28)	<15.2	U	50.1	15.2	mg/Kg		05/13/25 14:57	05/14/25 16:14	1
Oil Range Organics (Over C28-C36)	<15.2	U	50.1	15.2	mg/Kg		05/13/25 14:57	05/14/25 16:14	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1-Chlorooctane	98		70 - 130				05/13/25 14:57	05/14/25 16:14	1
o-Terphenyl	95		70 - 130				05/13/25 14:57	05/14/25 16:14	1

**Method: EPA 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	104		10.0	0.395	mg/Kg			05/14/25 15:31	1

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## Surrogate Summary

Client: Crain Environmental  
Project/Site: Hale State #4Job ID: 880-58051-1  
SDG: Lea Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

## Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
880-58051-1	TH-1 (1')	109	98
880-58051-1 MS	TH-1 (1')	88	87
880-58051-1 MSD	TH-1 (1')	102	108
880-58051-2	TH-1 (2')	100	97
880-58051-3	TH-1 (3')	104	101
880-58051-4	TH-1 (4')	103	107
880-58051-5	TH-2 (1')	86	95
880-58051-6	TH-2 (4')	75	85
880-58051-7	TH-3 (1')	90	98
880-58051-8	TH-3 (4')	101	103
880-58051-9	TH-4 (1')	96	98
880-58051-10	TH-4 (4')	84	81
880-58051-11	TH-5 (1')	103	104
880-58051-12	TH-5 (4')	82	77
880-58051-13	TH-6 (1')	114	109
880-58051-14	TH-6 (2')	100	104
880-58051-15	TH-6 (3')	102	104
880-58051-16	TH-6 (4')	103	101
880-58051-17	TH-7 (1')	115	113
880-58051-18	TH-7 (2')	102	107
880-58051-19	TH-7 (3')	106	103
880-58051-20	TH-7 (4')	95	107
880-58051-21	TH-8 (1')	117	98
880-58051-21 MS	TH-8 (1')	122	97
880-58051-21 MSD	TH-8 (1')	110	102
880-58051-22	TH-8 (4')	117	95
880-58051-23	TH-9 (1')	123	112
880-58051-24	TH-9 (4')	119	94
880-58051-25	TH-10 (1')	116	97
880-58051-26	TH-10 (4')	116	95
880-58051-27	TH-11 (1')	116	97
880-58051-28	TH-11 (4')	116	95
880-58117-A-1-B MS	Matrix Spike	100	105
880-58117-A-1-C MSD	Matrix Spike Duplicate	104	107
LCS 880-110055/1-A	Lab Control Sample	98	103
LCS 880-110130/1-A	Lab Control Sample	99	95
LCS 880-110248/1-A	Lab Control Sample	120	102
LCSD 880-110055/2-A	Lab Control Sample Dup	98	100
LCSD 880-110130/2-A	Lab Control Sample Dup	104	102
LCSD 880-110248/2-A	Lab Control Sample Dup	114	102
MB 880-110055/5-A	Method Blank	93	92
MB 880-110119/5-A	Method Blank	92	98
MB 880-110130/5-A	Method Blank	156 S1+	98
MB 880-110187/5-A	Method Blank	106	90
MB 880-110248/5-A	Method Blank	106	90

## Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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## Surrogate Summary

Client: Crain Environmental  
Project/Site: Hale State #4Job ID: 880-58051-1  
SDG: Lea Co, NM

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

Matrix: Solid

Prep Type: Total/NA

## Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-58051-1	TH-1 (1')	129	132 S1+
880-58051-2	TH-1 (2')	128	130
880-58051-3	TH-1 (3')	123	126
880-58051-4	TH-1 (4')	130	132 S1+
880-58051-5	TH-2 (1')	129	131 S1+
880-58051-6	TH-2 (4')	121	122
880-58051-7	TH-3 (1')	130	133 S1+
880-58051-8	TH-3 (4')	123	124
880-58051-9	TH-4 (1')	131 S1+	132 S1+
880-58051-10	TH-4 (4')	109	115
880-58051-11	TH-5 (1')	108	117
880-58051-12	TH-5 (4')	123	123
880-58051-13	TH-6 (1')	107	115
880-58051-14	TH-6 (2')	130	135 S1+
880-58051-15	TH-6 (3')	123	127
880-58051-16	TH-6 (4')	124	129
880-58051-17	TH-7 (1')	104	116
880-58051-18	TH-7 (2')	123	129
880-58051-19	TH-7 (3')	93	92
880-58051-19 MS	TH-7 (3')	88	91
880-58051-19 MSD	TH-7 (3')	87	93
880-58051-20	TH-7 (4')	101	99
880-58051-21	TH-8 (1')	92	91
880-58051-22	TH-8 (4')	94	92
880-58051-23	TH-9 (1')	95	95
880-58051-24	TH-9 (4')	95	94
880-58051-25	TH-10 (1')	95	96
880-58051-26	TH-10 (4')	97	94
880-58051-27	TH-11 (1')	94	95
880-58051-28	TH-11 (4')	98	95
890-8144-A-48-E MS	Matrix Spike	132 S1+	131 S1+
890-8144-A-48-F MSD	Matrix Spike Duplicate	114	117
LCS 880-110069/2-A	Lab Control Sample	93	85
LCS 880-110070/2-A	Lab Control Sample	120	106
LCSD 880-110069/3-A	Lab Control Sample Dup	94	91
LCSD 880-110070/3-A	Lab Control Sample Dup	103	108
MB 880-110069/1-A	Method Blank	135 S1+	138 S1+
MB 880-110070/1-A	Method Blank	81	84

## Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

### QC Sample Results

Client: Crain Environmental  
 Project/Site: Hale State #4

Job ID: 880-58051-1  
 SDG: Lea Co, NM

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

Lab Sample ID: MB 880-110055/5-A  
 Matrix: Solid  
 Analysis Batch: 110086

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 110055

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		05/13/25 12:39	05/15/25 00:10	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		05/13/25 12:39	05/15/25 00:10	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		05/13/25 12:39	05/15/25 00:10	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		05/13/25 12:39	05/15/25 00:10	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		05/13/25 12:39	05/15/25 00:10	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		05/13/25 12:39	05/15/25 00:10	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	05/13/25 12:39	05/15/25 00:10	1
1,4-Difluorobenzene (Surr)	92		70 - 130	05/13/25 12:39	05/15/25 00:10	1

Lab Sample ID: LCS 880-110055/1-A  
 Matrix: Solid  
 Analysis Batch: 110086

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 110055

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09855		mg/Kg		99	70 - 130
Toluene	0.100	0.08719		mg/Kg		87	70 - 130
Ethylbenzene	0.100	0.08903		mg/Kg		89	70 - 130
m-Xylene & p-Xylene	0.200	0.1761		mg/Kg		88	70 - 130
o-Xylene	0.100	0.08870		mg/Kg		89	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: LCSD 880-110055/2-A  
 Matrix: Solid  
 Analysis Batch: 110086

Client Sample ID: Lab Control Sample Dup  
 Prep Type: Total/NA  
 Prep Batch: 110055

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.09924		mg/Kg		99	70 - 130	1	35
Toluene	0.100	0.08537		mg/Kg		85	70 - 130	2	35
Ethylbenzene	0.100	0.09131		mg/Kg		91	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.1760		mg/Kg		88	70 - 130	0	35
o-Xylene	0.100	0.08764		mg/Kg		88	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 880-58051-1 MS  
 Matrix: Solid  
 Analysis Batch: 110086

Client Sample ID: TH-1 (1')  
 Prep Type: Total/NA  
 Prep Batch: 110055

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00139	U	0.100	0.08042		mg/Kg		80	70 - 130
Toluene	<0.00200	U F1	0.100	0.06861	F1	mg/Kg		69	70 - 130

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### QC Sample Results

Client: Crain Environmental  
Project/Site: Hale State #4

Job ID: 880-58051-1  
SDG: Lea Co, NM

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

Lab Sample ID: 880-58051-1 MS

Client Sample ID: TH-1 (1')

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 110086

Prep Batch: 110055

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00109	U F1	0.100	0.06645	F1	mg/Kg		66	70 - 130
m-Xylene & p-Xylene	<0.00228	U F1	0.200	0.1311	F1	mg/Kg		66	70 - 130
o-Xylene	<0.00158	U F1	0.100	0.06675	F1	mg/Kg		67	70 - 130

Surrogate	MS %Recovery	MS Qualifier	MS Limits
4-Bromofluorobenzene (Surr)	88		70 - 130
1,4-Difluorobenzene (Surr)	87		70 - 130

Lab Sample ID: 880-58051-1 MSD

Client Sample ID: TH-1 (1')

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 110086

Prep Batch: 110055

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	<0.00139	U	0.100	0.09559		mg/Kg		96	70 - 130	17	35
Toluene	<0.00200	U F1	0.100	0.08532		mg/Kg		85	70 - 130	22	35
Ethylbenzene	<0.00109	U F1	0.100	0.08362		mg/Kg		84	70 - 130	23	35
m-Xylene & p-Xylene	<0.00228	U F1	0.200	0.1536		mg/Kg		77	70 - 130	16	35
o-Xylene	<0.00158	U F1	0.100	0.07782		mg/Kg		78	70 - 130	15	35

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: MB 880-110119/5-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 110086

Prep Batch: 110119

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		05/14/25 11:23	05/14/25 13:10	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		05/14/25 11:23	05/14/25 13:10	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		05/14/25 11:23	05/14/25 13:10	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		05/14/25 11:23	05/14/25 13:10	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		05/14/25 11:23	05/14/25 13:10	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		05/14/25 11:23	05/14/25 13:10	1

Surrogate	MB %Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	05/14/25 11:23	05/14/25 13:10	1
1,4-Difluorobenzene (Surr)	98		70 - 130	05/14/25 11:23	05/14/25 13:10	1

Lab Sample ID: MB 880-110130/5-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 110186

Prep Batch: 110130

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		05/14/25 12:07	05/15/25 13:13	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		05/14/25 12:07	05/15/25 13:13	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		05/14/25 12:07	05/15/25 13:13	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		05/14/25 12:07	05/15/25 13:13	1

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### QC Sample Results

Client: Crain Environmental  
Project/Site: Hale State #4

Job ID: 880-58051-1  
SDG: Lea Co, NM

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

Lab Sample ID: MB 880-110130/5-A  
Matrix: Solid  
Analysis Batch: 110186

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 110130

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		05/14/25 12:07	05/15/25 13:13	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		05/14/25 12:07	05/15/25 13:13	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	156	S1+	70 - 130	05/14/25 12:07	05/15/25 13:13	1
1,4-Difluorobenzene (Surr)	98		70 - 130	05/14/25 12:07	05/15/25 13:13	1

Lab Sample ID: LCS 880-110130/1-A  
Matrix: Solid  
Analysis Batch: 110186

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 110130

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09798		mg/Kg		98	70 - 130
Toluene	0.100	0.08366		mg/Kg		84	70 - 130
Ethylbenzene	0.100	0.1031		mg/Kg		103	70 - 130
m-Xylene & p-Xylene	0.200	0.1763		mg/Kg		88	70 - 130
o-Xylene	0.100	0.08583		mg/Kg		86	70 - 130

