

Released Volume Calculation

Length	110 feet
Width	45 feet
Thickness	0.5 in

2,475 gal = 59 Est. Total Bbls Released

Volume = L*W*T

Total Released Volume = 2,475 gallons (US, dry)
59 Bbls

Release volume is unknown but is estimated based on size of barren area.



Revised Remediation Summary and Closure Request

September 14, 2025

**Bagley SWD #004, Area 3
API 30-025-01015
Historical Produced Water Release
Incident No. nAPP2509978375
Lea County, New Mexico**

Prepared For:

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

Prepared By:

Crain Environmental
2925 East 17th Street
Odessa, Texas 79761

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

Cynthia K. Crain, P.G.



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1.0 Introduction

Crain Environmental (CE), on behalf of BXP Operating, LLC (BXP), has prepared this Revised Remediation Summary and Closure Report for the produced water release at Bagley SWD #004, Area 3 (Site), located in in Unit Letter N, Section 35, Township 11 South, Range 33 East, Lea County, New Mexico, at Global Positioning Coordinates (GPS) 33.317714, -103.587766. The property surface rights are owned by the State of New Mexico.

The Bagley SWD #004 is located approximately 17 miles northwest of Tatum, New Mexico, in an area of oil and gas activity, cattle grazing, and sparse vegetation.

The site can be accessed by traveling west from Tatum, New Mexico on Highway 380 for 15.23 miles to County Road 457. Travel south on 457 for 1.23 miles and west for 0.82 miles to Bagley Field Road. Continue west on Bagley Field Road for 0.64 miles to the site on the north side of the road. There are no locked gates or other access issues. Figure 1 shows the site location.

2.0 Background

On October 21, 2024, BXP received an email from the New Mexico State Land Office (NMSLO) Environmental Compliance Office (ECO) stating there was an open Incident (#nDEV1776) from 1993 with the New Mexico Oil Conservation Division (NMOCD), and an NMOCD compliance inspection (cEZB2328943265) from October 2023 that indicated spills and releases at the site that had not been resolved. A Site Assessment Workplan was submitted to the ECO on October 28, 2024, and was approved on November 6, 2024. Site assessment activities were conducted in the tank battery and eight barren areas of the Lease on November 20, 2024, and sample results were submitted to ECO via email on December 16, 2024.

Notifications of Release (NOR) for each of the nine areas were submitted to the NMOCD on April 9, 2025, and the following Incident numbers were assigned:

- nAPP2509976410 (Area 1)
- nAPP2509977675 (Area 2)
- nAPP2509978375 (Area 3)
- nDEV1776 (Area 4)
- nAPP2509978939 (Area 5)
- nAPP2509979883 (Area 6)
- nAPP2509980372 (Area 7)
- nAPP2509980836 (Area 8)
- nAPP2509974572 (Area 9)



Figure 2 shows the areas of investigation with the respective Incident numbers.

A Site Characterization Report and Remediation Workplan was submitted to the NMOCD on April 10, 2025, for Incident #nDEV1776, and was denied on April 22, 2025, for the following reasons:

- Horizontal delineation submitted was incomplete and did not meet requirements of 19.15.29.11 NMAC.
- Incident nDEV1776 (Area 4) has not been fully delineated, horizontally or vertically.
- The current samples within Area 4, nDEV1776, do not meet 19.15.29.11 NMAC for horizontal and vertical delineation.
- Deferral request for nDEV1776 (Area 4) will not be granted. Depth to groundwater is at 43 feet.
- If P&A activities are going to impact remediation activities for nDEV1776, Area 4, address how activities will be coordinated in the remediation workplan. Provide a detailed timeline when remediation is to begin and conclude.
- Submit a remediation workplan via the OCD permitting portal by July 21, 2025.

A Revised Site Characterization Report and Remediation Workplan was prepared in accordance with 19.15.29.11 New Mexico Administrative Code (NMAC) and was submitted to the NMOCD on April 26, 2025. As horizontal and vertical delineation activities during excavation/remediation activities are commonly approved by the NMOCD, BXP elected to conduct horizontal and vertical delineation activities during excavation/remediation. As BXP does not have a definite timeline for plugging and abandonment (P&A) of the Bagley SWD #004 well, and the tank battery is being used for other wells in addition to the Bagley SWD #004, references to P&A and deferral of remediation at the tank battery were removed from the Revised Workplan (Workplan).

As remediation of each Incident # included in the Workplan will be completed in sequential order, each has the same Closure Criteria, remediation at each will be conducted by dig and haul methods, and horizontal and vertical delineation will be completed at each Incident during excavation/remediation, all Incidents associated with the Bagley SWD #004 were included in the Revised Site Characterization Report and Remediation Workplan, and on April 26, 2025, the Revised Workplan was submitted to the NMOCD for each Incident listed above.

The Revised Workplan was approved by the NMOCD on May 6, 2025, and reports were requested to be submitted by August 4, 2025.

A Remediation Summary and Closure Report for Area 3, Incident #nAPP2509978375, was submitted to the NMOCD on August 3, 2025, and was rejected on August 19, 2025, for the following reason:



- Remediation closure denied for the following reason: On pg. 6 of the Remediation Summary it states: "Following approval of the Revised Site Characterization Report and Remediation Workplan on May 6, 2025, excavation was conducted around previously collected (on November 20, 2024) sample point S-13 until five-point composite samples were collected from the bottom (B-1 through B-3) and sidewalls (S-1 through S-6) of the excavation on June 24, 2025." Figure 7 shows the location of the 6 sidewall samples. However, Table 1 and the laboratory data attached show evidence of only 4 sidewall samples collected. Explain and update. Provide photographic evidence when collecting the missing sidewall samples. Submit updated remediation closure report to the OCD by 9/18/25.

This Revised Site Characterization Report and Remediation Workplan has been prepared in accordance with 19.15.29.11 NMAC and is being submitted prior to the NMOCD due date.

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; however, each well was drilled in the 1950's. CE was able to locate well L-01327 and measured a depth to groundwater of 43.1' below ground surface (bgs) on March 28, 2025. Based on the depth to groundwater in well L-01327, the most stringent NMOCD Closure Criteria will apply to each Incident at the Site. Figure 3 provides a wellhead protection area map that shows the location of water wells within a 0.5-mile radius of the Site, as recorded with NMOSE. NMOSE water well records with depth to groundwater listed are provided in Appendix A.

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.
 - o 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).
 - o The aerial map (Figure 3) indicates there is not a lakebed, sinkhole or playa lake located within 200 feet of the Site.
- Within 300 feet from an occupied permanent residence, school, hospital, institution or church.
 - o 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.
 - o 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.
 - o 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.
 - o 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.
 - o Based on the property and other records reviewed by CE, the Site is not located within an area overlying a subsurface mine.

3.3 Wetlands, Floodplain, and Karst Geology

A review of the United States Fish and Wildlife Service (USFWS) wetlands map indicated the Site is not located within 300 feet of a wetland. The 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 well was drilled in the 1950's. CE was able to locate well L-01327 (located 1,279 feet west of Bagley SWD #004) and measured a depth to groundwater of 43.1' bgs on March 28, 2025.

Based on the depth of groundwater in well L-01327, the most stringent NMOCD Closure Criteria associated with groundwater depths of less than 50 feet bgs will apply to each Incident at the Bagley SWD #004. A summary of the Closure Criteria is provided in the table below and in Table 1. Figure 3 provides a wellhead protection area map that shows the location of water wells within a 0.5-mile radius of the Site, as recorded with NMOSE. NMOSE water well records with depth to groundwater listed are provided in Appendix A.



NMOCD Closure Criteria

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

Notes: NA = not applicable

bgs = below ground surface

mg/kg = milligrams per kilogram

GRO = gasoline range organics

DRO = diesel range organics

MRO = motor oil range organics

TPH = total petroleum hydrocarbons

BTEX = benzene, toluene, ethylbenzene, and total xylenes

Green highlighted cells denote applicable Closure Criteria.

4.0 Site Assessment/Characterization Results

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

4.1 Site Map

As required by 19.15.29.11 NMAC, a scaled diagram showing significant Site infrastructure, sample point locations, and known subsurface features such as utilities are provided on Figures 2 and 7.

4.2 Depth to Groundwater

As discussed in Section 3.1, a depth to groundwater of 43.1' bgs was measured in well L-01327 (located 1,279 feet west of Bagley SWD #004) on March 28, 2025.

4.3 Wellhead Protection Area

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



4.4 Distance to Nearest Significant Watercourse

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

4.5 Summary of Remediation Activities

As sample locations include areas located in previously disturbed areas, compliance with the Cultural Properties Protection (CPP) rule will apply, and an Archaeological Survey has been conducted. The Survey Cover Sheet for NMCRIIS Activity Number 157575 is included as Appendix B.

A biological desktop review was conducted, and no critical habitats were found in proximity to the subject Site. A copy of the U.S. Fish & Wildlife Service database review is included as Appendix C.

Following approval of the *Revised Site Characterization Report and Remediation Workplan* on May 6, 2025, excavation was conducted around previously collected (on November 20, 2024) sample point S-13 until five-point composite samples were collected from the bottom (B-1 through B-3) and sidewalls (S-1 through S-4) of the excavation on June 24, 2025.

Upon rejection of the Site Characterization Report and Remediation Workplan submitted on August 3, 2025, it was discovered that sidewall samples S-5 and S-6 were not submitted to the laboratory for analysis.

On August 22, 2025, five-point composite samples were collected from the sidewalls (S-5 and S-6).

All confirmation 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.

Table 1 provides a summary of laboratory results. Figure 7 shows the sample locations. Appendix D provides a copy of the laboratory reports and chain of custody documentation. Appendix E 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 test method



detection limits or the Closure Criteria in each sample, and concentrations of chlorides were reported below the Closure Criteria in each confirmation sample.

The dimensions of the excavation measured 30' x 19' (to a depth of 3' bgs) and covered a surface area of 570 square feet (ft²).

All affected soil has been excavated, and 80 cubic yards (cy) of soil were hauled to GM, Inc. for disposal on June 20, 2025. Waste Manifests are provided in Appendix F.

4.6 Laboratory Analytical Data Quality Assurance/Quality Control Results

Laboratory data in Report Numbers 880-59787-1 and 880-61881-1 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 D.

5.0 Closure Request

A total of 80 cy of soil was excavated and hauled to disposal at GM, Inc. All confirmation samples collected from the bottom and sidewalls of the excavations reported TPH, Benzene, BTEX, and chloride concentrations below the NMOCD Closure Criteria. The dimensions of the final excavation measured 30' x 19' and covered a surface area of 570 ft².

Upon NMOCD and ECO approval of this Closure Report, the excavation will be backfilled to grade with non-impacted similar material obtained from a landowner pit. A five-point composite sample will be collected from the backfill material, and will be analyzed for 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.