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

Lab Sample ID: LCSD 880-110130/2-A  
Matrix: Solid  
Analysis Batch: 110186

Client Sample ID: Lab Control Sample Dup  
Prep Type: Total/NA  
Prep Batch: 110130

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.09049		mg/Kg		90	70 - 130	8	35
Toluene	0.100	0.08137		mg/Kg		81	70 - 130	3	35
Ethylbenzene	0.100	0.08532		mg/Kg		85	70 - 130	19	35
m-Xylene & p-Xylene	0.200	0.1746		mg/Kg		87	70 - 130	1	35
o-Xylene	0.100	0.09010		mg/Kg		90	70 - 130	5	35

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: 880-58117-A-1-B MS  
Matrix: Solid  
Analysis Batch: 110186

Client Sample ID: Matrix Spike  
Prep Type: Total/NA  
Prep Batch: 110130

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00139	U F1	0.100	0.05262	F1	mg/Kg		53	70 - 130
Toluene	<0.00200	U F1	0.100	0.03434	F1	mg/Kg		34	70 - 130
Ethylbenzene	<0.00109	U F1	0.100	0.02398	F1	mg/Kg		24	70 - 130
m-Xylene & p-Xylene	<0.00228	U F1	0.200	0.05240	F1	mg/Kg		26	70 - 130
o-Xylene	<0.00158	U F1	0.100	0.02519	F1	mg/Kg		25	70 - 130

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### QC Sample Results

Client: Crain Environmental  
Project/Site: Hale State #4

Job ID: 880-58051-1  
SDG: Lea Co, NM

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

**Lab Sample ID: 880-58117-A-1-B MS**  
**Matrix: Solid**  
**Analysis Batch: 110186**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 110130**

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

**Lab Sample ID: 880-58117-A-1-C MSD**  
**Matrix: Solid**  
**Analysis Batch: 110186**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 110130**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00139	U F1	0.100	0.05047	F1	mg/Kg		50	70 - 130	4	35
Toluene	<0.00200	U F1	0.100	0.03016	F1	mg/Kg		30	70 - 130	13	35
Ethylbenzene	<0.00109	U F1	0.100	0.02365	F1	mg/Kg		24	70 - 130	1	35
m-Xylene & p-Xylene	<0.00228	U F1	0.200	0.05021	F1	mg/Kg		25	70 - 130	4	35
o-Xylene	<0.00158	U F1	0.100	0.02412	F1	mg/Kg		24	70 - 130	4	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

**Lab Sample ID: MB 880-110187/5-A**  
**Matrix: Solid**  
**Analysis Batch: 110184**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 110187**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		05/15/25 08:23	05/15/25 11:15	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		05/15/25 08:23	05/15/25 11:15	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		05/15/25 08:23	05/15/25 11:15	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		05/15/25 08:23	05/15/25 11:15	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		05/15/25 08:23	05/15/25 11:15	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		05/15/25 08:23	05/15/25 11:15	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	05/15/25 08:23	05/15/25 11:15	1
1,4-Difluorobenzene (Surr)	90		70 - 130	05/15/25 08:23	05/15/25 11:15	1

**Lab Sample ID: MB 880-110248/5-A**  
**Matrix: Solid**  
**Analysis Batch: 110184**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 110248**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		05/15/25 18:00	05/15/25 22:12	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		05/15/25 18:00	05/15/25 22:12	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		05/15/25 18:00	05/15/25 22:12	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		05/15/25 18:00	05/15/25 22:12	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		05/15/25 18:00	05/15/25 22:12	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		05/15/25 18:00	05/15/25 22:12	1

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### QC Sample Results

Client: Crain Environmental  
Project/Site: Hale State #4

Job ID: 880-58051-1  
SDG: Lea Co, NM

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

Lab Sample ID: MB 880-110248/5-A  
Matrix: Solid  
Analysis Batch: 110184

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 110248

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	05/15/25 18:00	05/15/25 22:12	1
1,4-Difluorobenzene (Surr)	90		70 - 130	05/15/25 18:00	05/15/25 22:12	1

Lab Sample ID: LCS 880-110248/1-A  
Matrix: Solid  
Analysis Batch: 110184

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 110248

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1029		mg/Kg		103	70 - 130
Toluene	0.100	0.1127		mg/Kg		113	70 - 130
Ethylbenzene	0.100	0.1158		mg/Kg		116	70 - 130
m-Xylene & p-Xylene	0.200	0.2329		mg/Kg		116	70 - 130
o-Xylene	0.100	0.1172		mg/Kg		117	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	120		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: LCSD 880-110248/2-A  
Matrix: Solid  
Analysis Batch: 110184

Client Sample ID: Lab Control Sample Dup  
Prep Type: Total/NA  
Prep Batch: 110248

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.1020		mg/Kg		102	70 - 130	1	35
Toluene	0.100	0.1101		mg/Kg		110	70 - 130	2	35
Ethylbenzene	0.100	0.1111		mg/Kg		111	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.2212		mg/Kg		111	70 - 130	5	35
o-Xylene	0.100	0.1110		mg/Kg		111	70 - 130	5	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: 880-58051-21 MS  
Matrix: Solid  
Analysis Batch: 110184

Client Sample ID: TH-8 (1')  
Prep Type: Total/NA  
Prep Batch: 110248

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00139	U	0.100	0.08344		mg/Kg		83	70 - 130
Toluene	<0.00200	U	0.100	0.08725		mg/Kg		87	70 - 130
Ethylbenzene	<0.00109	U	0.100	0.08964		mg/Kg		90	70 - 130
m-Xylene & p-Xylene	<0.00228	U	0.200	0.1772		mg/Kg		89	70 - 130
o-Xylene	<0.00158	U	0.100	0.08943		mg/Kg		89	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	122		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

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### QC Sample Results

Client: Crain Environmental  
Project/Site: Hale State #4

Job ID: 880-58051-1  
SDG: Lea Co, NM

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

Lab Sample ID: 880-58051-21 MSD  
Matrix: Solid  
Analysis Batch: 110184

Client Sample ID: TH-8 (1')  
Prep Type: Total/NA  
Prep Batch: 110248

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Benzene	<0.00139	U	0.100	0.08878		mg/Kg		89	70 - 130	6	35
Toluene	<0.00200	U	0.100	0.09058		mg/Kg		91	70 - 130	4	35
Ethylbenzene	<0.00109	U	0.100	0.09257		mg/Kg		93	70 - 130	3	35
m-Xylene & p-Xylene	<0.00228	U	0.200	0.1838		mg/Kg		92	70 - 130	4	35
o-Xylene	<0.00158	U	0.100	0.09260		mg/Kg		93	70 - 130	3	35
<b>MSD MSD</b>											
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>								
4-Bromofluorobenzene (Surr)	110		70 - 130								
1,4-Difluorobenzene (Surr)	102		70 - 130								

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

Lab Sample ID: MB 880-110069/1-A  
Matrix: Solid  
Analysis Batch: 110094

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 110069

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		05/13/25 14:52	05/15/25 00:33	1
Diesel Range Organics (Over C10-C28)	24.22	J	50.0	15.1	mg/Kg		05/13/25 14:52	05/15/25 00:33	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		05/13/25 14:52	05/15/25 00:33	1
<b>MB MB</b>									
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>	<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>			
1-Chlorooctane	135	S1+	70 - 130	05/13/25 14:52	05/15/25 00:33	1			
o-Terphenyl	138	S1+	70 - 130	05/13/25 14:52	05/15/25 00:33	1			

Lab Sample ID: LCS 880-110069/2-A  
Matrix: Solid  
Analysis Batch: 110094

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 110069

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	RPD	Limit
							Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	1146		mg/Kg		115	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	1145		mg/Kg		114	70 - 130		
<b>LCS LCS</b>									
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>						
1-Chlorooctane	93		70 - 130						
o-Terphenyl	85		70 - 130						

Lab Sample ID: LCSD 880-110069/3-A  
Matrix: Solid  
Analysis Batch: 110094

Client Sample ID: Lab Control Sample Dup  
Prep Type: Total/NA  
Prep Batch: 110069

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec	RPD	Limit
							Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	1165		mg/Kg		117	70 - 130	2	20

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### QC Sample Results

Client: Crain Environmental  
Project/Site: Hale State #4

Job ID: 880-58051-1  
SDG: Lea Co, NM

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

**Lab Sample ID: LCSD 880-110069/3-A**  
**Matrix: Solid**  
**Analysis Batch: 110094**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 110069**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics (Over C10-C28)	1000	1186		mg/Kg		119	70 - 130	3	20
<b>Surrogate</b>		<b>LCSD %Recovery</b>	<b>LCSD Qualifier</b>				<b>Limits</b>		
1-Chlorooctane		94					70 - 130		
o-Terphenyl		91					70 - 130		

**Lab Sample ID: 890-8144-A-48-E MS**  
**Matrix: Solid**  
**Analysis Batch: 110094**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 110069**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	999	988.3		mg/Kg		99	70 - 130
Diesel Range Organics (Over C10-C28)	<15.1	U	999	899.5		mg/Kg		90	70 - 130
<b>Surrogate</b>		<b>MS %Recovery</b>		<b>MS Qualifier</b>					<b>Limits</b>
1-Chlorooctane		132		S1+					70 - 130
o-Terphenyl		131		S1+					70 - 130

**Lab Sample ID: 890-8144-A-48-F MSD**  
**Matrix: Solid**  
**Analysis Batch: 110094**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 110069**

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	<14.5	U	999	856.0		mg/Kg		86	70 - 130	14	20
Diesel Range Organics (Over C10-C28)	<15.1	U	999	781.1		mg/Kg		78	70 - 130	14	20
<b>Surrogate</b>		<b>MSD %Recovery</b>		<b>MSD Qualifier</b>					<b>Limits</b>		
1-Chlorooctane		114							70 - 130		
o-Terphenyl		117							70 - 130		

**Lab Sample ID: MB 880-110070/1-A**  
**Matrix: Solid**  
**Analysis Batch: 110100**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 110070**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	19.50	J	50.0	14.5	mg/Kg		05/13/25 14:57	05/14/25 06:57	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		05/13/25 14:57	05/14/25 06:57	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		05/13/25 14:57	05/14/25 06:57	1
<b>Surrogate</b>		<b>MB %Recovery</b>		<b>MB Qualifier</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1-Chlorooctane		81					05/13/25 14:57	05/14/25 06:57	1
o-Terphenyl		84					05/13/25 14:57	05/14/25 06:57	1

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### QC Sample Results

Client: Crain Environmental  
 Project/Site: Hale State #4

Job ID: 880-58051-1  
 SDG: Lea Co, NM

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

**Lab Sample ID: LCS 880-110070/2-A**  
**Matrix: Solid**  
**Analysis Batch: 110100**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 110070**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	862.4		mg/Kg		86	70 - 130
Diesel Range Organics (Over C10-C28)	1000	841.1		mg/Kg		84	70 - 130
		<b>LCS</b>	<b>LCS</b>				
<b>Surrogate</b>		<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>			
1-Chlorooctane		120		70 - 130			
o-Terphenyl		106		70 - 130			