Seeding of the backfilled excavation will be conducted during the next favorable growing season. The remediated areas will be re-seeded by seed drill method using the NMSLO Coarse Seed Mix (planted in the amount specified in the pounds live seed (PLS) per acre), and fresh water will be applied for two consecutive weeks following re-seeding.

BXP respectfully requests the closure of Incident #nAPP2509978375.



6.0 Distribution

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

Copy 2: Environmental Compliance Office
ECO@nmslo.gov



TABLE

Table 1
Summary of Soil Sample Analyses
BXP Operating, LLC
Bagley SWD #004
Area 3 - Incident #nAPP2509978375

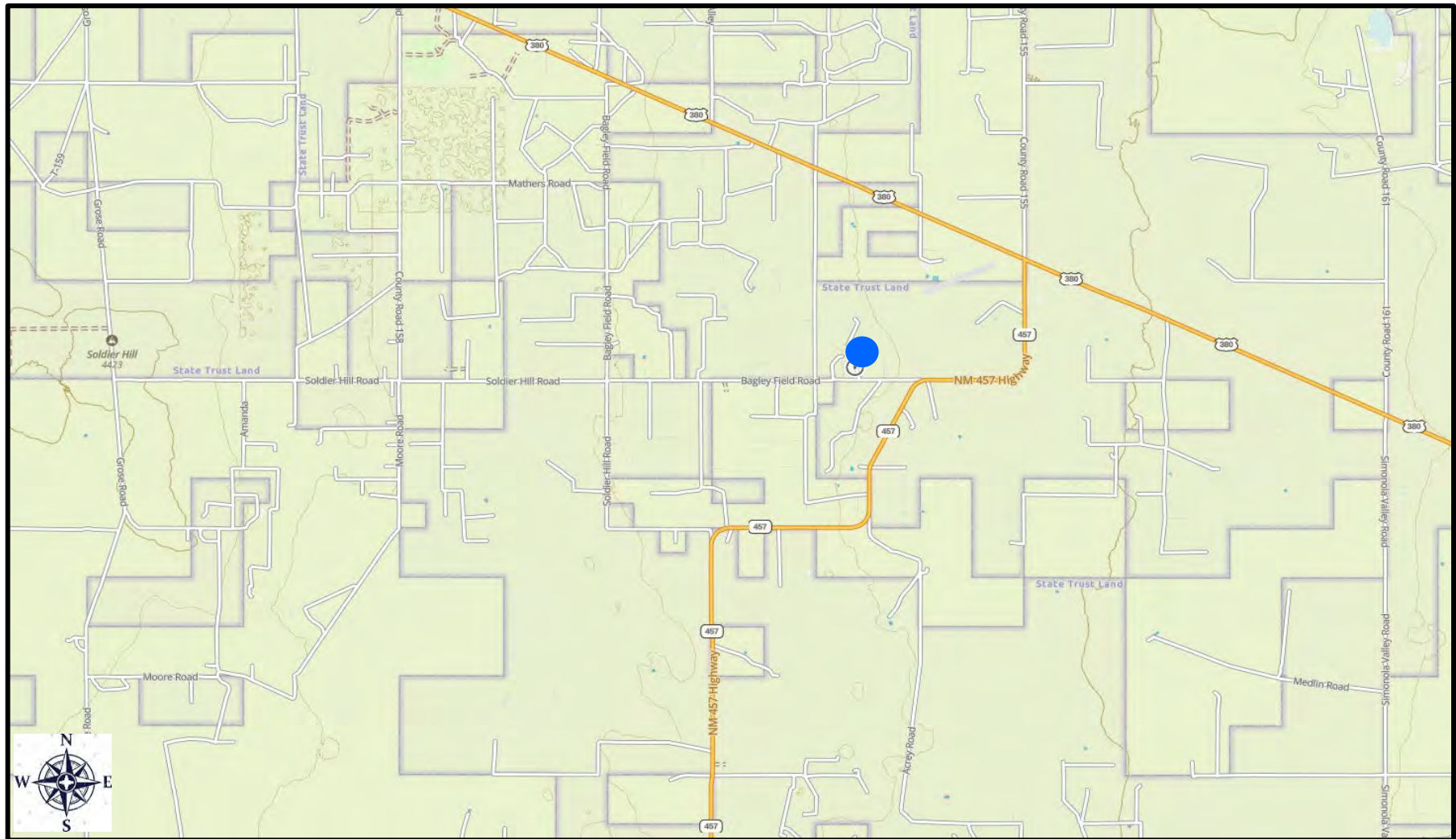
Sample ID	Sample Date	Sample Depth (feet bgs)	Soil Status	TPH (GRO)	TPH (DRO)	TPH (MRO)	Total TPH	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	Chloride
				milligrams per kilogram (mg/kg)									
NMOCD Closure Criteria				-	-	-	100	10	-	-	-	50	600.0
S-13 (0-6")	11/20/24	0-6"	In Situ	<14.4	<15.0	<15.0	<15.0	<0.00141	<0.00202	<0.00110	<0.00231	<0.00231	262
S-13 (2')	11/20/24	2'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00138	<0.00198	<0.00108	<0.00226	<0.00226	1,260
Confirmation Samples From Sidewalls of Excavation													
S-1	06/24/25	0-3'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00139	<0.00200	<0.00109	<0.00229	<0.00229	92.1
S-2	06/24/25	0-3'	In Situ	<14.5	18.8 J	<15.1	18.8 J	<0.00140	<0.00201	<0.00110	<0.00230	<0.00230	94.9
S-3	06/24/25	0-3'	In Situ	<14.4	<15.0	<15.0	<15.0	<0.00141	<0.00202	<0.00110	<0.00231	<0.00231	75.6
S-4	06/24/25	0-3'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00139	<0.00199	<0.00108	<0.00228	<0.00228	108
S-5	08/22/24	0-3'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00141	<0.00202	<0.00110	<0.00231	<0.00231	7.11 J
S-6	08/22/24	0-3'	In Situ	<14.5	15.3 J	<15.1	15.3 J	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	<0.397
Confirmation Samples From Bottom of Excavation													
B-1	06/24/25	3'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	106
B-2	06/24/25	3'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	86.7 F1
B-3	06/24/25	3'	In Situ	<14.5	15.6 J	<15.1	15.6 J	<0.00140	<0.00201	<0.00110	<0.00230	<0.00230	108

Notes:

1. GRO: Gasoline Range Organics
2. DRO: Diesel Range Organics
3. MRO: Motor Oil Range Organics
4. bgs: below ground surface
5. Bold and highlighting indicates the COC was detected above the NMOCD Closure Criteria.
6. < indicates the COC was below the appropriate laboratory method/sample detection limit
7. Yellow highlighting indicates the COC concentration exceeds the NMOCD Closure Criteria
8. Green highlighting indicates soil was excavated and disposed.
9. F1: MS and/or MSD recovery exceeds control limits.
10. J: Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.



FIGURES



LEGEND:

 Site Location

Base Map from GAIA GPS

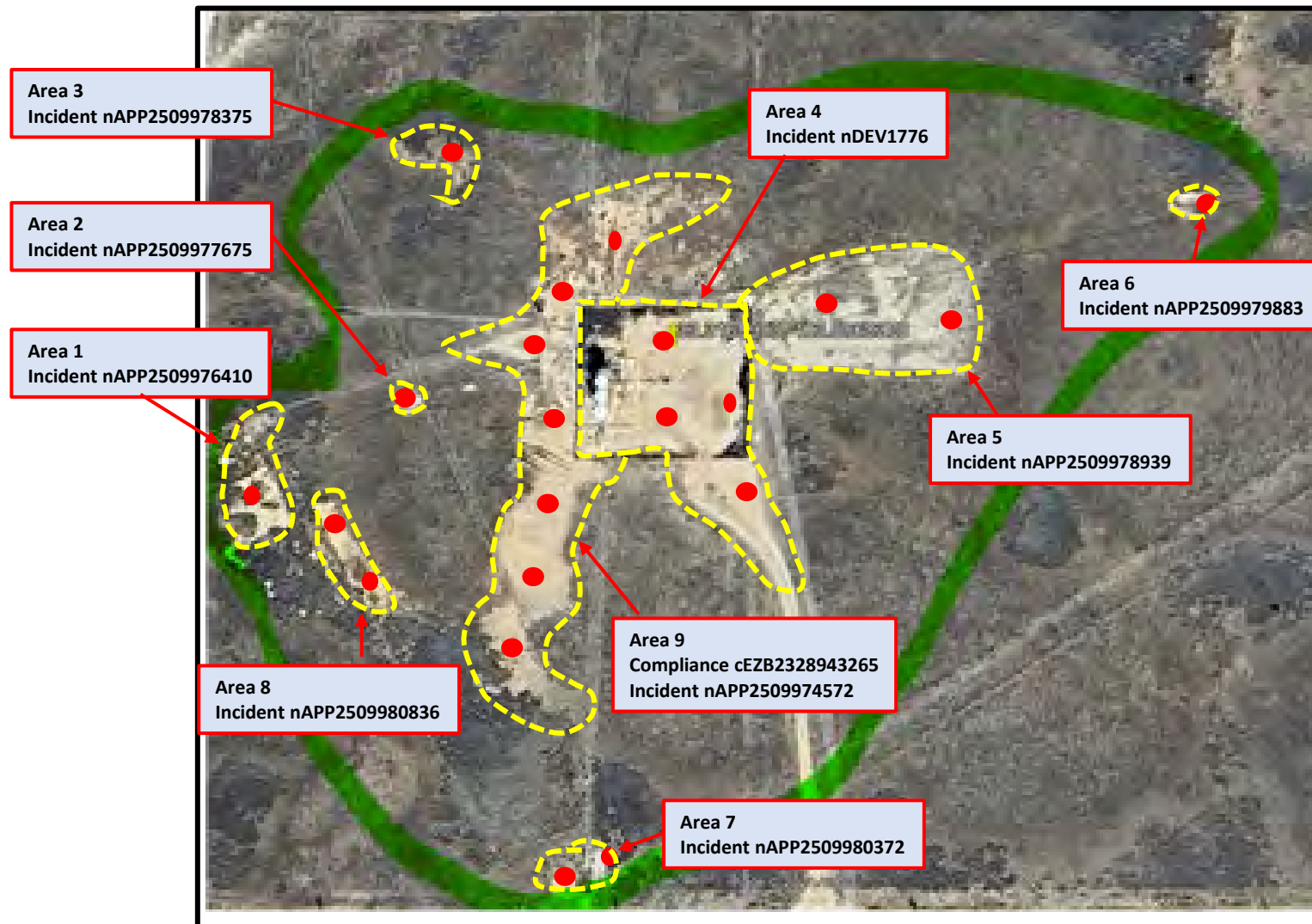
Figure 1
Site Location Map
BXP Operating, LLC
Bagley SWD #004
Lea County, New Mexico