**Lab Sample ID: LCSD 880-110070/3-A**  
**Matrix: Solid**  
**Analysis Batch: 110100**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 110070**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	842.1		mg/Kg		84	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	907.2		mg/Kg		91	70 - 130	8	20
		<b>LCSD</b>	<b>LCSD</b>						
<b>Surrogate</b>		<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>					
1-Chlorooctane		103		70 - 130					
o-Terphenyl		108		70 - 130					

**Lab Sample ID: 880-58051-19 MS**  
**Matrix: Solid**  
**Analysis Batch: 110100**

**Client Sample ID: TH-7 (3')**  
**Prep Type: Total/NA**  
**Prep Batch: 110070**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	1000	747.8		mg/Kg		75	70 - 130
Diesel Range Organics (Over C10-C28)	<15.1	U	1000	795.8		mg/Kg		79	70 - 130
		<b>MS</b>	<b>MS</b>						
<b>Surrogate</b>		<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>					
1-Chlorooctane		88		70 - 130					
o-Terphenyl		91		70 - 130					

**Lab Sample ID: 880-58051-19 MSD**  
**Matrix: Solid**  
**Analysis Batch: 110100**

**Client Sample ID: TH-7 (3')**  
**Prep Type: Total/NA**  
**Prep Batch: 110070**

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	<14.5	U	1000	732.1		mg/Kg		73	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<15.1	U	1000	805.0		mg/Kg		80	70 - 130	1	20
		<b>MSD</b>	<b>MSD</b>								
<b>Surrogate</b>		<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>							
1-Chlorooctane		87		70 - 130							

Eurofins Midland

### QC Sample Results

Client: Crain Environmental  
 Project/Site: Hale State #4

Job ID: 880-58051-1  
 SDG: Lea Co, NM

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

Lab Sample ID: 880-58051-19 MSD  
 Matrix: Solid  
 Analysis Batch: 110100

Client Sample ID: TH-7 (3')  
 Prep Type: Total/NA  
 Prep Batch: 110070

Surrogate	%Recovery	MSD MSD Qualifier	Limits
<i>o</i> -Terphenyl	93		70 - 130

#### Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-110106/1-A  
 Matrix: Solid  
 Analysis Batch: 110108

Client Sample ID: Method Blank  
 Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.395	U	10.0	0.395	mg/Kg			05/14/25 11:14	1

Lab Sample ID: LCS 880-110106/2-A  
 Matrix: Solid  
 Analysis Batch: 110108

Client Sample ID: Lab Control Sample  
 Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	238.0		mg/Kg		95	90 - 110

Lab Sample ID: LCSD 880-110106/3-A  
 Matrix: Solid  
 Analysis Batch: 110108

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Chloride	250	238.9		mg/Kg		96	90 - 110	0	20

Lab Sample ID: 880-58051-10 MS  
 Matrix: Solid  
 Analysis Batch: 110108

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	82.9	F1	253	380.9	F1	mg/Kg		118	90 - 110

Lab Sample ID: 880-58051-10 MSD  
 Matrix: Solid  
 Analysis Batch: 110108

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Chloride	82.9	F1	253	381.1	F1	mg/Kg		118	90 - 110	0	20

Lab Sample ID: MB 880-110117/1-A  
 Matrix: Solid  
 Analysis Batch: 110129

Client Sample ID: Method Blank  
 Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.395	U	10.0	0.395	mg/Kg			05/14/25 13:44	1

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### QC Sample Results

Client: Crain Environmental  
 Project/Site: Hale State #4

Job ID: 880-58051-1  
 SDG: Lea Co, NM

#### Method: 300.0 - Anions, Ion Chromatography (Continued)

**Lab Sample ID: LCS 880-110117/2-A**  
**Matrix: Solid**  
**Analysis Batch: 110129**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	252.1		mg/Kg		101	90 - 110

**Lab Sample ID: LCSD 880-110117/3-A**  
**Matrix: Solid**  
**Analysis Batch: 110129**

**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	249.5		mg/Kg		100	90 - 110	1	20

**Lab Sample ID: 880-58051-20 MS**  
**Matrix: Solid**  
**Analysis Batch: 110129**

**Client Sample ID: TH-7 (4')**  
**Prep Type: Soluble**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	656	F1	252	944.4	F1	mg/Kg		115	90 - 110

**Lab Sample ID: 880-58051-20 MSD**  
**Matrix: Solid**  
**Analysis Batch: 110129**

**Client Sample ID: TH-7 (4')**  
**Prep Type: Soluble**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	656	F1	252	937.7	F1	mg/Kg		112	90 - 110	1	20

### QC Association Summary

Client: Crain Environmental  
 Project/Site: Hale State #4

Job ID: 880-58051-1  
 SDG: Lea Co, NM

#### GC VOA

##### Prep Batch: 110055

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58051-1	TH-1 (1')	Total/NA	Solid	5035	
880-58051-2	TH-1 (2')	Total/NA	Solid	5035	
880-58051-3	TH-1 (3')	Total/NA	Solid	5035	
880-58051-4	TH-1 (4')	Total/NA	Solid	5035	
880-58051-5	TH-2 (1')	Total/NA	Solid	5035	
880-58051-6	TH-2 (4')	Total/NA	Solid	5035	
880-58051-7	TH-3 (1')	Total/NA	Solid	5035	
880-58051-8	TH-3 (4')	Total/NA	Solid	5035	
880-58051-9	TH-4 (1')	Total/NA	Solid	5035	
880-58051-10	TH-4 (4')	Total/NA	Solid	5035	
880-58051-11	TH-5 (1')	Total/NA	Solid	5035	
880-58051-12	TH-5 (4')	Total/NA	Solid	5035	
880-58051-13	TH-6 (1')	Total/NA	Solid	5035	
880-58051-14	TH-6 (2')	Total/NA	Solid	5035	
880-58051-15	TH-6 (3')	Total/NA	Solid	5035	
880-58051-16	TH-6 (4')	Total/NA	Solid	5035	
880-58051-17	TH-7 (1')	Total/NA	Solid	5035	
880-58051-18	TH-7 (2')	Total/NA	Solid	5035	
880-58051-19	TH-7 (3')	Total/NA	Solid	5035	
880-58051-20	TH-7 (4')	Total/NA	Solid	5035	
MB 880-110055/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-110055/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCS 880-110055/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-58051-1 MS	TH-1 (1')	Total/NA	Solid	5035	
880-58051-1 MSD	TH-1 (1')	Total/NA	Solid	5035	

##### Analysis Batch: 110086

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58051-1	TH-1 (1')	Total/NA	Solid	8021B	110055
880-58051-2	TH-1 (2')	Total/NA	Solid	8021B	110055
880-58051-3	TH-1 (3')	Total/NA	Solid	8021B	110055
880-58051-4	TH-1 (4')	Total/NA	Solid	8021B	110055
880-58051-5	TH-2 (1')	Total/NA	Solid	8021B	110055
880-58051-6	TH-2 (4')	Total/NA	Solid	8021B	110055
880-58051-7	TH-3 (1')	Total/NA	Solid	8021B	110055
880-58051-8	TH-3 (4')	Total/NA	Solid	8021B	110055
880-58051-9	TH-4 (1')	Total/NA	Solid	8021B	110055
880-58051-10	TH-4 (4')	Total/NA	Solid	8021B	110055
880-58051-11	TH-5 (1')	Total/NA	Solid	8021B	110055
880-58051-12	TH-5 (4')	Total/NA	Solid	8021B	110055
880-58051-13	TH-6 (1')	Total/NA	Solid	8021B	110055
880-58051-14	TH-6 (2')	Total/NA	Solid	8021B	110055
880-58051-15	TH-6 (3')	Total/NA	Solid	8021B	110055
880-58051-16	TH-6 (4')	Total/NA	Solid	8021B	110055
880-58051-17	TH-7 (1')	Total/NA	Solid	8021B	110055
880-58051-18	TH-7 (2')	Total/NA	Solid	8021B	110055
880-58051-19	TH-7 (3')	Total/NA	Solid	8021B	110055
880-58051-20	TH-7 (4')	Total/NA	Solid	8021B	110055
MB 880-110055/5-A	Method Blank	Total/NA	Solid	8021B	110055
MB 880-110119/5-A	Method Blank	Total/NA	Solid	8021B	110119
LCS 880-110055/1-A	Lab Control Sample	Total/NA	Solid	8021B	110055

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## QC Association Summary

Client: Crain Environmental  
Project/Site: Hale State #4Job ID: 880-58051-1  
SDG: Lea Co, NM

## GC VOA (Continued)

## Analysis Batch: 110086 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-110055/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	110055
880-58051-1 MS	TH-1 (1')	Total/NA	Solid	8021B	110055
880-58051-1 MSD	TH-1 (1')	Total/NA	Solid	8021B	110055

## Prep Batch: 110119

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-110119/5-A	Method Blank	Total/NA	Solid	5035	

## Prep Batch: 110130

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58051-23	TH-9 (1')	Total/NA	Solid	5035	
MB 880-110130/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-110130/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-110130/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-58117-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
880-58117-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

## Analysis Batch: 110184

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58051-21	TH-8 (1')	Total/NA	Solid	8021B	110248
880-58051-22	TH-8 (4')	Total/NA	Solid	8021B	110248
880-58051-24	TH-9 (4')	Total/NA	Solid	8021B	110248
880-58051-25	TH-10 (1')	Total/NA	Solid	8021B	110248
880-58051-26	TH-10 (4')	Total/NA	Solid	8021B	110248
880-58051-27	TH-11 (1')	Total/NA	Solid	8021B	110248
880-58051-28	TH-11 (4')	Total/NA	Solid	8021B	110248
MB 880-110187/5-A	Method Blank	Total/NA	Solid	8021B	110187
MB 880-110248/5-A	Method Blank	Total/NA	Solid	8021B	110248
LCS 880-110248/1-A	Lab Control Sample	Total/NA	Solid	8021B	110248
LCSD 880-110248/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	110248
880-58051-21 MS	TH-8 (1')	Total/NA	Solid	8021B	110248
880-58051-21 MSD	TH-8 (1')	Total/NA	Solid	8021B	110248

## Analysis Batch: 110186

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58051-23	TH-9 (1')	Total/NA	Solid	8021B	110130
MB 880-110130/5-A	Method Blank	Total/NA	Solid	8021B	110130
LCS 880-110130/1-A	Lab Control Sample	Total/NA	Solid	8021B	110130
LCSD 880-110130/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	110130
880-58117-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	110130
880-58117-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	110130

## Prep Batch: 110187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-110187/5-A	Method Blank	Total/NA	Solid	5035	

## Analysis Batch: 110211

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58051-1	TH-1 (1')	Total/NA	Solid	Total BTEX	
880-58051-2	TH-1 (2')	Total/NA	Solid	Total BTEX	
880-58051-3	TH-1 (3')	Total/NA	Solid	Total BTEX	

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## QC Association Summary

Client: Crain Environmental  
Project/Site: Hale State #4Job ID: 880-58051-1  
SDG: Lea Co, NM

## GC VOA (Continued)

## Analysis Batch: 110211 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58051-4	TH-1 (4')	Total/NA	Solid	Total BTEX	
880-58051-5	TH-2 (1')	Total/NA	Solid	Total BTEX	
880-58051-6	TH-2 (4')	Total/NA	Solid	Total BTEX	
880-58051-7	TH-3 (1')	Total/NA	Solid	Total BTEX	
880-58051-8	TH-3 (4')	Total/NA	Solid	Total BTEX	
880-58051-9	TH-4 (1')	Total/NA	Solid	Total BTEX	
880-58051-10	TH-4 (4')	Total/NA	Solid	Total BTEX	
880-58051-11	TH-5 (1')	Total/NA	Solid	Total BTEX	
880-58051-12	TH-5 (4')	Total/NA	Solid	Total BTEX	
880-58051-13	TH-6 (1')	Total/NA	Solid	Total BTEX	
880-58051-14	TH-6 (2')	Total/NA	Solid	Total BTEX	
880-58051-15	TH-6 (3')	Total/NA	Solid	Total BTEX	
880-58051-16	TH-6 (4')	Total/NA	Solid	Total BTEX	
880-58051-17	TH-7 (1')	Total/NA	Solid	Total BTEX	
880-58051-18	TH-7 (2')	Total/NA	Solid	Total BTEX	
880-58051-19	TH-7 (3')	Total/NA	Solid	Total BTEX	
880-58051-20	TH-7 (4')	Total/NA	Solid	Total BTEX	
880-58051-21	TH-8 (1')	Total/NA	Solid	Total BTEX	
880-58051-22	TH-8 (4')	Total/NA	Solid	Total BTEX	
880-58051-23	TH-9 (1')	Total/NA	Solid	Total BTEX	
880-58051-24	TH-9 (4')	Total/NA	Solid	Total BTEX	
880-58051-25	TH-10 (1')	Total/NA	Solid	Total BTEX	
880-58051-26	TH-10 (4')	Total/NA	Solid	Total BTEX	
880-58051-27	TH-11 (1')	Total/NA	Solid	Total BTEX	
880-58051-28	TH-11 (4')	Total/NA	Solid	Total BTEX	

## Prep Batch: 110248

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58051-21	TH-8 (1')	Total/NA	Solid	5035	
880-58051-22	TH-8 (4')	Total/NA	Solid	5035	
880-58051-24	TH-9 (4')	Total/NA	Solid	5035	
880-58051-25	TH-10 (1')	Total/NA	Solid	5035	
880-58051-26	TH-10 (4')	Total/NA	Solid	5035	
880-58051-27	TH-11 (1')	Total/NA	Solid	5035	
880-58051-28	TH-11 (4')	Total/NA	Solid	5035	
MB 880-110248/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-110248/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCS 880-110248/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-58051-21 MS	TH-8 (1')	Total/NA	Solid	5035	
880-58051-21 MSD	TH-8 (1')	Total/NA	Solid	5035	

## GC Semi VOA

## Prep Batch: 110069

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58051-1	TH-1 (1')	Total/NA	Solid	8015NM Prep	
880-58051-2	TH-1 (2')	Total/NA	Solid	8015NM Prep	
880-58051-3	TH-1 (3')	Total/NA	Solid	8015NM Prep	
880-58051-4	TH-1 (4')	Total/NA	Solid	8015NM Prep	
880-58051-5	TH-2 (1')	Total/NA	Solid	8015NM Prep	
880-58051-6	TH-2 (4')	Total/NA	Solid	8015NM Prep	

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## QC Association Summary

Client: Crain Environmental  
Project/Site: Hale State #4Job ID: 880-58051-1  
SDG: Lea Co, NM

## GC Semi VOA (Continued)

## Prep Batch: 110069 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58051-7	TH-3 (1')	Total/NA	Solid	8015NM Prep	
880-58051-8	TH-3 (4')	Total/NA	Solid	8015NM Prep	
880-58051-9	TH-4 (1')	Total/NA	Solid	8015NM Prep	
880-58051-10	TH-4 (4')	Total/NA	Solid	8015NM Prep	
880-58051-11	TH-5 (1')	Total/NA	Solid	8015NM Prep	
880-58051-12	TH-5 (4')	Total/NA	Solid	8015NM Prep	
880-58051-13	TH-6 (1')	Total/NA	Solid	8015NM Prep	
880-58051-14	TH-6 (2')	Total/NA	Solid	8015NM Prep	
880-58051-15	TH-6 (3')	Total/NA	Solid	8015NM Prep	
880-58051-16	TH-6 (4')	Total/NA	Solid	8015NM Prep	
880-58051-17	TH-7 (1')	Total/NA	Solid	8015NM Prep	
880-58051-18	TH-7 (2')	Total/NA	Solid	8015NM Prep	
MB 880-110069/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-110069/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCS 880-110069/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-8144-A-48-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-8144-A-48-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

## Prep Batch: 110070

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58051-19	TH-7 (3')	Total/NA	Solid	8015NM Prep	
880-58051-20	TH-7 (4')	Total/NA	Solid	8015NM Prep	
880-58051-21	TH-8 (1')	Total/NA	Solid	8015NM Prep	
880-58051-22	TH-8 (4')	Total/NA	Solid	8015NM Prep	
880-58051-23	TH-9 (1')	Total/NA	Solid	8015NM Prep	
880-58051-24	TH-9 (4')	Total/NA	Solid	8015NM Prep	
880-58051-25	TH-10 (1')	Total/NA	Solid	8015NM Prep	
880-58051-26	TH-10 (4')	Total/NA	Solid	8015NM Prep	
880-58051-27	TH-11 (1')	Total/NA	Solid	8015NM Prep	
880-58051-28	TH-11 (4')	Total/NA	Solid	8015NM Prep	
MB 880-110070/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-110070/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCS 880-110070/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-58051-19 MS	TH-7 (3')	Total/NA	Solid	8015NM Prep	
880-58051-19 MSD	TH-7 (3')	Total/NA	Solid	8015NM Prep	

## Analysis Batch: 110094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58051-1	TH-1 (1')	Total/NA	Solid	8015B NM	110069
880-58051-2	TH-1 (2')	Total/NA	Solid	8015B NM	110069
880-58051-3	TH-1 (3')	Total/NA	Solid	8015B NM	110069
880-58051-4	TH-1 (4')	Total/NA	Solid	8015B NM	110069
880-58051-5	TH-2 (1')	Total/NA	Solid	8015B NM	110069
880-58051-6	TH-2 (4')	Total/NA	Solid	8015B NM	110069
880-58051-7	TH-3 (1')	Total/NA	Solid	8015B NM	110069
880-58051-8	TH-3 (4')	Total/NA	Solid	8015B NM	110069
880-58051-9	TH-4 (1')	Total/NA	Solid	8015B NM	110069
880-58051-10	TH-4 (4')	Total/NA	Solid	8015B NM	110069
880-58051-11	TH-5 (1')	Total/NA	Solid	8015B NM	110069
880-58051-12	TH-5 (4')	Total/NA	Solid	8015B NM	110069
880-58051-13	TH-6 (1')	Total/NA	Solid	8015B NM	110069

Eurofins Midland

## QC Association Summary

Client: Crain Environmental  
Project/Site: Hale State #4Job ID: 880-58051-1  
SDG: Lea Co, NM

## GC Semi VOA (Continued)

## Analysis Batch: 110094 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58051-14	TH-6 (2')	Total/NA	Solid	8015B NM	110069
880-58051-15	TH-6 (3')	Total/NA	Solid	8015B NM	110069
880-58051-16	TH-6 (4')	Total/NA	Solid	8015B NM	110069
880-58051-17	TH-7 (1')	Total/NA	Solid	8015B NM	110069
880-58051-18	TH-7 (2')	Total/NA	Solid	8015B NM	110069
MB 880-110069/1-A	Method Blank	Total/NA	Solid	8015B NM	110069
LCS 880-110069/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	110069
LCSD 880-110069/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	110069
890-8144-A-48-E MS	Matrix Spike	Total/NA	Solid	8015B NM	110069
890-8144-A-48-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	110069

## Analysis Batch: 110100

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58051-19	TH-7 (3')	Total/NA	Solid	8015B NM	110070
880-58051-20	TH-7 (4')	Total/NA	Solid	8015B NM	110070
880-58051-21	TH-8 (1')	Total/NA	Solid	8015B NM	110070
880-58051-22	TH-8 (4')	Total/NA	Solid	8015B NM	110070
880-58051-23	TH-9 (1')	Total/NA	Solid	8015B NM	110070
880-58051-24	TH-9 (4')	Total/NA	Solid	8015B NM	110070
880-58051-25	TH-10 (1')	Total/NA	Solid	8015B NM	110070
880-58051-26	TH-10 (4')	Total/NA	Solid	8015B NM	110070
880-58051-27	TH-11 (1')	Total/NA	Solid	8015B NM	110070
880-58051-28	TH-11 (4')	Total/NA	Solid	8015B NM	110070
MB 880-110070/1-A	Method Blank	Total/NA	Solid	8015B NM	110070
LCS 880-110070/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	110070
LCSD 880-110070/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	110070
880-58051-19 MS	TH-7 (3')	Total/NA	Solid	8015B NM	110070
880-58051-19 MSD	TH-7 (3')	Total/NA	Solid	8015B NM	110070

## Analysis Batch: 110136

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58051-1	TH-1 (1')	Total/NA	Solid	8015 NM	
880-58051-2	TH-1 (2')	Total/NA	Solid	8015 NM	
880-58051-3	TH-1 (3')	Total/NA	Solid	8015 NM	
880-58051-4	TH-1 (4')	Total/NA	Solid	8015 NM	
880-58051-5	TH-2 (1')	Total/NA	Solid	8015 NM	
880-58051-6	TH-2 (4')	Total/NA	Solid	8015 NM	
880-58051-7	TH-3 (1')	Total/NA	Solid	8015 NM	
880-58051-8	TH-3 (4')	Total/NA	Solid	8015 NM	
880-58051-9	TH-4 (1')	Total/NA	Solid	8015 NM	
880-58051-10	TH-4 (4')	Total/NA	Solid	8015 NM	
880-58051-11	TH-5 (1')	Total/NA	Solid	8015 NM	
880-58051-12	TH-5 (4')	Total/NA	Solid	8015 NM	
880-58051-13	TH-6 (1')	Total/NA	Solid	8015 NM	
880-58051-14	TH-6 (2')	Total/NA	Solid	8015 NM	
880-58051-15	TH-6 (3')	Total/NA	Solid	8015 NM	
880-58051-16	TH-6 (4')	Total/NA	Solid	8015 NM	
880-58051-17	TH-7 (1')	Total/NA	Solid	8015 NM	
880-58051-18	TH-7 (2')	Total/NA	Solid	8015 NM	
880-58051-19	TH-7 (3')	Total/NA	Solid	8015 NM	
880-58051-20	TH-7 (4')	Total/NA	Solid	8015 NM	

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## QC Association Summary

Client: Crain Environmental  
Project/Site: Hale State #4Job ID: 880-58051-1  
SDG: Lea Co, NM