Drafted by: CC | Checked by: CC

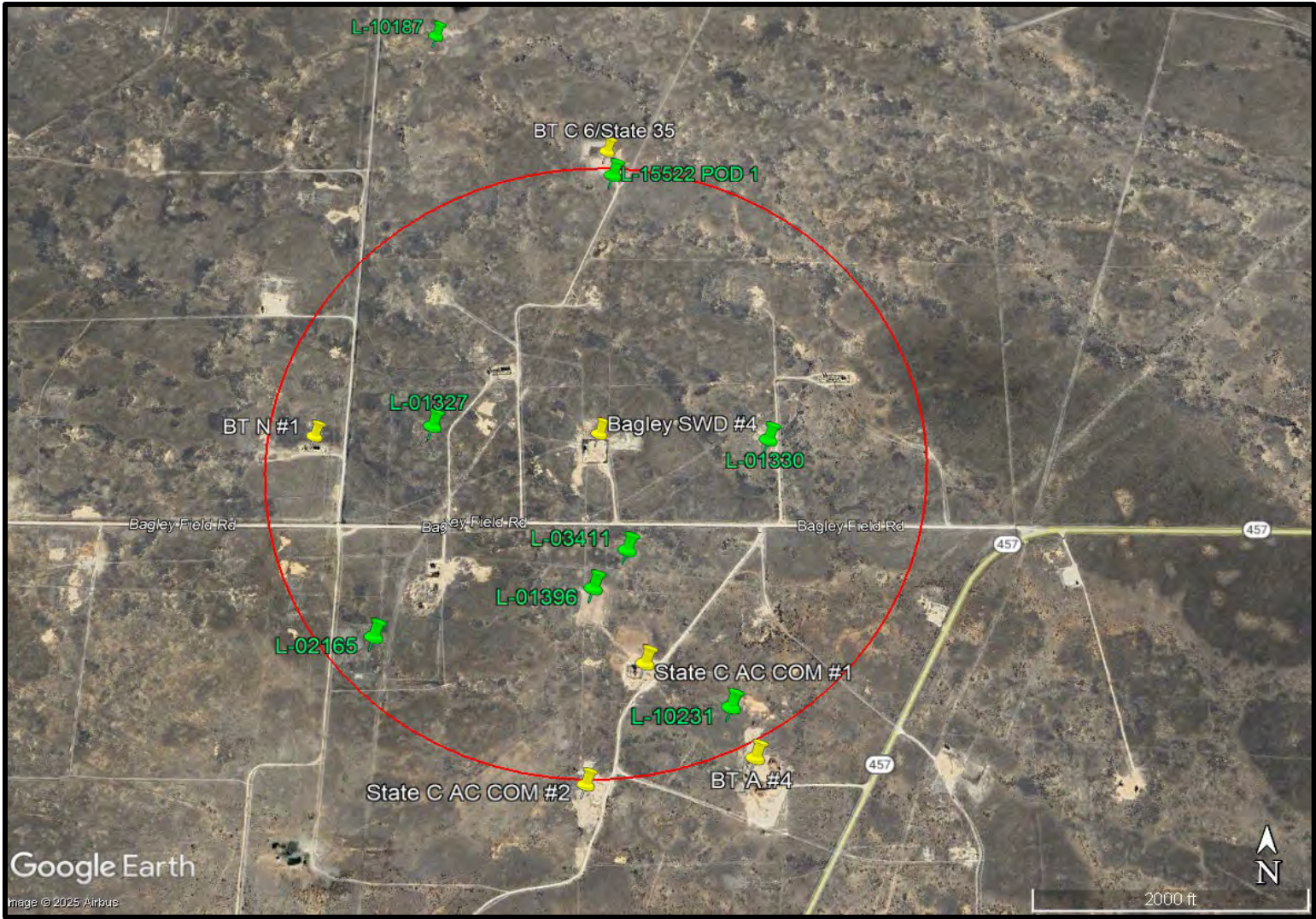
Draft: August 3, 2025

GPS: 33.317714° -103.587766°

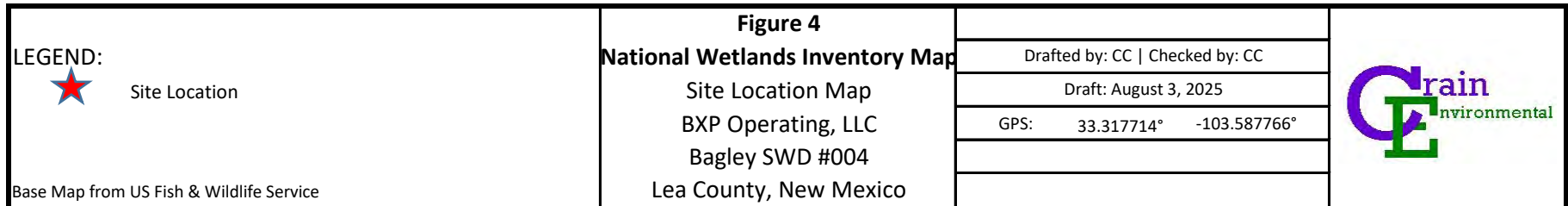


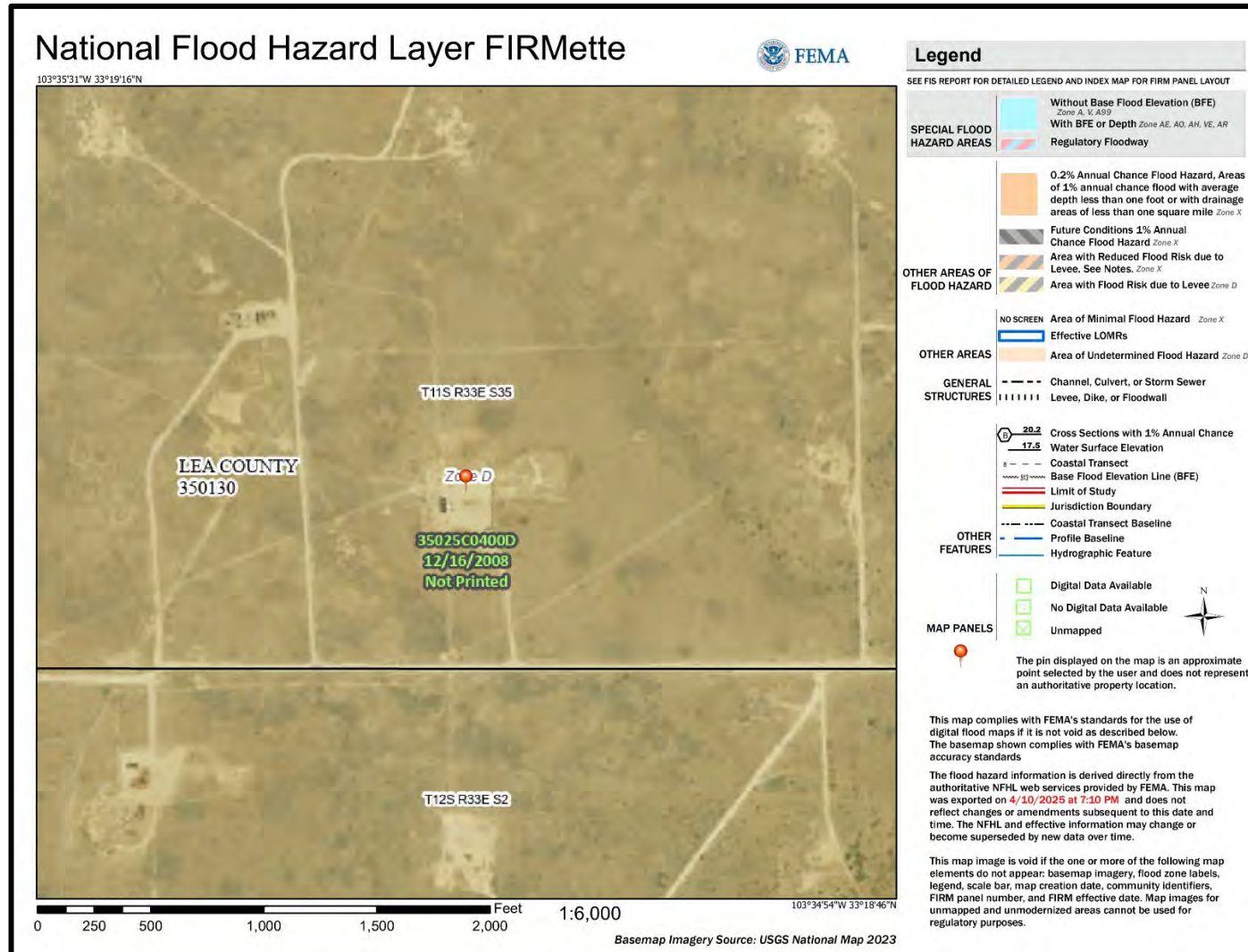


LEGEND:		Figure 2			
	Investigation Sample Location	Estimated Remediation Area		Drafted by: CC Checked by: CC	
	ECO Investigation Boundary	Boundaries		Draft: April 10, 2025	
	Estimated Remediation Area Boundaries with Area and Incident Number	BXP Operating, LLC		GPS: 33.317714° -103.587766°	
Base Map from Google Earth Pro		Bagley SWD #004			
		Lea County, New Mexico			
					