## GC Semi VOA (Continued)

## Analysis Batch: 110136 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58051-21	TH-8 (1')	Total/NA	Solid	8015 NM	
880-58051-22	TH-8 (4')	Total/NA	Solid	8015 NM	
880-58051-23	TH-9 (1')	Total/NA	Solid	8015 NM	
880-58051-24	TH-9 (4')	Total/NA	Solid	8015 NM	
880-58051-25	TH-10 (1')	Total/NA	Solid	8015 NM	
880-58051-26	TH-10 (4')	Total/NA	Solid	8015 NM	
880-58051-27	TH-11 (1')	Total/NA	Solid	8015 NM	
880-58051-28	TH-11 (4')	Total/NA	Solid	8015 NM	

## HPLC/IC

## Leach Batch: 110106

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58051-1	TH-1 (1')	Soluble	Solid	DI Leach	
880-58051-2	TH-1 (2')	Soluble	Solid	DI Leach	
880-58051-3	TH-1 (3')	Soluble	Solid	DI Leach	
880-58051-4	TH-1 (4')	Soluble	Solid	DI Leach	
880-58051-5	TH-2 (1')	Soluble	Solid	DI Leach	
880-58051-6	TH-2 (4')	Soluble	Solid	DI Leach	
880-58051-7	TH-3 (1')	Soluble	Solid	DI Leach	
880-58051-8	TH-3 (4')	Soluble	Solid	DI Leach	
880-58051-9	TH-4 (1')	Soluble	Solid	DI Leach	
880-58051-10	TH-4 (4')	Soluble	Solid	DI Leach	
880-58051-11	TH-5 (1')	Soluble	Solid	DI Leach	
880-58051-12	TH-5 (4')	Soluble	Solid	DI Leach	
880-58051-13	TH-6 (1')	Soluble	Solid	DI Leach	
880-58051-14	TH-6 (2')	Soluble	Solid	DI Leach	
880-58051-15	TH-6 (3')	Soluble	Solid	DI Leach	
880-58051-16	TH-6 (4')	Soluble	Solid	DI Leach	
880-58051-17	TH-7 (1')	Soluble	Solid	DI Leach	
880-58051-18	TH-7 (2')	Soluble	Solid	DI Leach	
880-58051-19	TH-7 (3')	Soluble	Solid	DI Leach	
MB 880-110106/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-110106/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-110106/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-58051-10 MS	TH-4 (4')	Soluble	Solid	DI Leach	
880-58051-10 MSD	TH-4 (4')	Soluble	Solid	DI Leach	

## Analysis Batch: 110108

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58051-1	TH-1 (1')	Soluble	Solid	300.0	110106
880-58051-2	TH-1 (2')	Soluble	Solid	300.0	110106
880-58051-3	TH-1 (3')	Soluble	Solid	300.0	110106
880-58051-4	TH-1 (4')	Soluble	Solid	300.0	110106
880-58051-5	TH-2 (1')	Soluble	Solid	300.0	110106
880-58051-6	TH-2 (4')	Soluble	Solid	300.0	110106
880-58051-7	TH-3 (1')	Soluble	Solid	300.0	110106
880-58051-8	TH-3 (4')	Soluble	Solid	300.0	110106
880-58051-9	TH-4 (1')	Soluble	Solid	300.0	110106
880-58051-10	TH-4 (4')	Soluble	Solid	300.0	110106
880-58051-11	TH-5 (1')	Soluble	Solid	300.0	110106

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## QC Association Summary

Client: Crain Environmental  
Project/Site: Hale State #4Job ID: 880-58051-1  
SDG: Lea Co, NM

## HPLC/IC (Continued)

## Analysis Batch: 110108 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58051-12	TH-5 (4')	Soluble	Solid	300.0	110106
880-58051-13	TH-6 (1')	Soluble	Solid	300.0	110106
880-58051-14	TH-6 (2')	Soluble	Solid	300.0	110106
880-58051-15	TH-6 (3')	Soluble	Solid	300.0	110106
880-58051-16	TH-6 (4')	Soluble	Solid	300.0	110106
880-58051-17	TH-7 (1')	Soluble	Solid	300.0	110106
880-58051-18	TH-7 (2')	Soluble	Solid	300.0	110106
880-58051-19	TH-7 (3')	Soluble	Solid	300.0	110106
MB 880-110106/1-A	Method Blank	Soluble	Solid	300.0	110106
LCS 880-110106/2-A	Lab Control Sample	Soluble	Solid	300.0	110106
LCSD 880-110106/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	110106
880-58051-10 MS	TH-4 (4')	Soluble	Solid	300.0	110106
880-58051-10 MSD	TH-4 (4')	Soluble	Solid	300.0	110106

## Leach Batch: 110117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58051-20	TH-7 (4')	Soluble	Solid	DI Leach	
880-58051-21	TH-8 (1')	Soluble	Solid	DI Leach	
880-58051-22	TH-8 (4')	Soluble	Solid	DI Leach	
880-58051-23	TH-9 (1')	Soluble	Solid	DI Leach	
880-58051-24	TH-9 (4')	Soluble	Solid	DI Leach	
880-58051-25	TH-10 (1')	Soluble	Solid	DI Leach	
880-58051-26	TH-10 (4')	Soluble	Solid	DI Leach	
880-58051-27	TH-11 (1')	Soluble	Solid	DI Leach	
880-58051-28	TH-11 (4')	Soluble	Solid	DI Leach	
MB 880-110117/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-110117/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-110117/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-58051-20 MS	TH-7 (4')	Soluble	Solid	DI Leach	
880-58051-20 MSD	TH-7 (4')	Soluble	Solid	DI Leach	

## Analysis Batch: 110129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58051-20	TH-7 (4')	Soluble	Solid	300.0	110117
880-58051-21	TH-8 (1')	Soluble	Solid	300.0	110117
880-58051-22	TH-8 (4')	Soluble	Solid	300.0	110117
880-58051-23	TH-9 (1')	Soluble	Solid	300.0	110117
880-58051-24	TH-9 (4')	Soluble	Solid	300.0	110117
880-58051-25	TH-10 (1')	Soluble	Solid	300.0	110117
880-58051-26	TH-10 (4')	Soluble	Solid	300.0	110117
880-58051-27	TH-11 (1')	Soluble	Solid	300.0	110117
880-58051-28	TH-11 (4')	Soluble	Solid	300.0	110117
MB 880-110117/1-A	Method Blank	Soluble	Solid	300.0	110117
LCS 880-110117/2-A	Lab Control Sample	Soluble	Solid	300.0	110117
LCSD 880-110117/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	110117
880-58051-20 MS	TH-7 (4')	Soluble	Solid	300.0	110117
880-58051-20 MSD	TH-7 (4')	Soluble	Solid	300.0	110117

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### Lab Chronicle

Client: Crain Environmental  
 Project/Site: Hale State #4

Job ID: 880-58051-1  
 SDG: Lea Co, NM

**Client Sample ID: TH-1 (1')**

**Lab Sample ID: 880-58051-1**

Date Collected: 05/09/25 09:40

Matrix: Solid

Date Received: 05/13/25 11:11

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	110055	05/13/25 12:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110086	05/15/25 00:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110211	05/15/25 00:32	SM	EET MID
Total/NA	Analysis	8015 NM		1			110136	05/15/25 02:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	110069	05/13/25 14:52	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110094	05/15/25 02:02	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	110106	05/14/25 09:51	SI	EET MID
Soluble	Analysis	300.0		20			110108	05/14/25 11:45	CH	EET MID

**Client Sample ID: TH-1 (2')**

**Lab Sample ID: 880-58051-2**

Date Collected: 05/09/25 09:42

Matrix: Solid

Date Received: 05/13/25 11:11

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.21 g	5 mL	110055	05/13/25 12:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110086	05/15/25 00:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110211	05/15/25 00:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			110136	05/15/25 02:17	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	110069	05/13/25 14:52	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110094	05/15/25 02:17	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	110106	05/14/25 09:51	SI	EET MID
Soluble	Analysis	300.0		5			110108	05/14/25 11:50	CH	EET MID

**Client Sample ID: TH-1 (3')**

**Lab Sample ID: 880-58051-3**

Date Collected: 05/09/25 09:45

Matrix: Solid

Date Received: 05/13/25 11:11

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	110055	05/13/25 12:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110086	05/15/25 01:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110211	05/15/25 01:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			110136	05/15/25 02:32	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	110069	05/13/25 14:52	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110094	05/15/25 02:32	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	110106	05/14/25 09:51	SI	EET MID
Soluble	Analysis	300.0		10			110108	05/14/25 11:55	CH	EET MID

**Client Sample ID: TH-1 (4')**

**Lab Sample ID: 880-58051-4**

Date Collected: 05/09/25 09:50

Matrix: Solid

Date Received: 05/13/25 11:11

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.72 g	5 mL	110055	05/13/25 12:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110086	05/15/25 01:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110211	05/15/25 01:34	SM	EET MID

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### Lab Chronicle

Client: Crain Environmental  
 Project/Site: Hale State #4

Job ID: 880-58051-1  
 SDG: Lea Co, NM

**Client Sample ID: TH-1 (4')**

**Lab Sample ID: 880-58051-4**

Date Collected: 05/09/25 09:50

Matrix: Solid

Date Received: 05/13/25 11:11

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			110136	05/15/25 02:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	110069	05/13/25 14:52	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110094	05/15/25 02:47	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	110106	05/14/25 09:51	SI	EET MID
Soluble	Analysis	300.0		10			110108	05/14/25 12:00	CH	EET MID

**Client Sample ID: TH-2 (1')**

**Lab Sample ID: 880-58051-5**

Date Collected: 05/09/25 10:50

Matrix: Solid

Date Received: 05/13/25 11:11

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	110055	05/13/25 12:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110086	05/15/25 01:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110211	05/15/25 01:54	SM	EET MID
Total/NA	Analysis	8015 NM		1			110136	05/15/25 03:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	110069	05/13/25 14:52	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110094	05/15/25 03:02	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	110106	05/14/25 09:51	SI	EET MID
Soluble	Analysis	300.0		1			110108	05/14/25 12:16	CH	EET MID

**Client Sample ID: TH-2 (4')**

**Lab Sample ID: 880-58051-6**

Date Collected: 05/09/25 10:55

Matrix: Solid

Date Received: 05/13/25 11:11

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	110055	05/13/25 12:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110086	05/15/25 02:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110211	05/15/25 02:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			110136	05/15/25 03:17	SM	EET MID
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	110069	05/13/25 14:52	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110094	05/15/25 03:17	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	110106	05/14/25 09:51	SI	EET MID
Soluble	Analysis	300.0		1			110108	05/14/25 12:21	CH	EET MID

**Client Sample ID: TH-3 (1')**

**Lab Sample ID: 880-58051-7**

Date Collected: 05/09/25 11:10

Matrix: Solid

Date Received: 05/13/25 11:11

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	110055	05/13/25 12:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110086	05/15/25 02:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110211	05/15/25 02:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			110136	05/15/25 03:34	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	110069	05/13/25 14:52	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110094	05/15/25 03:34	TKC	EET MID

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### Lab Chronicle

Client: Crain Environmental  
 Project/Site: Hale State #4

Job ID: 880-58051-1  
 SDG: Lea Co, NM

**Client Sample ID: TH-3 (1')**  
**Date Collected: 05/09/25 11:10**  
**Date Received: 05/13/25 11:11**

**Lab Sample ID: 880-58051-7**  
**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	110106	05/14/25 09:51	SI	EET MID
Soluble	Analysis	300.0		1			110108	05/14/25 12:26	CH	EET MID

**Client Sample ID: TH-3 (4')**  
**Date Collected: 05/09/25 11:20**  
**Date Received: 05/13/25 11:11**

**Lab Sample ID: 880-58051-8**  
**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	110055	05/13/25 12:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110086	05/15/25 02:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110211	05/15/25 02:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			110136	05/15/25 03:49	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	110069	05/13/25 14:52	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110094	05/15/25 03:49	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	110106	05/14/25 09:51	SI	EET MID
Soluble	Analysis	300.0		1			110108	05/14/25 12:32	CH	EET MID

**Client Sample ID: TH-4 (1')**  
**Date Collected: 05/09/25 13:15**  
**Date Received: 05/13/25 11:11**

**Lab Sample ID: 880-58051-9**  
**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	5035			5.02 g	5 mL	110055	05/13/25 12:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110086	05/15/25 03:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110211	05/15/25 03:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			110136	05/15/25 04:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	110069	05/13/25 14:52	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110094	05/15/25 04:03	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	110106	05/14/25 09:51	SI	EET MID
Soluble	Analysis	300.0		1			110108	05/14/25 12:37	CH	EET MID

**Client Sample ID: TH-4 (4')**  
**Date Collected: 05/09/25 13:20**  
**Date Received: 05/13/25 11:11**

**Lab Sample ID: 880-58051-10**  
**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	110055	05/13/25 12:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110086	05/15/25 03:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110211	05/15/25 03:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			110136	05/15/25 04:33	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	110069	05/13/25 14:52	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110094	05/15/25 04:33	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	110106	05/14/25 09:51	SI	EET MID
Soluble	Analysis	300.0		1			110108	05/14/25 12:42	CH	EET MID

Eurofins Midland

### Lab Chronicle

Client: Crain Environmental  
 Project/Site: Hale State #4

Job ID: 880-58051-1  
 SDG: Lea Co, NM

**Client Sample ID: TH-5 (1')**

**Lab Sample ID: 880-58051-11**

**Date Collected: 05/09/25 15:25**

**Matrix: Solid**

**Date Received: 05/13/25 11:11**

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	110055	05/13/25 12:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110086	05/15/25 05:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110211	05/15/25 05:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			110136	05/15/25 04:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	110069	05/13/25 14:52	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110094	05/15/25 04:48	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	110106	05/14/25 09:51	SI	EET MID
Soluble	Analysis	300.0		1			110108	05/14/25 12:57	CH	EET MID

**Client Sample ID: TH-5 (4')**

**Lab Sample ID: 880-58051-12**

**Date Collected: 05/09/25 15:30**

**Matrix: Solid**

**Date Received: 05/13/25 11:11**

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	110055	05/13/25 12:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110086	05/15/25 05:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110211	05/15/25 05:32	SM	EET MID
Total/NA	Analysis	8015 NM		1			110136	05/15/25 05:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	110069	05/13/25 14:52	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110094	05/15/25 05:02	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	110106	05/14/25 09:51	SI	EET MID
Soluble	Analysis	300.0		1			110108	05/14/25 13:03	CH	EET MID

**Client Sample ID: TH-6 (1')**

**Lab Sample ID: 880-58051-13**

**Date Collected: 05/09/25 16:00**

**Matrix: Solid**

**Date Received: 05/13/25 11:11**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	110055	05/13/25 12:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110086	05/15/25 05:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110211	05/15/25 05:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			110136	05/15/25 05:18	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	110069	05/13/25 14:52	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110094	05/15/25 05:18	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	110106	05/14/25 09:51	SI	EET MID
Soluble	Analysis	300.0		20			110108	05/14/25 13:18	CH	EET MID

**Client Sample ID: TH-6 (2')**

**Lab Sample ID: 880-58051-14**

**Date Collected: 05/09/25 16:02**

**Matrix: Solid**

**Date Received: 05/13/25 11:11**

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	110055	05/13/25 12:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110086	05/15/25 06:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110211	05/15/25 06:13	SM	EET MID

Eurofins Midland

### Lab Chronicle

Client: Crain Environmental  
 Project/Site: Hale State #4

Job ID: 880-58051-1  
 SDG: Lea Co, NM

**Client Sample ID: TH-6 (2')**

**Lab Sample ID: 880-58051-14**

Date Collected: 05/09/25 16:02

Matrix: Solid

Date Received: 05/13/25 11:11

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			110136	05/15/25 05:32	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	110069	05/13/25 14:52	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110094	05/15/25 05:32	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	110106	05/14/25 09:51	SI	EET MID
Soluble	Analysis	300.0		10			110108	05/14/25 13:23	CH	EET MID

**Client Sample ID: TH-6 (3')**

**Lab Sample ID: 880-58051-15**

Date Collected: 05/09/25 16:03

Matrix: Solid

Date Received: 05/13/25 11:11

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	110055	05/13/25 12:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110086	05/15/25 06:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110211	05/15/25 06:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			110136	05/15/25 05:49	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	110069	05/13/25 14:52	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110094	05/15/25 05:49	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	110106	05/14/25 09:51	SI	EET MID
Soluble	Analysis	300.0		1			110108	05/14/25 13:29	CH	EET MID

**Client Sample ID: TH-6 (4')**

**Lab Sample ID: 880-58051-16**

Date Collected: 05/09/25 16:05

Matrix: Solid

Date Received: 05/13/25 11:11

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	110055	05/13/25 12:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110086	05/15/25 06:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110211	05/15/25 06:54	SM	EET MID
Total/NA	Analysis	8015 NM		1			110136	05/15/25 06:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	110069	05/13/25 14:52	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110094	05/15/25 06:03	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	110106	05/14/25 09:51	SI	EET MID
Soluble	Analysis	300.0		5			110108	05/14/25 13:34	CH	EET MID

**Client Sample ID: TH-7 (1')**

**Lab Sample ID: 880-58051-17**

Date Collected: 05/12/25 14:20

Matrix: Solid

Date Received: 05/13/25 11:11

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	110055	05/13/25 12:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110086	05/15/25 07:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110211	05/15/25 07:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			110136	05/15/25 06:19	SM	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	110069	05/13/25 14:52	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110094	05/15/25 06:19	TKC	EET MID

Eurofins Midland

### Lab Chronicle

Client: Crain Environmental  
 Project/Site: Hale State #4

Job ID: 880-58051-1  
 SDG: Lea Co, NM

**Client Sample ID: TH-7 (1')**

**Lab Sample ID: 880-58051-17**

Date Collected: 05/12/25 14:20

Matrix: Solid

Date Received: 05/13/25 11:11

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	110106	05/14/25 09:51	SI	EET MID
Soluble	Analysis	300.0		20			110108	05/14/25 13:39	CH	EET MID

**Client Sample ID: TH-7 (2')**

**Lab Sample ID: 880-58051-18**

Date Collected: 05/12/25 14:21

Matrix: Solid

Date Received: 05/13/25 11:11

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	110055	05/13/25 12:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110086	05/15/25 07:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110211	05/15/25 07:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			110136	05/15/25 06:34	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	110069	05/13/25 14:52	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110094	05/15/25 06:34	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	110106	05/14/25 09:51	SI	EET MID
Soluble	Analysis	300.0		10			110108	05/14/25 13:44	CH	EET MID

**Client Sample ID: TH-7 (3')**

**Lab Sample ID: 880-58051-19**

Date Collected: 05/12/25 14:23

Matrix: Solid

Date Received: 05/13/25 11:11

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	110055	05/13/25 12:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110086	05/15/25 07:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110211	05/15/25 07:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			110136	05/14/25 10:28	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	110070	05/13/25 14:57	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110100	05/14/25 10:28	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	110106	05/14/25 09:51	SI	EET MID
Soluble	Analysis	300.0		1			110108	05/14/25 13:49	CH	EET MID

**Client Sample ID: TH-7 (4')**

**Lab Sample ID: 880-58051-20**

Date Collected: 05/12/25 14:25

Matrix: Solid

Date Received: 05/13/25 11:11

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	110055	05/13/25 12:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110086	05/15/25 08:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110211	05/15/25 08:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			110136	05/14/25 14:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	110070	05/13/25 14:57	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110100	05/14/25 14:02	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	110117	05/14/25 11:17	SA	EET MID
Soluble	Analysis	300.0		1			110129	05/14/25 14:05	CH	EET MID

Eurofins Midland

### Lab Chronicle

Client: Crain Environmental  
 Project/Site: Hale State #4

Job ID: 880-58051-1  
 SDG: Lea Co, NM

**Client Sample ID: TH-8 (1')**

**Lab Sample ID: 880-58051-21**

**Date Collected: 05/12/25 14:45**

**Matrix: Solid**

**Date Received: 05/13/25 11:11**

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	110248	05/15/25 18:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110184	05/15/25 22:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110211	05/15/25 22:34	SM	EET MID
Total/NA	Analysis	8015 NM		1			110136	05/14/25 14:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	110070	05/13/25 14:57	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110100	05/14/25 14:18	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	110117	05/14/25 11:17	SA	EET MID
Soluble	Analysis	300.0		1			110129	05/14/25 14:27	CH	EET MID

**Client Sample ID: TH-8 (4')**

**Lab Sample ID: 880-58051-22**

**Date Collected: 05/12/25 14:55**

**Matrix: Solid**

**Date Received: 05/13/25 11:11**

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	110248	05/15/25 18:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110184	05/15/25 22:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110211	05/15/25 22:54	SM	EET MID
Total/NA	Analysis	8015 NM		1			110136	05/14/25 14:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	110070	05/13/25 14:57	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110100	05/14/25 14:34	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	110117	05/14/25 11:17	SA	EET MID
Soluble	Analysis	300.0		1			110129	05/14/25 14:34	CH	EET MID

**Client Sample ID: TH-9 (1')**

**Lab Sample ID: 880-58051-23**

**Date Collected: 05/12/25 15:10**

**Matrix: Solid**

**Date Received: 05/13/25 11:11**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	110130	05/15/25 12:07	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110186	05/15/25 21:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110211	05/15/25 21:00	SM	EET MID
Total/NA	Analysis	8015 NM		1			110136	05/14/25 14:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	110070	05/13/25 14:57	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110100	05/14/25 14:51	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	110117	05/14/25 11:17	SA	EET MID
Soluble	Analysis	300.0		1			110129	05/14/25 14:41	CH	EET MID

**Client Sample ID: TH-9 (4')**

**Lab Sample ID: 880-58051-24**

**Date Collected: 05/12/25 15:20**

**Matrix: Solid**

**Date Received: 05/13/25 11:11**

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	110248	05/15/25 18:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110184	05/15/25 23:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110211	05/15/25 23:15	SM	EET MID