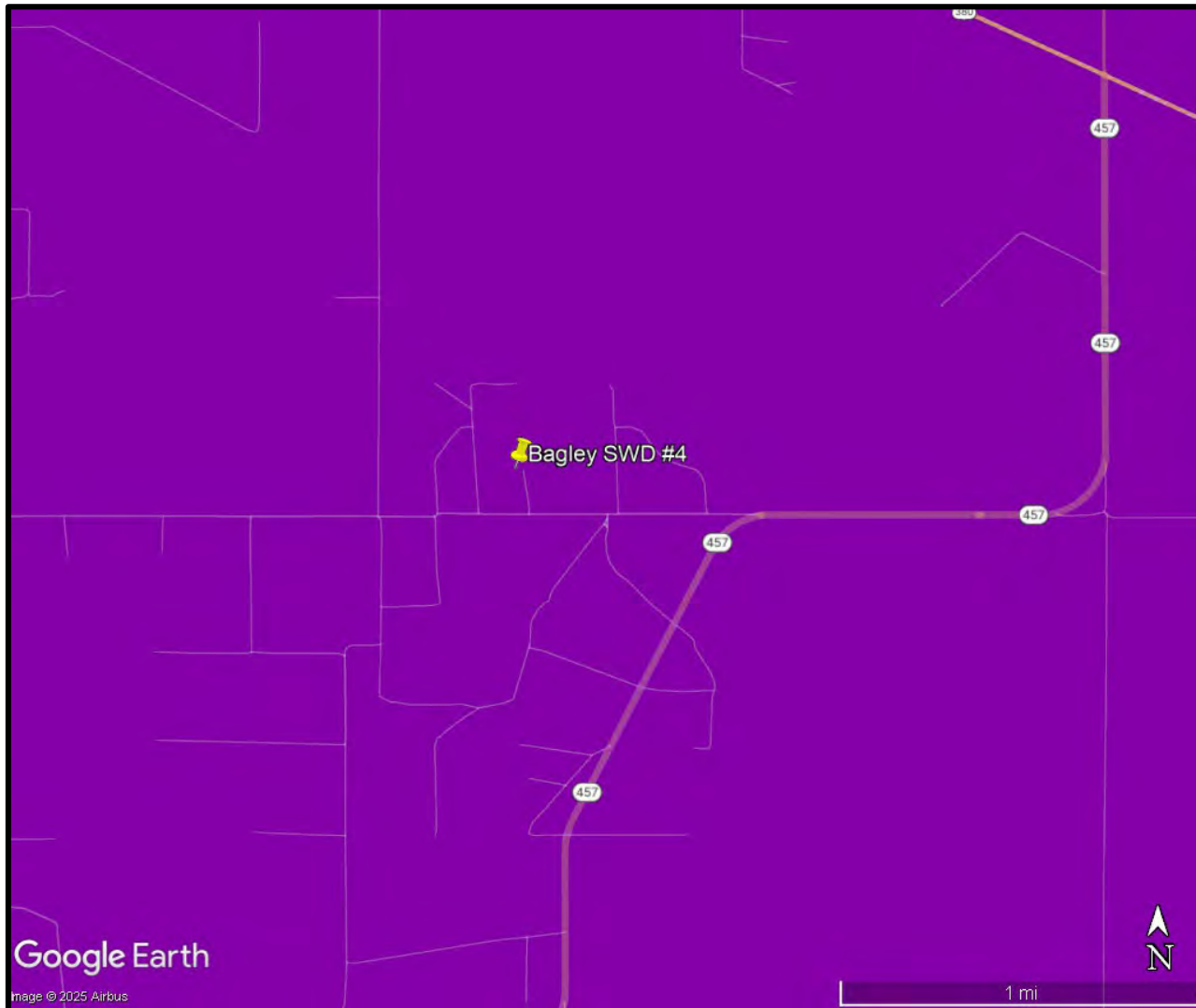
LEGEND:  Site and Well Location Base Map from Google Earth Pro	Figure 3 Wellhead Protection Area Map Site Location Map BXP Operating, LLC Bagley SWD #004 Lea County, New Mexico		
		Drafted by: CC Checked by: CC	
		Draft: August 3, 2025	
		GPS: 33.317714° -103.587766°	





LEGEND: Site Location Base Map from FEMA	Figure 5 FEMA Floodplain Map Site Location Map BXP Operating, LLC Bagley SWD #004 Lea County, New Mexico	
		Drafted by: CC Checked by: CC
		Draft: August 3, 2025
		GPS: 33.317714° -103.587766°





LEGEND: Low Karst Potential Medium Karst Potential High Karst Potential Base Map from Google Earth Pro and BLM	Figure 6 Karst Potential Map Site Location Map BXP Operating, LLC Bagley SWD #004 Lea County, New Mexico		
		Drafted by: CC Checked by: CC	
		Draft: August 3, 2025	
		GPS: 33.317714° -103.587766°	



LEGEND:		Figure 7 Sample Location Map BXP Operating, LLC Bagley SWD #004 - Area 3 Lea County, New Mexico		
B-1 Sample Location with Sample Number			Drafted by: CC Checked by: CC	
Excavation Boundary			Draft: Sept. 14, 2025	
			GPS: 33.317714° -103.587766°	
			Base Map from Google Earth Pro	



Appendix A: 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 01327		SW	SW	35	11S	33E	631143.0	3687301.0 *	

* UTM location was derived from PLSS - see Help

Driller License:	33	Driller Company:	TATUM CLAUDE E.		
Driller Name:	TATUM, CLAUDE E.				
Drill Start Date:	1951-12-17	Drill Finish Date:	1951-12-18	Plug Date:	1954-07-10
Log File Date:	1952-02-18	PCW Rcv Date:	1953-02-20	Source:	Shallow
Pump Type:		Pipe Discharge Size:		Estimated Yield:	
Casing Size:	7.00	Depth Well:	115	Depth Water:	55

Water Bearing Stratifications:

Top	Bottom	Description
55	115	Sandstone/Gravel/Conglomerate

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.

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 01330		SW	SE	35	11S	33E	631947.0	3687312.0 *	

* UTM location was derived from PLSS - see [Help](#)

Driller License:	33	Driller Company:	TATUM CLAUDE E.		
Driller Name:	TATUM, CLAUDE E.				
Drill Start Date:	1951-12-20	Drill Finish Date:	1951-12-21	Plug Date:	1954-08-31
Log File Date:	1952-02-18	PCW Rcv Date:	1953-02-24	Source:	Shallow
Pump Type:		Pipe Discharge Size:		Estimated Yield:	
Casing Size:	6.63	Depth Well:	115	Depth Water:	55

Water Bearing Stratifications:

Top	Bottom	Description
25	55	Sandstone/Gravel/Conglomerate
55	110	Sandstone/Gravel/Conglomerate
110	115	Sandstone/Gravel/Conglomerate

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.

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 06949	NW	NW	NW	35	11S	33E	631025.0	3688607.0 *	

* UTM location was derived from PLSS - see Help

Driller License:	46	Driller Company:	ABBOTT BROTHERS COMPANY		
Driller Name:	MURRELL ABBOTT				
Drill Start Date:	1972-06-02	Drill Finish Date:	1972-06-04	Plug Date:	1973-01-19
Log File Date:	1972-06-09	PCW Rcv Date:		Source:	Shallow
Pump Type:		Pipe Discharge Size:		Estimated Yield:	
Casing Size:	7.00	Depth Well:	135	Depth Water:	80

Water Bearing Stratifications:

Top	Bottom	Description
127	135	Sandstone/Gravel/Conglomerate

Casing Perforations:

Top	Bottom
75	135

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.



Appendix B: 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):

For NMSLO Agency Use Only:

NMSLO Lease Number:

Acknowledgment-Only:

Lease Analyst:

Date Exhibit Routed to Cultural Resources Office:

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



Appendix C: Biological Desktop Review

Project code: 2025-0081805

04/10/2025 20:04:51 UTC

PROJECT SUMMARY

Project Code: 2025-0081805
Project Name: Bagley SWD #004
Project Type: Non-NPL Site Remediation
Project Description: Soil remediation
Project Location:

The approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@33.31675815,-103.58720367585516,14z>



Counties: Lea County, New Mexico

Project code: 2025-0081805

04/10/2025 20:04:51 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: https://ecos.fws.gov/ecp/species/1924	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: https://ecos.fws.gov/ecp/species/1923	Experimental Population, Non- Essential

INSECTS

NAME	STATUS
Monarch Butterfly <i>Danaus plexippus</i> There is proposed critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/9743	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.



Appendix D – Laboratory Reports 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 7/3/2025 8:23:57 AM

JOB DESCRIPTION

Bagley #4 SWD-Area 3
Lea Co., NM

JOB NUMBER

880-59787-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland

Job Notes

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

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

Authorization



Generated
7/3/2025 8:23:57 AM

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

Client: Crain Environmental
Project/Site: Bagley #4 SWD-Area 3

Laboratory Job ID: 880-59787-1
SDG: Lea Co., NM

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Definitions/Glossary

Client: Crain Environmental
Project/Site: Bagley #4 SWD-Area 3

Job ID: 880-59787-1
SDG: Lea Co., NM

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Crain Environmental
Project: Bagley #4 SWD-Area 3

Job ID: 880-59787-1

Job ID: 880-59787-1

Eurofins Midland

Job Narrative 880-59787-1

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

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

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

Receipt

The samples were received on 6/26/2025 12:26 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -6.3°C.

GC VOA

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

Diesel Range Organics

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-113181 and analytical batch 880-113522 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.

HPLC/IC

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-113200 and analytical batch 880-113282 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.

Eurofins Midland

Client Sample Results

Client: Crain Environmental
Project/Site: Bagley #4 SWD-Area 3

Job ID: 880-59787-1
SDG: Lea Co., NM

Client Sample ID: S-1

Lab Sample ID: 880-59787-1

Date Collected: 06/24/25 17:00

Matrix: Solid

Date Received: 06/26/25 12:26

Sample Depth: 0-3'

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		06/26/25 15:18	06/28/25 00:46	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		06/26/25 15:18	06/28/25 00:46	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		06/26/25 15:18	06/28/25 00:46	1
m-Xylene & p-Xylene	<0.00229	U	0.00401	0.00229	mg/Kg		06/26/25 15:18	06/28/25 00:46	1
o-Xylene	<0.00159	U	0.00200	0.00159	mg/Kg		06/26/25 15:18	06/28/25 00:46	1
Xylenes, Total	<0.00229	U	0.00401	0.00229	mg/Kg		06/26/25 15:18	06/28/25 00:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	06/26/25 15:18	06/28/25 00:46	1
1,4-Difluorobenzene (Surr)	100		70 - 130	06/26/25 15:18	06/28/25 00:46	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			06/28/25 00:46	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			07/02/25 09:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U F1	49.9	14.5	mg/Kg		06/26/25 15:25	07/02/25 09:54	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.9	15.1	mg/Kg		06/26/25 15:25	07/02/25 09:54	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		06/26/25 15:25	07/02/25 09:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130	06/26/25 15:25	07/02/25 09:54	1
o-Terphenyl	94		70 - 130	06/26/25 15:25	07/02/25 09:54	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	92.1		9.94	0.393	mg/Kg			06/28/25 06:56	1

Client Sample ID: S-2

Lab Sample ID: 880-59787-2

Date Collected: 06/24/25 17:05

Matrix: Solid

Date Received: 06/26/25 12:26

Sample Depth: 0-3'

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		06/26/25 15:18	06/28/25 01:06	1
Toluene	<0.00201	U	0.00201	0.00201	mg/Kg		06/26/25 15:18	06/28/25 01:06	1
Ethylbenzene	<0.00110	U	0.00201	0.00110	mg/Kg		06/26/25 15:18	06/28/25 01:06	1
m-Xylene & p-Xylene	<0.00230	U	0.00402	0.00230	mg/Kg		06/26/25 15:18	06/28/25 01:06	1
o-Xylene	<0.00159	U	0.00201	0.00159	mg/Kg		06/26/25 15:18	06/28/25 01:06	1
Xylenes, Total	<0.00230	U	0.00402	0.00230	mg/Kg		06/26/25 15:18	06/28/25 01:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	06/26/25 15:18	06/28/25 01:06	1

Eurofins Midland

Client Sample Results

Client: Crain Environmental
Project/Site: Bagley #4 SWD-Area 3

Job ID: 880-59787-1
SDG: Lea Co., NM

Client Sample ID: S-2

Lab Sample ID: 880-59787-2

Date Collected: 06/24/25 17:05

Matrix: Solid

Date Received: 06/26/25 12:26

Sample Depth: 0-3'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	98		70 - 130	06/26/25 15:18	06/28/25 01:06	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00230	U	0.00402	0.00230	mg/Kg			06/28/25 01:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	18.8	J	50.0	15.1	mg/Kg			07/02/25 10:41	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		06/26/25 15:25	07/02/25 10:41	1
Diesel Range Organics (Over C10-C28)	18.8	J	50.0	15.1	mg/Kg		06/26/25 15:25	07/02/25 10:41	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		06/26/25 15:25	07/02/25 10:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130				06/26/25 15:25	07/02/25 10:41	1
o-Terphenyl	101		70 - 130				06/26/25 15:25	07/02/25 10:41	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	94.9		9.96	0.393	mg/Kg			06/28/25 07:03	1

Client Sample ID: S-3

Lab Sample ID: 880-59787-3

Date Collected: 06/24/25 17:10

Matrix: Solid

Date Received: 06/26/25 12:26

Sample Depth: 0-3'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00141	U	0.00202	0.00141	mg/Kg		06/26/25 15:18	06/28/25 01:26	1
Toluene	<0.00202	U	0.00202	0.00202	mg/Kg		06/26/25 15:18	06/28/25 01:26	1
Ethylbenzene	<0.00110	U	0.00202	0.00110	mg/Kg		06/26/25 15:18	06/28/25 01:26	1
m-Xylene & p-Xylene	<0.00231	U	0.00404	0.00231	mg/Kg		06/26/25 15:18	06/28/25 01:26	1
o-Xylene	<0.00160	U	0.00202	0.00160	mg/Kg		06/26/25 15:18	06/28/25 01:26	1
Xylenes, Total	<0.00231	U	0.00404	0.00231	mg/Kg		06/26/25 15:18	06/28/25 01:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	06/26/25 15:18	06/28/25 01:26	1
1,4-Difluorobenzene (Surr)	100		70 - 130	06/26/25 15:18	06/28/25 01:26	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00231	U	0.00404	0.00231	mg/Kg			06/28/25 01:26	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			07/02/25 10:56	1

Eurofins Midland

Client Sample Results

Client: Crain Environmental
Project/Site: Bagley #4 SWD-Area 3

Job ID: 880-59787-1
SDG: Lea Co., NM

Client Sample ID: S-3

Lab Sample ID: 880-59787-3

Date Collected: 06/24/25 17:10

Matrix: Solid

Date Received: 06/26/25 12:26

Sample Depth: 0-3'

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		06/26/25 15:25	07/02/25 10:56	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.7	15.0	mg/Kg		06/26/25 15:25	07/02/25 10:56	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.7	15.0	mg/Kg		06/26/25 15:25	07/02/25 10:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				06/26/25 15:25	07/02/25 10:56	1
o-Terphenyl	97		70 - 130				06/26/25 15:25	07/02/25 10:56	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	75.6		9.92	0.392	mg/Kg			06/28/25 07:11	1

Client Sample ID: S-4

Lab Sample ID: 880-59787-4

Date Collected: 06/24/25 17:15

Matrix: Solid

Date Received: 06/26/25 12:26

Sample Depth: 0-3'

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		06/26/25 15:18	06/28/25 02:49	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		06/26/25 15:18	06/28/25 02:49	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		06/26/25 15:18	06/28/25 02:49	1
m-Xylene & p-Xylene	<0.00228	U	0.00398	0.00228	mg/Kg		06/26/25 15:18	06/28/25 02:49	1
o-Xylene	<0.00158	U	0.00199	0.00158	mg/Kg		06/26/25 15:18	06/28/25 02:49	1
Xylenes, Total	<0.00228	U	0.00398	0.00228	mg/Kg		06/26/25 15:18	06/28/25 02:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				06/26/25 15:18	06/28/25 02:49	1
1,4-Difluorobenzene (Surr)	98		70 - 130				06/26/25 15:18	06/28/25 02:49	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			06/28/25 02:49	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			07/02/25 11:13	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		06/26/25 15:25	07/02/25 11:13	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.8	15.1	mg/Kg		06/26/25 15:25	07/02/25 11:13	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		06/26/25 15:25	07/02/25 11:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130				06/26/25 15:25	07/02/25 11:13	1
o-Terphenyl	99		70 - 130				06/26/25 15:25	07/02/25 11:13	1

Eurofins Midland

Client Sample Results

Client: Crain Environmental
Project/Site: Bagley #4 SWD-Area 3

Job ID: 880-59787-1
SDG: Lea Co., NM

Client Sample ID: S-4

Lab Sample ID: 880-59787-4

Date Collected: 06/24/25 17:15

Matrix: Solid

Date Received: 06/26/25 12:26

Sample Depth: 0-3'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	108		9.96	0.393	mg/Kg			06/28/25 07:18	1

Client Sample ID: B-1

Lab Sample ID: 880-59787-5

Date Collected: 06/24/25 17:20

Matrix: Solid

Date Received: 06/26/25 12:26

Sample Depth: 3'

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		06/26/25 15:18	06/28/25 03:10	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		06/26/25 15:18	06/28/25 03:10	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		06/26/25 15:18	06/28/25 03:10	1
m-Xylene & p-Xylene	<0.00227	U	0.00398	0.00227	mg/Kg		06/26/25 15:18	06/28/25 03:10	1
o-Xylene	<0.00157	U	0.00199	0.00157	mg/Kg		06/26/25 15:18	06/28/25 03:10	1
Xylenes, Total	<0.00227	U	0.00398	0.00227	mg/Kg		06/26/25 15:18	06/28/25 03:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				06/26/25 15:18	06/28/25 03:10	1
1,4-Difluorobenzene (Surr)	96		70 - 130				06/26/25 15:18	06/28/25 03:10	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			06/28/25 03:10	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			07/02/25 11:29	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		06/26/25 15:25	07/02/25 11:29	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.8	15.1	mg/Kg		06/26/25 15:25	07/02/25 11:29	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		06/26/25 15:25	07/02/25 11:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130				06/26/25 15:25	07/02/25 11:29	1
o-Terphenyl	102		70 - 130				06/26/25 15:25	07/02/25 11:29	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	106		9.94	0.393	mg/Kg			06/28/25 07:25	1

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Client Sample Results

Client: Crain Environmental
Project/Site: Bagley #4 SWD-Area 3

Job ID: 880-59787-1
SDG: Lea Co., NM

Client Sample ID: B-2

Lab Sample ID: 880-59787-6

Date Collected: 06/24/25 17:25

Matrix: Solid

Date Received: 06/26/25 12:26

Sample Depth: 3'

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		06/26/25 15:18	06/28/25 03:30	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		06/26/25 15:18	06/28/25 03:30	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		06/26/25 15:18	06/28/25 03:30	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		06/26/25 15:18	06/28/25 03:30	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		06/26/25 15:18	06/28/25 03:30	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg		06/26/25 15:18	06/28/25 03:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130				06/26/25 15:18	06/28/25 03:30	1
1,4-Difluorobenzene (Surr)	98		70 - 130				06/26/25 15:18	06/28/25 03:30	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			06/28/25 03:30	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			07/02/25 11:44	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		06/26/25 15:25	07/02/25 11:44	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.9	15.1	mg/Kg		06/26/25 15:25	07/02/25 11:44	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		06/26/25 15:25	07/02/25 11:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130				06/26/25 15:25	07/02/25 11:44	1
o-Terphenyl	99		70 - 130				06/26/25 15:25	07/02/25 11:44	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	86.7	F1	9.98	0.394	mg/Kg			06/28/25 07:32	1

Client Sample ID: B-3

Lab Sample ID: 880-59787-7

Date Collected: 06/24/25 18:16

Matrix: Solid

Date Received: 06/26/25 12:26

Sample Depth: 3'

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		06/26/25 15:18	06/28/25 03:50	1
Toluene	<0.00201	U	0.00201	0.00201	mg/Kg		06/26/25 15:18	06/28/25 03:50	1
Ethylbenzene	<0.00110	U	0.00201	0.00110	mg/Kg		06/26/25 15:18	06/28/25 03:50	1
m-Xylene & p-Xylene	<0.00230	U	0.00402	0.00230	mg/Kg		06/26/25 15:18	06/28/25 03:50	1
o-Xylene	<0.00159	U	0.00201	0.00159	mg/Kg		06/26/25 15:18	06/28/25 03:50	1
Xylenes, Total	<0.00230	U	0.00402	0.00230	mg/Kg		06/26/25 15:18	06/28/25 03:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				06/26/25 15:18	06/28/25 03:50	1

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Client Sample Results

Client: Crain Environmental
Project/Site: Bagley #4 SWD-Area 3

Job ID: 880-59787-1
SDG: Lea Co., NM

Client Sample ID: B-3

Lab Sample ID: 880-59787-7

Date Collected: 06/24/25 18:16

Matrix: Solid

Date Received: 06/26/25 12:26

Sample Depth: 3'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	100		70 - 130	06/26/25 15:18	06/28/25 03:50	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00230	U	0.00402	0.00230	mg/Kg			06/28/25 03:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	15.6	J	50.0	15.1	mg/Kg			07/02/25 12:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		06/26/25 15:25	07/02/25 12:00	1
Diesel Range Organics (Over C10-C28)	15.6	J	50.0	15.1	mg/Kg		06/26/25 15:25	07/02/25 12:00	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		06/26/25 15:25	07/02/25 12:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130				06/26/25 15:25	07/02/25 12:00	1
o-Terphenyl	101		70 - 130				06/26/25 15:25	07/02/25 12:00	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	108		9.92	0.392	mg/Kg			06/28/25 07:54	1

Surrogate Summary

Client: Crain Environmental
Project/Site: Bagley #4 SWD-Area 3

Job ID: 880-59787-1
SDG: Lea Co., NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-59766-A-1-C MS	Matrix Spike	94	93
880-59766-A-1-D MSD	Matrix Spike Duplicate	92	89
880-59787-1	S-1	109	100
880-59787-2	S-2	109	98
880-59787-3	S-3	108	100
880-59787-4	S-4	104	98
880-59787-5	B-1	106	96
880-59787-6	B-2	111	98
880-59787-7	B-3	110	100
LCS 880-113180/1-A	Lab Control Sample	93	95
LCSD 880-113180/2-A	Lab Control Sample Dup	93	93
MB 880-113153/5-A	Method Blank	91	89
MB 880-113180/5-A	Method Blank	96	91
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-59787-1	S-1	98	94
880-59787-1 MS	S-1	103	94
880-59787-1 MSD	S-1	87	94
880-59787-2	S-2	101	101
880-59787-3	S-3	99	97
880-59787-4	S-4	100	99
880-59787-5	B-1	96	102
880-59787-6	B-2	101	99
880-59787-7	B-3	102	101
LCS 880-113181/2-A	Lab Control Sample	111	127
LCSD 880-113181/3-A	Lab Control Sample Dup	111	129
MB 880-113181/1-A	Method Blank	102	107
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Crain Environmental
Project/Site: Bagley #4 SWD-Area 3