Eurofins Midland

### Lab Chronicle

Client: Crain Environmental  
 Project/Site: Hale State #4

Job ID: 880-58051-1  
 SDG: Lea Co, NM

**Client Sample ID: TH-9 (4')**

**Lab Sample ID: 880-58051-24**

**Date Collected: 05/12/25 15:20**

**Matrix: Solid**

**Date Received: 05/13/25 11:11**

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			110136	05/14/25 15:08	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	110070	05/13/25 14:57	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110100	05/14/25 15:08	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	110117	05/14/25 11:17	SA	EET MID
Soluble	Analysis	300.0		1			110129	05/14/25 14:48	CH	EET MID

**Client Sample ID: TH-10 (1')**

**Lab Sample ID: 880-58051-25**

**Date Collected: 05/12/25 15:45**

**Matrix: Solid**

**Date Received: 05/13/25 11:11**

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	110248	05/15/25 18:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110184	05/15/25 23:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110211	05/15/25 23:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			110136	05/14/25 15:24	SM	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	110070	05/13/25 14:57	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110100	05/14/25 15:24	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	110117	05/14/25 11:17	SA	EET MID
Soluble	Analysis	300.0		1			110129	05/14/25 15:09	CH	EET MID

**Client Sample ID: TH-10 (4')**

**Lab Sample ID: 880-58051-26**

**Date Collected: 05/12/25 15:55**

**Matrix: Solid**

**Date Received: 05/13/25 11:11**

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	110248	05/15/25 18:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110184	05/15/25 23:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110211	05/15/25 23:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			110136	05/14/25 15:41	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	110070	05/13/25 14:57	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110100	05/14/25 15:41	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	110117	05/14/25 11:17	SA	EET MID
Soluble	Analysis	300.0		1			110129	05/14/25 15:16	CH	EET MID

**Client Sample ID: TH-11 (1')**

**Lab Sample ID: 880-58051-27**

**Date Collected: 05/12/25 16:10**

**Matrix: Solid**

**Date Received: 05/13/25 11:11**

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	110248	05/15/25 18:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110184	05/16/25 00:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110211	05/16/25 00:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			110136	05/14/25 15:57	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	110070	05/13/25 14:57	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110100	05/14/25 15:57	TKC	EET MID

Eurofins Midland

# Lab Chronicle

Client: Crain Environmental  
 Project/Site: Hale State #4

Job ID: 880-58051-1  
 SDG: Lea Co, NM

**Client Sample ID: TH-11 (1')**  
**Date Collected: 05/12/25 16:10**  
**Date Received: 05/13/25 11:11**

**Lab Sample ID: 880-58051-27**  
**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	110117	05/14/25 11:17	SA	EET MID
Soluble	Analysis	300.0		1			110129	05/14/25 15:23	CH	EET MID

**Client Sample ID: TH-11 (4')**  
**Date Collected: 05/12/25 16:20**  
**Date Received: 05/13/25 11:11**

**Lab Sample ID: 880-58051-28**  
**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	110248	05/15/25 18:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110184	05/16/25 00:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110211	05/16/25 00:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			110136	05/14/25 16:14	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	110070	05/13/25 14:57	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110100	05/14/25 16:14	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	110117	05/14/25 11:17	SA	EET MID
Soluble	Analysis	300.0		1			110129	05/14/25 15:31	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: Hale State #4

Job ID: 880-58051-1  
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

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# Method Summary

Client: Crain Environmental  
Project/Site: Hale State #4

Job ID: 880-58051-1  
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: Hale State #4

Job ID: 880-58051-1  
 SDG: Lea Co, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-58051-1	TH-1 (1')	Solid	05/09/25 09:40	05/13/25 11:11
880-58051-2	TH-1 (2')	Solid	05/09/25 09:42	05/13/25 11:11
880-58051-3	TH-1 (3')	Solid	05/09/25 09:45	05/13/25 11:11
880-58051-4	TH-1 (4')	Solid	05/09/25 09:50	05/13/25 11:11
880-58051-5	TH-2 (1')	Solid	05/09/25 10:50	05/13/25 11:11
880-58051-6	TH-2 (4')	Solid	05/09/25 10:55	05/13/25 11:11
880-58051-7	TH-3 (1')	Solid	05/09/25 11:10	05/13/25 11:11
880-58051-8	TH-3 (4')	Solid	05/09/25 11:20	05/13/25 11:11
880-58051-9	TH-4 (1')	Solid	05/09/25 13:15	05/13/25 11:11
880-58051-10	TH-4 (4')	Solid	05/09/25 13:20	05/13/25 11:11
880-58051-11	TH-5 (1')	Solid	05/09/25 15:25	05/13/25 11:11
880-58051-12	TH-5 (4')	Solid	05/09/25 15:30	05/13/25 11:11
880-58051-13	TH-6 (1')	Solid	05/09/25 16:00	05/13/25 11:11
880-58051-14	TH-6 (2')	Solid	05/09/25 16:02	05/13/25 11:11
880-58051-15	TH-6 (3')	Solid	05/09/25 16:03	05/13/25 11:11
880-58051-16	TH-6 (4')	Solid	05/09/25 16:05	05/13/25 11:11
880-58051-17	TH-7 (1')	Solid	05/12/25 14:20	05/13/25 11:11
880-58051-18	TH-7 (2')	Solid	05/12/25 14:21	05/13/25 11:11
880-58051-19	TH-7 (3')	Solid	05/12/25 14:23	05/13/25 11:11
880-58051-20	TH-7 (4')	Solid	05/12/25 14:25	05/13/25 11:11
880-58051-21	TH-8 (1')	Solid	05/12/25 14:45	05/13/25 11:11
880-58051-22	TH-8 (4')	Solid	05/12/25 14:55	05/13/25 11:11
880-58051-23	TH-9 (1')	Solid	05/12/25 15:10	05/13/25 11:11
880-58051-24	TH-9 (4')	Solid	05/12/25 15:20	05/13/25 11:11
880-58051-25	TH-10 (1')	Solid	05/12/25 15:45	05/13/25 11:11
880-58051-26	TH-10 (4')	Solid	05/12/25 15:55	05/13/25 11:11
880-58051-27	TH-11 (1')	Solid	05/12/25 16:10	05/13/25 11:11
880-58051-28	TH-11 (4')	Solid	05/12/25 16:20	05/13/25 11:11

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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

Environment Testing  
 Xenco



880-58051 Chain of Custody

www.xenco.com Page 1 of 3

Project Manager: <i>Cindy Crain</i>	Bill to: (if different)	<i>Nicole Cocornell</i>	
Company Name: <i>Crain Environmental</i>	Company Name:	<i>BXP</i>	
Address: <i>2925 E. 17th St.</i>	Address:	<i>11757 Katy Fwy, Ste. 475</i>	
City, State ZIP: <i>Dallas, TX 75201</i>	City, State ZIP:	<i>Houston, TX 77079</i>	
Phone: <i>(575) 441-7244</i>	Email:	<i>Cindy.Crain@gmail.com</i>	

Project Name: <i>Hale State #4</i>	Turn Around	Pres. Code	ANALYSIS REQUEST	Preservative Codes
Project Number: <i>-</i>	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush			
Project Location: <i>Lpa Co. NM</i>	Due Date:			
Sampler's Name: <i>Lindy Crain</i>	TAT starts the day received by the lab, if received by 4:30pm			
PO #:				

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters	Pres. Code
TH-1 (1)	S	5/9/25	0940	1'	C	1		
TH-1 (2)			0942	2'				
TH-1 (3)			0945	3'				
TH-1 (4)			0950	4'				
TH-2 (1)			1050	1'				
TH-2 (4)			1055	4'				
TH-3 (1)			1110	1'				
TH-3 (4)			1120	4'				
TH-4 (1)			1315	1'				
TH-4 (4)			1320	4'				

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

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
<i>Cindy Crain</i>	<i>[Signature]</i>				

Revised Date: 08/25/2020 Rev. 2020.2







### Login Sample Receipt Checklist

Client: Crain Environmental

Job Number: 880-58051-1

SDG Number: Lea Co, NM

**Login Number: 58051**

**List Number: 1**

**Creator: Vasquez, Julisa**

**List Source: Eurofins Midland**

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

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## Appendix D: Photographic Documentation

Appendix D  
Hale State #004 - Photographic Log



View to signage (5/9/25).



View to W of tank battery (5/9/25).



View to N of tank battery containment (5/9/25).



View to NW of tank battery containment (5/9/25).



View to E of tank battery containment (5/9/25).



View to SW of TH-1 installation (5/9/25).



View to SW of TH-1 (5/9/25).



View to NE of TH-2 (5/9/25).

Appendix D  
Hale State #004 - Photographic Log



View to NE of TH-3 (5/9/25).



View to N of TH-4 (5/9/25).



View to W of TH-5 (5/9/25).



View to W of TH-6 (5/9/25).



View to S of TH-7 (5/12/25).



View to SW of TH-8 (5/12/25).



View to SW of TH-9 (5/12/25).



View to NW of TH-10 and TH-11 (5/12/25).

Appendix D  
Hale State #004 - Photographic Log



View to NW of TH-10 (5/12/25).



View to SE of TH-10 (5/12/25).



View to S of TH-11 (5/12/25).



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**Appendix E - NMSLO Cultural Resources Cover Sheet**



Stephanie Garcia Richard, Commissioner of Public Lands  
State of New Mexico

### NMSLO Cultural Resources Cover Sheet Exhibit

**NMCRIS Activity Number:**

(if applicable)

**Exhibit Type** (select one)

**ARMS Inspection/Review** - Summarize the results (select one):

- (A) The entire area of potential effect or project area has been previously surveyed to current standards and **no cultural properties** were found within the survey area.
- (B) The entire area of potential effect or project area has been previously surveyed to current standards and **cultural properties were found** within the survey area.
- (C) The entire area of potential effect or project area has **not** been previously surveyed or **has not been surveyed** to current standards. A complete archaeological survey will be conducted and submitted for review.

**Archaeological Survey**

**Findings:**

**Negative** - No further archaeological review is required.

**Positive** - Have avoidance and protection measures been devised? Select one:

**Comments:**

**Project Details:**

NMSLO Lease Number (if available):

Cultural Resources Consultant:

Project Proponent (Applicant):

Project Title/Description:

**Project Location:**

County(ies):

PLSS/Section/Township/Range):

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**For NMSLO Agency Use Only:**

NMSLO Lease Number:

Acknowledgment-Only:

Lease Analyst:

Date Exhibit Routed to Cultural Resources Office:

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*No person may alter the wording of the questions or layout of the cover sheet. The completion of this cover sheet by itself does not authorize anyone to engage in new surface disturbing activity before the review and approvals required by the Cultural Properties Protections Rule.*

Form Revised 12 22



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## Appendix F - Biological Desktop Review



## United States Department of the Interior



FISH AND WILDLIFE SERVICE  
New Mexico Ecological Services Field Office  
2105 Osuna Road Ne  
Albuquerque, NM 87113-1001  
Phone: (505) 346-2525 Fax: (505) 346-2542

In Reply Refer To:  
Project Code: 2025-0078921  
Project Name: Hale State #4

04/04/2025 19:27:37 UTC

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

Thank you for your recent request for information on federally listed species and important wildlife habitats that may occur in your project area. The U.S. Fish and Wildlife Service (Service) has responsibility for certain species of New Mexico wildlife under the Endangered Species Act (ESA) of 1973 as amended (16 USC 1531 et seq.), the Migratory Bird Treaty Act as amended (16 USC 701-715), and the Bald and Golden Eagle Protection Act as amended (16 USC 668-668(c)). We are providing the following guidance to assist you in determining which federally imperiled species may or may not occur within your project area, and to recommend some conservation measures that can be included in your project design.

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the ESA of 1973, as amended (16 U.S.C. 1531 et seq.).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the ESA, the accuracy of this species list should be verified after 90 days. The Service recommends that verification be completed by visiting the IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the IPaC system by completing the same process used to receive the enclosed list.

The purpose of the ESA is to provide a means whereby threatened and endangered species and

the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the ESA and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (NEPA; 42 USC 4332(2) (c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at <https://www.fws.gov/sites/default/files/documents/endangered-species-consultation-handbook.pdf>.

### **Candidate Species and Other Sensitive Species**

A list of candidate and other sensitive species in your area is also attached. Candidate species and other sensitive species are species that have no legal protection under the ESA, although we recommend that candidate and other sensitive species be included in your surveys and considered for planning purposes. The Service monitors the status of these species. If significant declines occur, these species could potentially be listed. Therefore, actions that may contribute to their decline should be avoided.

Lists of sensitive species including State-listed endangered and threatened species are compiled by New Mexico State agencies. These lists, along with species information, can be found at the following websites.

Biota Information System of New Mexico (BISON-M): [www.bison-m.org](http://www.bison-m.org)

New Mexico State Forestry. The New Mexico Endangered Plant Program:  
<https://www.emnrd.nm.gov/sfd/rare-plants/>

New Mexico Rare Plant Technical Council, New Mexico Rare Plants: [nmrareplants.unm.edu](http://nmrareplants.unm.edu)

Natural Heritage New Mexico, online species database: [nhnm.unm.edu](http://nhnm.unm.edu)

## WETLANDS AND FLOODPLAINS

Under Executive Orders 11988 and 11990, Federal agencies are required to minimize the destruction, loss, or degradation of wetlands and floodplains, and preserve and enhance their natural and beneficial values. These habitats should be conserved through avoidance, or mitigated to ensure that there would be no net loss of wetlands function and value.

We encourage you to use the National Wetland Inventory (NWI) maps in conjunction with ground-truthing to identify wetlands occurring in your project area. The Service's NWI program website, [www.fws.gov/wetlands/Data/Mapper.html](http://www.fws.gov/wetlands/Data/Mapper.html), integrates digital map data with other resource information. We also recommend you contact the U.S. Army Corps of Engineers for permitting requirements under section 404 of the Clean Water Act if your proposed action could impact floodplains or wetlands.

## MIGRATORY BIRDS

In addition to responsibilities to protect threatened and endangered species under the ESA, there are additional responsibilities under the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA) to protect native birds from project-related impacts. Any activity, intentional or unintentional, resulting in take of migratory birds, including eagles, is prohibited unless otherwise permitted by the Service (50 CFR 10.12 and 16 USC 668(a)). For more information regarding these Acts, see <https://www.fws.gov/program/migratory-bird-permit/what-we-do>.

The MBTA has no provision for allowing take of migratory birds that may be unintentionally killed or injured by otherwise lawful activities. It is the responsibility of the project proponent to comply with these Acts by identifying potential impacts to migratory birds and eagles within applicable NEPA documents (when there is a Federal nexus) or a Bird/Eagle Conservation Plan (when there is no Federal nexus). Proponents should implement conservation measures to avoid or minimize the production of project-related stressors or minimize the exposure of birds and their resources to the project-related stressors. For more information on avian stressors and recommended conservation measures, see <https://www.fws.gov/library/collections/threats-birds>. We also recommend review of the Birds of Conservation Concern list (<https://www.fws.gov/media/birds-conservation-concern-2021>) to fully evaluate the effects to the birds at your site. This list identifies migratory and non-migratory bird species (beyond those already designated as federally threatened or endangered) that represent top conservation priorities for the Service, and are potentially threatened by disturbance, habitat impacts, or other project development activities.

In addition to MBTA and BGEPA, Executive Order 13186: *Responsibilities of Federal Agencies to Protect Migratory Birds*, obligates all Federal agencies that engage in or authorize activities that might affect migratory birds, to minimize those effects and encourage conservation measures that will improve bird populations. Executive Order 13186 thereby provides additional protection for both migratory birds and migratory bird habitat. Please visit <https://www.fws.gov/partner/council-conservation-migratory-birds> for information regarding the implementation of Executive Order 13186.

Project code: 2025-0078921

04/04/2025 19:27:37 UTC

We suggest you contact the New Mexico Department of Game and Fish, and the New Mexico Energy, Minerals, and Natural Resources Department, Forestry Division for information regarding State protected and at-risk species fish, wildlife, and plants.

For further consultation with the Service we recommend submitting inquiries or assessments electronically to our incoming email box at [nmesfo@fws.gov](mailto:nmesfo@fws.gov), where it will be more promptly routed to the appropriate biologist for review.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Code in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List

## OFFICIAL SPECIES LIST

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

**New Mexico Ecological Services Field Office**

2105 Osuna Road Ne

Albuquerque, NM 87113-1001

(505) 346-2525

Project code: 2025-0078921

04/04/2025 19:27:37 UTC

## PROJECT SUMMARY

Project Code: 2025-0078921  
Project Name: Hale State #4  
Project Type: Non-NPL Site Remediation  
Project Description: Soil remediation and reclamation  
Project Location:

The approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@32.79789885,-103.60459801601968,14z>



Counties: Lea County, New Mexico

## ENDANGERED SPECIES ACT SPECIES

There is a total of 3 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries<sup>1</sup>, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

- 
1. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

Project code: 2025-0078921

04/04/2025 19:27:37 UTC

### BIRDS

NAME	STATUS
Lesser Prairie-chicken <i>Tympanuchus pallidicinctus</i> Population: Southern DPS No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/1924">https://ecos.fws.gov/ecp/species/1924</a>	Endangered
Northern Aplomado Falcon <i>Falco femoralis septentrionalis</i> Population: U.S.A (AZ, NM) No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/1923">https://ecos.fws.gov/ecp/species/1923</a>	Experimental Population, Non- Essential

### INSECTS

NAME	STATUS
Monarch Butterfly <i>Danaus plexippus</i> There is <b>proposed</b> critical habitat for this species. Your location does not overlap the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/9743">https://ecos.fws.gov/ecp/species/9743</a>	Proposed Threatened

### CRITICAL HABITATS

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

YOU ARE STILL REQUIRED TO DETERMINE IF YOUR PROJECT(S) MAY HAVE EFFECTS ON ALL ABOVE LISTED SPECIES.

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

General Information  
Phone: (505) 629-6116

Online Phone Directory  
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS

Action 544173

**QUESTIONS**

Operator: BXP Operating, LLC 11757 KATY FREEWAY HOUSTON, TX 77079	OGRID: 329487
	Action Number: 544173
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2515675866
Incident Name	NAPP2515675866 HALE STATE #004 @ 30-025-39785
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received
Incident Well	[30-025-39785] HALE STATE #004

<b>Location of Release Source</b>	
<i>Please answer all the questions in this group.</i>	
Site Name	HALE STATE #004
Date Release Discovered	05/14/2025
Surface Owner	State

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

<b>Nature and Volume of Release</b>	
<i>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.</i>	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Normal Operations   Valve   Produced Water   Released: 46 BBL   Recovered: 40 BBL   Lost: 6 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 544173

**QUESTIONS (continued)**

Operator: BXP Operating, LLC 11757 KATY FREEWAY HOUSTON, TX 77079	OGRID: 329487
	Action Number: 544173
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
Is this a gas only submission (i.e. only significant Mcf values reported)	<b>No, according to supplied volumes this does not appear to be a "gas only" report.</b>
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	<b>Yes</b>
Reasons why this would be considered a submission for a notification of a major release	<b>From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.</b>
<i>With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.</i>	

**Initial Response**

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

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

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

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

I hereby agree and sign off to the above statement	Name: Bianca Guerrero Title: Regulatory manager Email: bguerrero@bxpltd.com Date: 01/18/2026
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QUESTIONS, Page 3

Action 544173

**QUESTIONS (continued)**

Operator: BXP Operating, LLC 11757 KATY FREEWAY HOUSTON, TX 77079	OGRID: 329487
	Action Number: 544173
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**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	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Between 1000 (ft.) and ½ (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 300 and 500 (ft.)
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	Greater than 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 300 and 500 (ft.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between 300 and 500 (ft.)
Did the release impact areas not on an exploration, development, production, or storage site	No

**Remediation Plan**  
*Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.*

Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

**Soil Contamination Sampling:** (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride (EPA 300.0 or SM4500 Cl B)	18400
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	39.4
GRO+DRO (EPA SW-846 Method 8015M)	39.4
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	03/30/2026
On what date will (or did) the final sampling or liner inspection occur	04/27/2026
On what date will (or was) the remediation complete(d)	05/18/2026
What is the estimated surface area (in square feet) that will be reclaimed	3325
What is the estimated volume (in cubic yards) that will be reclaimed	493
What is the estimated surface area (in square feet) that will be remediated	3325
What is the estimated volume (in cubic yards) that will be remediated	493

*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, Page 4

Action 544173

**QUESTIONS (continued)**

Operator: BXP Operating, LLC 11757 KATY FREEWAY HOUSTON, TX 77079	OGRID: 329487
	Action Number: 544173
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**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 <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	fAB000000061 TNM-55-95
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and <b>on-site</b> 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: Bianca Guerrero Title: Regulatory manager Email: bguerrero@bxpltd.com Date: 01/18/2026
--	---

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, Page 5

Action 544173

**QUESTIONS (continued)**

Operator: BXP Operating, LLC 11757 KATY FREEWAY HOUSTON, TX 77079	OGRID: 329487
	Action Number: 544173
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

<b>Deferral Requests Only</b>	
<i>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.</i>	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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Action 544173

**QUESTIONS (continued)**

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	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

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

<b>Remediation Closure Request</b>	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
Requesting a remediation closure approval with this submission	No

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CONDITIONS

Action 544173

**CONDITIONS**

Operator: BXP Operating, LLC 11757 KATY FREEWAY HOUSTON, TX 77079	OGRID: 329487
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	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**CONDITIONS**

Created By	Condition	Condition Date
scott.rodgers	The Remediation Plan is Conditionally Approved. All samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. Floor confirmation samples should be delineated/excavated to meet closure criteria standards for site assessment/characterization/proven depth to water determination. Sidewall samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. Confirmation samples should be collected every 200 ft2. Please include in the closure report, the driller's log for the depth to groundwater determination borehole. All off pad areas must meet reclamation standards set forth in the OCD Spill Rule. The work will need to occur in 90 days after the work plan has been reviewed.	2/12/2026