Job ID: 880-59787-1
SDG: Lea Co., NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-113153/5-A
Matrix: Solid
Analysis Batch: 113212

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 113153

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		06/26/25 12:27	06/27/25 11:26	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		06/26/25 12:27	06/27/25 11:26	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		06/26/25 12:27	06/27/25 11:26	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		06/26/25 12:27	06/27/25 11:26	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		06/26/25 12:27	06/27/25 11:26	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		06/26/25 12:27	06/27/25 11:26	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	06/26/25 12:27	06/27/25 11:26	1
1,4-Difluorobenzene (Surr)	89		70 - 130	06/26/25 12:27	06/27/25 11:26	1

Lab Sample ID: MB 880-113180/5-A
Matrix: Solid
Analysis Batch: 113212

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 113180

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		06/26/25 15:18	06/27/25 22:01	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		06/26/25 15:18	06/27/25 22:01	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		06/26/25 15:18	06/27/25 22:01	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		06/26/25 15:18	06/27/25 22:01	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		06/26/25 15:18	06/27/25 22:01	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		06/26/25 15:18	06/27/25 22:01	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	06/26/25 15:18	06/27/25 22:01	1
1,4-Difluorobenzene (Surr)	91		70 - 130	06/26/25 15:18	06/27/25 22:01	1

Lab Sample ID: LCS 880-113180/1-A
Matrix: Solid
Analysis Batch: 113212

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 113180

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1009		mg/Kg		101	70 - 130
Toluene	0.100	0.09070		mg/Kg		91	70 - 130
Ethylbenzene	0.100	0.09288		mg/Kg		93	70 - 130
m-Xylene & p-Xylene	0.200	0.1863		mg/Kg		93	70 - 130
o-Xylene	0.100	0.09429		mg/Kg		94	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: LCSD 880-113180/2-A
Matrix: Solid
Analysis Batch: 113212

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 113180

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1001		mg/Kg		100	70 - 130	1	35

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QC Sample Results

Client: Crain Environmental
Project/Site: Bagley #4 SWD-Area 3

Job ID: 880-59787-1
SDG: Lea Co., NM

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

Lab Sample ID: LCSD 880-113180/2-A

Matrix: Solid

Analysis Batch: 113212

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 113180

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.09012		mg/Kg		90	70 - 130	1	35
Ethylbenzene	0.100	0.09309		mg/Kg		93	70 - 130	0	35
m-Xylene & p-Xylene	0.200	0.1871		mg/Kg		94	70 - 130	0	35
o-Xylene	0.100	0.09498		mg/Kg		95	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: 880-59766-A-1-C MS

Matrix: Solid

Analysis Batch: 113212

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 113180

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00139	U	0.100	0.08977		mg/Kg		90	70 - 130
Toluene	<0.00200	U	0.100	0.08049		mg/Kg		80	70 - 130
Ethylbenzene	<0.00109	U	0.100	0.08072		mg/Kg		81	70 - 130
m-Xylene & p-Xylene	<0.00229	U	0.200	0.1623		mg/Kg		81	70 - 130
o-Xylene	<0.00158	U	0.100	0.08140		mg/Kg		81	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: 880-59766-A-1-D MSD

Matrix: Solid

Analysis Batch: 113212

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 113180

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00139	U	0.100	0.08663		mg/Kg		87	70 - 130	4	35
Toluene	<0.00200	U	0.100	0.07857		mg/Kg		79	70 - 130	2	35
Ethylbenzene	<0.00109	U	0.100	0.08066		mg/Kg		81	70 - 130	0	35
m-Xylene & p-Xylene	<0.00229	U	0.200	0.1625		mg/Kg		81	70 - 130	0	35
o-Xylene	<0.00158	U	0.100	0.08170		mg/Kg		82	70 - 130	0	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		70 - 130
1,4-Difluorobenzene (Surr)	89		70 - 130

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

Lab Sample ID: MB 880-113181/1-A

Matrix: Solid

Analysis Batch: 113522

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 113181

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		06/26/25 15:22	07/02/25 07:34	1

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QC Sample Results

Client: Crain Environmental
Project/Site: Bagley #4 SWD-Area 3

Job ID: 880-59787-1
SDG: Lea Co., NM

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

Lab Sample ID: MB 880-113181/1-A

Matrix: Solid

Analysis Batch: 113522

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 113181

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		06/26/25 15:22	07/02/25 07:34	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		06/26/25 15:22	07/02/25 07:34	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130				06/26/25 15:22	07/02/25 07:34	1
o-Terphenyl	107		70 - 130				06/26/25 15:22	07/02/25 07:34	1

Lab Sample ID: LCS 880-113181/2-A

Matrix: Solid

Analysis Batch: 113522

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 113181

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	948.3		mg/Kg		95	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1072		mg/Kg		107	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	111		70 - 130				
o-Terphenyl	127		70 - 130				

Lab Sample ID: LCSD 880-113181/3-A

Matrix: Solid

Analysis Batch: 113522

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 113181

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	935.1		mg/Kg		94	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	1079		mg/Kg		108	70 - 130	1	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	111		70 - 130						
o-Terphenyl	129		70 - 130						

Lab Sample ID: 880-59787-1 MS

Matrix: Solid

Analysis Batch: 113522

Client Sample ID: S-1

Prep Type: Total/NA

Prep Batch: 113181

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 F1	995	695.8		mg/Kg		70	70 - 130
Diesel Range Organics (Over C10-C28)	<15.1	U	995	816.2		mg/Kg		82	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	103		70 - 130						
o-Terphenyl	94		70 - 130						

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QC Sample Results

Client: Crain Environmental
Project/Site: Bagley #4 SWD-Area 3

Job ID: 880-59787-1
SDG: Lea Co., NM

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

Lab Sample ID: 880-59787-1 MSD

Matrix: Solid

Analysis Batch: 113522

Client Sample ID: S-1

Prep Type: Total/NA

Prep Batch: 113181

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 F1	995	661.3	F1	mg/Kg		66	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	<15.1	U	995	845.8		mg/Kg		85	70 - 130	4	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	87		70 - 130								
o-Terphenyl	94		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-113200/1-A

Matrix: Solid

Analysis Batch: 113282

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			06/28/25 05:30	1

Lab Sample ID: LCS 880-113200/2-A

Matrix: Solid

Analysis Batch: 113282

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	259.8		mg/Kg		104	90 - 110

Lab Sample ID: LCSD 880-113200/3-A

Matrix: Solid

Analysis Batch: 113282

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	259.9		mg/Kg		104	90 - 110	0	20

Lab Sample ID: 880-59787-6 MS

Matrix: Solid

Analysis Batch: 113282

Client Sample ID: B-2

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	86.7	F1	250	368.2	F1	mg/Kg		113	90 - 110

Lab Sample ID: 880-59787-6 MSD

Matrix: Solid

Analysis Batch: 113282

Client Sample ID: B-2

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	86.7	F1	250	366.6	F1	mg/Kg		112	90 - 110	0	20

Eurofins Midland

QC Association Summary

Client: Crain Environmental
Project/Site: Bagley #4 SWD-Area 3

Job ID: 880-59787-1
SDG: Lea Co., NM

GC VOA

Prep Batch: 113153

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-113153/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 113180

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-59787-1	S-1	Total/NA	Solid	5035	
880-59787-2	S-2	Total/NA	Solid	5035	
880-59787-3	S-3	Total/NA	Solid	5035	
880-59787-4	S-4	Total/NA	Solid	5035	
880-59787-5	B-1	Total/NA	Solid	5035	
880-59787-6	B-2	Total/NA	Solid	5035	
880-59787-7	B-3	Total/NA	Solid	5035	
MB 880-113180/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-113180/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-113180/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-59766-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
880-59766-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 113212

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-59787-1	S-1	Total/NA	Solid	8021B	113180
880-59787-2	S-2	Total/NA	Solid	8021B	113180
880-59787-3	S-3	Total/NA	Solid	8021B	113180
880-59787-4	S-4	Total/NA	Solid	8021B	113180
880-59787-5	B-1	Total/NA	Solid	8021B	113180
880-59787-6	B-2	Total/NA	Solid	8021B	113180
880-59787-7	B-3	Total/NA	Solid	8021B	113180
MB 880-113153/5-A	Method Blank	Total/NA	Solid	8021B	113153
MB 880-113180/5-A	Method Blank	Total/NA	Solid	8021B	113180
LCS 880-113180/1-A	Lab Control Sample	Total/NA	Solid	8021B	113180
LCSD 880-113180/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	113180
880-59766-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	113180
880-59766-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	113180

Analysis Batch: 113380

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-59787-1	S-1	Total/NA	Solid	Total BTEX	
880-59787-2	S-2	Total/NA	Solid	Total BTEX	
880-59787-3	S-3	Total/NA	Solid	Total BTEX	
880-59787-4	S-4	Total/NA	Solid	Total BTEX	
880-59787-5	B-1	Total/NA	Solid	Total BTEX	
880-59787-6	B-2	Total/NA	Solid	Total BTEX	
880-59787-7	B-3	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 113181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-59787-1	S-1	Total/NA	Solid	8015NM Prep	
880-59787-2	S-2	Total/NA	Solid	8015NM Prep	
880-59787-3	S-3	Total/NA	Solid	8015NM Prep	
880-59787-4	S-4	Total/NA	Solid	8015NM Prep	

Eurofins Midland

QC Association Summary

Client: Crain Environmental
Project/Site: Bagley #4 SWD-Area 3

Job ID: 880-59787-1
SDG: Lea Co., NM

GC Semi VOA (Continued)

Prep Batch: 113181 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-59787-5	B-1	Total/NA	Solid	8015NM Prep	
880-59787-6	B-2	Total/NA	Solid	8015NM Prep	
880-59787-7	B-3	Total/NA	Solid	8015NM Prep	
MB 880-113181/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-113181/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-113181/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-59787-1 MS	S-1	Total/NA	Solid	8015NM Prep	
880-59787-1 MSD	S-1	Total/NA	Solid	8015NM Prep	

Analysis Batch: 113522

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-59787-1	S-1	Total/NA	Solid	8015B NM	113181
880-59787-2	S-2	Total/NA	Solid	8015B NM	113181
880-59787-3	S-3	Total/NA	Solid	8015B NM	113181
880-59787-4	S-4	Total/NA	Solid	8015B NM	113181
880-59787-5	B-1	Total/NA	Solid	8015B NM	113181
880-59787-6	B-2	Total/NA	Solid	8015B NM	113181
880-59787-7	B-3	Total/NA	Solid	8015B NM	113181
MB 880-113181/1-A	Method Blank	Total/NA	Solid	8015B NM	113181
LCS 880-113181/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	113181
LCSD 880-113181/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	113181
880-59787-1 MS	S-1	Total/NA	Solid	8015B NM	113181
880-59787-1 MSD	S-1	Total/NA	Solid	8015B NM	113181

Analysis Batch: 113578

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-59787-1	S-1	Total/NA	Solid	8015 NM	
880-59787-2	S-2	Total/NA	Solid	8015 NM	
880-59787-3	S-3	Total/NA	Solid	8015 NM	
880-59787-4	S-4	Total/NA	Solid	8015 NM	
880-59787-5	B-1	Total/NA	Solid	8015 NM	
880-59787-6	B-2	Total/NA	Solid	8015 NM	
880-59787-7	B-3	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 113200

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-59787-1	S-1	Soluble	Solid	DI Leach	
880-59787-2	S-2	Soluble	Solid	DI Leach	
880-59787-3	S-3	Soluble	Solid	DI Leach	
880-59787-4	S-4	Soluble	Solid	DI Leach	
880-59787-5	B-1	Soluble	Solid	DI Leach	
880-59787-6	B-2	Soluble	Solid	DI Leach	
880-59787-7	B-3	Soluble	Solid	DI Leach	
MB 880-113200/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-113200/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-113200/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-59787-6 MS	B-2	Soluble	Solid	DI Leach	
880-59787-6 MSD	B-2	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Crain Environmental
Project/Site: Bagley #4 SWD-Area 3

Job ID: 880-59787-1
SDG: Lea Co., NM

HPLC/IC

Analysis Batch: 113282

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-59787-1	S-1	Soluble	Solid	300.0	113200
880-59787-2	S-2	Soluble	Solid	300.0	113200
880-59787-3	S-3	Soluble	Solid	300.0	113200
880-59787-4	S-4	Soluble	Solid	300.0	113200
880-59787-5	B-1	Soluble	Solid	300.0	113200
880-59787-6	B-2	Soluble	Solid	300.0	113200
880-59787-7	B-3	Soluble	Solid	300.0	113200
MB 880-113200/1-A	Method Blank	Soluble	Solid	300.0	113200
LCS 880-113200/2-A	Lab Control Sample	Soluble	Solid	300.0	113200
LCSD 880-113200/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	113200
880-59787-6 MS	B-2	Soluble	Solid	300.0	113200
880-59787-6 MSD	B-2	Soluble	Solid	300.0	113200

Lab Chronicle

Client: Crain Environmental
Project/Site: Bagley #4 SWD-Area 3

Job ID: 880-59787-1
SDG: Lea Co., NM

Client Sample ID: S-1

Lab Sample ID: 880-59787-1

Date Collected: 06/24/25 17:00

Matrix: Solid

Date Received: 06/26/25 12:26

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	113180	06/26/25 15:18	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	113212	06/28/25 00:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			113380	06/28/25 00:46	SA	EET MID
Total/NA	Analysis	8015 NM		1			113578	07/02/25 09:54	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	113181	06/26/25 15:25	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	113522	07/02/25 09:54	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	113200	06/26/25 16:50	SA	EET MID
Soluble	Analysis	300.0		1			113282	06/28/25 06:56	CS	EET MID

Client Sample ID: S-2

Lab Sample ID: 880-59787-2

Date Collected: 06/24/25 17:05

Matrix: Solid

Date Received: 06/26/25 12:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	113180	06/26/25 15:18	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	113212	06/28/25 01:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			113380	06/28/25 01:06	SA	EET MID
Total/NA	Analysis	8015 NM		1			113578	07/02/25 10:41	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	113181	06/26/25 15:25	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	113522	07/02/25 10:41	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	113200	06/26/25 16:50	SA	EET MID
Soluble	Analysis	300.0		1			113282	06/28/25 07:03	CS	EET MID

Client Sample ID: S-3

Lab Sample ID: 880-59787-3

Date Collected: 06/24/25 17:10

Matrix: Solid

Date Received: 06/26/25 12:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	113180	06/26/25 15:18	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	113212	06/28/25 01:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			113380	06/28/25 01:26	SA	EET MID
Total/NA	Analysis	8015 NM		1			113578	07/02/25 10:56	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	113181	06/26/25 15:25	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	113522	07/02/25 10:56	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	113200	06/26/25 16:50	SA	EET MID
Soluble	Analysis	300.0		1			113282	06/28/25 07:11	CS	EET MID

Client Sample ID: S-4

Lab Sample ID: 880-59787-4

Date Collected: 06/24/25 17:15

Matrix: Solid

Date Received: 06/26/25 12:26

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	113180	06/26/25 15:18	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	113212	06/28/25 02:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			113380	06/28/25 02:49	SA	EET MID

Eurofins Midland

Lab Chronicle

Client: Crain Environmental
Project/Site: Bagley #4 SWD-Area 3

Job ID: 880-59787-1
SDG: Lea Co., NM

Client Sample ID: S-4

Lab Sample ID: 880-59787-4

Date Collected: 06/24/25 17:15

Matrix: Solid

Date Received: 06/26/25 12:26

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			113578	07/02/25 11:13	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	113181	06/26/25 15:25	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	113522	07/02/25 11:13	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	113200	06/26/25 16:50	SA	EET MID
Soluble	Analysis	300.0		1			113282	06/28/25 07:18	CS	EET MID

Client Sample ID: B-1

Lab Sample ID: 880-59787-5

Date Collected: 06/24/25 17:20

Matrix: Solid

Date Received: 06/26/25 12:26

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	113180	06/26/25 15:18	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	113212	06/28/25 03:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			113380	06/28/25 03:10	SA	EET MID
Total/NA	Analysis	8015 NM		1			113578	07/02/25 11:29	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	113181	06/26/25 15:25	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	113522	07/02/25 11:29	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	113200	06/26/25 16:50	SA	EET MID
Soluble	Analysis	300.0		1			113282	06/28/25 07:25	CS	EET MID

Client Sample ID: B-2

Lab Sample ID: 880-59787-6

Date Collected: 06/24/25 17:25

Matrix: Solid

Date Received: 06/26/25 12:26

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	113180	06/26/25 15:18	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	113212	06/28/25 03:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			113380	06/28/25 03:30	SA	EET MID
Total/NA	Analysis	8015 NM		1			113578	07/02/25 11:44	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	113181	06/26/25 15:25	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	113522	07/02/25 11:44	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	113200	06/26/25 16:50	SA	EET MID
Soluble	Analysis	300.0		1			113282	06/28/25 07:32	CS	EET MID

Client Sample ID: B-3

Lab Sample ID: 880-59787-7

Date Collected: 06/24/25 18:16

Matrix: Solid

Date Received: 06/26/25 12:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	113180	06/26/25 15:18	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	113212	06/28/25 03:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			113380	06/28/25 03:50	SA	EET MID
Total/NA	Analysis	8015 NM		1			113578	07/02/25 12:00	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	113181	06/26/25 15:25	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	113522	07/02/25 12:00	TKC	EET MID

Eurofins Midland

Lab Chronicle

Client: Crain Environmental
Project/Site: Bagley #4 SWD-Area 3

Job ID: 880-59787-1
SDG: Lea Co., NM

Client Sample ID: B-3
Date Collected: 06/24/25 18:16
Date Received: 06/26/25 12:26

Lab Sample ID: 880-59787-7
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			5.04 g	50 mL	113200	06/26/25 16:50	SA	EET MID
Soluble	Analysis	300.0		1			113282	06/28/25 07:54	CS	EET MID

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

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Accreditation/Certification Summary

Client: Crain Environmental
Project/Site: Bagley #4 SWD-Area 3

Job ID: 880-59787-1
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	06-30-26
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Crain Environmental
Project/Site: Bagley #4 SWD-Area 3

Job ID: 880-59787-1
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: Bagley #4 SWD-Area 3

Job ID: 880-59787-1
SDG: Lea Co., NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-59787-1	S-1	Solid	06/24/25 17:00	06/26/25 12:26	0-3'
880-59787-2	S-2	Solid	06/24/25 17:05	06/26/25 12:26	0-3'
880-59787-3	S-3	Solid	06/24/25 17:10	06/26/25 12:26	0-3'
880-59787-4	S-4	Solid	06/24/25 17:15	06/26/25 12:26	0-3'
880-59787-5	B-1	Solid	06/24/25 17:20	06/26/25 12:26	3'
880-59787-6	B-2	Solid	06/24/25 17:25	06/26/25 12:26	3'
880-59787-7	B-3	Solid	06/24/25 18:16	06/26/25 12:26	3'

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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



880-59787 Chain of Custody

www.xenco.com Page 1 of 1

Work Order Comments

Program: ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project: NM

Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐

Deliverables: EDD ☐ ADaPT ☐ Other:

Project Manager: Cindy Crain

Company Name: Crain Environmental

Address: 2925 E. 17th St.

City, State ZIP: Odessa, TX 79761

Phone: (575) 441-7244

Bill to: (if different) Nicole Cornwell

Company Name: BXP

Address: 11757 Katy Fwy. Ste. 475

City, State ZIP: Houston, TX 77079

Email: Cindy.Crain@gmail.com

ANALYSIS REQUEST										Preservative Codes	
Project Name:	Project Number:	Project Location:	Sampler's Name:	PO #:	Turn Around	Due Date:	Parameters	Grab/Comp	# of Cont	Sample Comments	
<u>Baggy #4 SWD-Area 3</u>					☒ Routine ☐ Rush					None: NO Cool: Cool HCL: HC H ₂ SO ₄ : H ₂ H ₃ PO ₄ : HP NaHSO ₄ : NABIS Na ₂ S ₂ O ₃ : NaSO ₃ Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC	
<u>Lea Co. NM</u>											
<u>Cindy Crain</u>											
<u>Temp Blank:</u>	<u>Yes</u> ☒ <u>No</u> ☐	<u>Wet Ice:</u>	<u>Yes</u> ☐ <u>No</u> ☒	<u>Thermometer ID:</u>	<u>TRG</u>	<u>Due Date:</u>					
<u>Samples Received Intact:</u>	<u>Yes</u> ☒ <u>No</u> ☐	<u>Correction Factor:</u>	<u>-0.5</u>	<u>Temperature Reading:</u>	<u>-6.4</u>	<u>Corrected Temperature:</u>	<u>-6.9</u>				
<u>Sample Custody Seals:</u>	<u>Yes</u> ☒ <u>No</u> ☐	<u>Temperature Reading:</u>	<u>-6.4</u>	<u>Corrected Temperature:</u>	<u>-6.9</u>						
<u>Total Containers:</u>											
<u>Sample Identification</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Time Sampled</u>	<u>Depth</u>	<u>Grab/Comp</u>	<u># of Cont</u>					
<u>S-1</u>	<u>S</u>	<u>4/24/25</u>	<u>1700</u>	<u>0-3'</u>	<u>C</u>	<u>1</u>					
<u>S-2</u>	<u>S</u>	<u>4/24/25</u>	<u>1705</u>	<u>1</u>	<u>↓</u>	<u>1</u>					
<u>S-3</u>	<u>S</u>	<u>4/24/25</u>	<u>1710</u>	<u>1</u>	<u>↓</u>	<u>1</u>					
<u>S-4</u>	<u>S</u>	<u>4/24/25</u>	<u>1715</u>	<u>1</u>	<u>↓</u>	<u>1</u>					
<u>B-1</u>	<u>S</u>	<u>4/24/25</u>	<u>1720</u>	<u>3'</u>	<u>↓</u>	<u>1</u>					
<u>B-2</u>	<u>S</u>	<u>4/24/25</u>	<u>1725</u>	<u>3'</u>	<u>↓</u>	<u>1</u>					
<u>B-3</u>	<u>S</u>	<u>4/24/25</u>	<u>1816</u>	<u>3'</u>	<u>↓</u>	<u>1</u>					

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ 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
<u>Cindy Crain</u>	<u>[Signature]</u>	<u>4/24/25</u>	<u>[Signature]</u>	<u>[Signature]</u>	<u>4/24/25</u>

Revised Date: 08/25/2020 Rev. 2002.2

Login Sample Receipt Checklist

Client: Crain Environmental

Job Number: 880-59787-1

SDG Number: Lea Co., NM

Login Number: 59787

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	



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 8/27/2025 10:23:06 AM

JOB DESCRIPTION

Bagley #4 SWD- Area 3
Lea Co, NM

JOB NUMBER

880-61881-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701



Eurofins Midland

Job Notes

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

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

Authorization



Generated
8/27/2025 10:23:06 AM

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

Client: Crain Environmental
Project/Site: Bagley #4 SWD- Area 3

Laboratory Job ID: 880-61881-1
SDG: Lea Co, NM

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Definitions/Glossary

Client: Crain Environmental
Project/Site: Bagley #4 SWD- Area 3

Job ID: 880-61881-1
SDG: Lea Co, NM

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Case Narrative

Client: Crain Environmental
Project: Bagley #4 SWD- Area 3

Job ID: 880-61881-1

Job ID: 880-61881-1

Eurofins Midland

Job Narrative 880-61881-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The samples were received on 8/25/2025 9:54 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 4.0°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: S-5 (880-61881-1) and S-6 (880-61881-2).

GC VOA

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

Diesel Range Organics

Method 8015MOD_NM: The method blank for preparation batch 880-117443 and analytical batch 880-117571 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.

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

HPLC/IC

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

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Client Sample Results

Client: Crain Environmental
Project/Site: Bagley #4 SWD- Area 3

Job ID: 880-61881-1
SDG: Lea Co, NM

Client Sample ID: S-5

Lab Sample ID: 880-61881-1

Date Collected: 08/22/25 09:30

Matrix: Solid

Date Received: 08/25/25 09:54

Sample Depth: 0-3'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00141	U	0.00202	0.00141	mg/Kg		08/26/25 09:34	08/26/25 15:11	1
Toluene	<0.00202	U	0.00202	0.00202	mg/Kg		08/26/25 09:34	08/26/25 15:11	1
Ethylbenzene	<0.00110	U	0.00202	0.00110	mg/Kg		08/26/25 09:34	08/26/25 15:11	1
m-Xylene & p-Xylene	<0.00231	U	0.00404	0.00231	mg/Kg		08/26/25 09:34	08/26/25 15:11	1
o-Xylene	<0.00160	U	0.00202	0.00160	mg/Kg		08/26/25 09:34	08/26/25 15:11	1
Xylenes, Total	<0.00231	U	0.00404	0.00231	mg/Kg		08/26/25 09:34	08/26/25 15:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	08/26/25 09:34	08/26/25 15:11	1
1,4-Difluorobenzene (Surr)	91		70 - 130	08/26/25 09:34	08/26/25 15:11	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00231	U	0.00404	0.00231	mg/Kg			08/26/25 15:11	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			08/27/25 01:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.1	14.5	mg/Kg		08/25/25 10:30	08/27/25 01:10	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.1	15.1	mg/Kg		08/25/25 10:30	08/27/25 01:10	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.1	15.1	mg/Kg		08/25/25 10:30	08/27/25 01:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130	08/25/25 10:30	08/27/25 01:10	1
o-Terphenyl	76		70 - 130	08/25/25 10:30	08/27/25 01:10	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.11	J	10.1	0.398	mg/Kg			08/25/25 20:38	1

Client Sample ID: S-6

Lab Sample ID: 880-61881-2

Date Collected: 08/22/25 09:35

Matrix: Solid

Date Received: 08/25/25 09:54

Sample Depth: 0-3'

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		08/26/25 09:34	08/26/25 15:32	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		08/26/25 09:34	08/26/25 15:32	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		08/26/25 09:34	08/26/25 15:32	1
m-Xylene & p-Xylene	<0.00227	U	0.00398	0.00227	mg/Kg		08/26/25 09:34	08/26/25 15:32	1
o-Xylene	<0.00157	U	0.00199	0.00157	mg/Kg		08/26/25 09:34	08/26/25 15:32	1
Xylenes, Total	<0.00227	U	0.00398	0.00227	mg/Kg		08/26/25 09:34	08/26/25 15:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	08/26/25 09:34	08/26/25 15:32	1

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Client Sample Results

Client: Crain Environmental
Project/Site: Bagley #4 SWD- Area 3

Job ID: 880-61881-1
SDG: Lea Co, NM

Client Sample ID: S-6

Lab Sample ID: 880-61881-2

Date Collected: 08/22/25 09:35

Matrix: Solid

Date Received: 08/25/25 09:54

Sample Depth: 0-3'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	90		70 - 130	08/26/25 09:34	08/26/25 15:32	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			08/26/25 15:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	15.3	J	49.9	15.1	mg/Kg			08/27/25 01:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.9	14.5	mg/Kg		08/25/25 10:30	08/27/25 01:56	1
Diesel Range Organics (Over C10-C28)	15.3	J	49.9	15.1	mg/Kg		08/25/25 10:30	08/27/25 01:56	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		08/25/25 10:30	08/27/25 01:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130				08/25/25 10:30	08/27/25 01:56	1
o-Terphenyl	76		70 - 130				08/25/25 10:30	08/27/25 01:56	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.397	U	10.1	0.397	mg/Kg			08/25/25 20:43	1

Surrogate Summary

Client: Crain Environmental
Project/Site: Bagley #4 SWD- Area 3

Job ID: 880-61881-1
SDG: Lea Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-61881-1	S-5	105	91
880-61881-2	S-6	103	90
890-8722-A-1-H MS	Matrix Spike	103	109
890-8722-A-1-I MSD	Matrix Spike Duplicate	103	102
LCS 880-117553/1-A	Lab Control Sample	110	100
LCSD 880-117553/2-A	Lab Control Sample Dup	105	100
MB 880-117553/5-A	Method Blank	101	91
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-61881-1	S-5	79	76
880-61881-1 MS	S-5	89	79
880-61881-1 MSD	S-5	89	79
880-61881-2	S-6	79	76
LCS 880-117443/2-A	Lab Control Sample	103	119
LCSD 880-117443/3-A	Lab Control Sample Dup	104	119
MB 880-117443/1-A	Method Blank	85	88
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Crain Environmental
Project/Site: Bagley #4 SWD- Area 3

Job ID: 880-61881-1
SDG: Lea Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-117553/5-A
Matrix: Solid
Analysis Batch: 117543

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 117553

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		08/26/25 09:34	08/26/25 12:26	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		08/26/25 09:34	08/26/25 12:26	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		08/26/25 09:34	08/26/25 12:26	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		08/26/25 09:34	08/26/25 12:26	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		08/26/25 09:34	08/26/25 12:26	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		08/26/25 09:34	08/26/25 12:26	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	08/26/25 09:34	08/26/25 12:26	1
1,4-Difluorobenzene (Surr)	91		70 - 130	08/26/25 09:34	08/26/25 12:26	1

Lab Sample ID: LCS 880-117553/1-A
Matrix: Solid
Analysis Batch: 117543

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 117553

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09197		mg/Kg		92	70 - 130
Toluene	0.100	0.08865		mg/Kg		89	70 - 130
Ethylbenzene	0.100	0.09902		mg/Kg		99	70 - 130
m-Xylene & p-Xylene	0.200	0.1972		mg/Kg		99	70 - 130
o-Xylene	0.100	0.09687		mg/Kg		97	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: LCSD 880-117553/2-A
Matrix: Solid
Analysis Batch: 117543

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 117553

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08525		mg/Kg		85	70 - 130	8	35
Toluene	0.100	0.07626		mg/Kg		76	70 - 130	15	35
Ethylbenzene	0.100	0.08507		mg/Kg		85	70 - 130	15	35
m-Xylene & p-Xylene	0.200	0.1662		mg/Kg		83	70 - 130	17	35
o-Xylene	0.100	0.08483		mg/Kg		85	70 - 130	13	35

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

Lab Sample ID: 890-8722-A-1-H MS
Matrix: Solid
Analysis Batch: 117543

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 117553

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00139	U	0.100	0.08334		mg/Kg		83	70 - 130
Toluene	<0.00200	U	0.100	0.07975		mg/Kg		80	70 - 130

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QC Sample Results

Client: Crain Environmental
Project/Site: Bagley #4 SWD- Area 3

Job ID: 880-61881-1
SDG: Lea Co, NM

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

Lab Sample ID: 890-8722-A-1-H MS

Matrix: Solid

Analysis Batch: 117543

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 117553

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00109	U	0.100	0.09374		mg/Kg		94	70 - 130
m-Xylene & p-Xylene	<0.00228	U	0.200	0.1878		mg/Kg		94	70 - 130
o-Xylene	<0.00158	U	0.100	0.09122		mg/Kg		91	70 - 130
Surrogate	%Recovery	MS Qualifier	MS Limits						
4-Bromofluorobenzene (Surr)	103		70 - 130						
1,4-Difluorobenzene (Surr)	109		70 - 130						

Lab Sample ID: 890-8722-A-1-I MSD

Matrix: Solid

Analysis Batch: 117543

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 117553

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00139	U	0.100	0.09027		mg/Kg		90	70 - 130	8	35
Toluene	<0.00200	U	0.100	0.08060		mg/Kg		81	70 - 130	1	35
Ethylbenzene	<0.00109	U	0.100	0.09135		mg/Kg		91	70 - 130	3	35
m-Xylene & p-Xylene	<0.00228	U	0.200	0.1814		mg/Kg		91	70 - 130	4	35
o-Xylene	<0.00158	U	0.100	0.08904		mg/Kg		89	70 - 130	2	35
Surrogate	%Recovery	MSD Qualifier	MSD Limits								
4-Bromofluorobenzene (Surr)	103		70 - 130								
1,4-Difluorobenzene (Surr)	102		70 - 130								

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

Lab Sample ID: MB 880-117443/1-A

Matrix: Solid

Analysis Batch: 117571

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 117443

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	14.97	J	50.0	14.5	mg/Kg		08/25/25 10:30	08/27/25 00:24	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		08/25/25 10:30	08/27/25 00:24	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		08/25/25 10:30	08/27/25 00:24	1
Surrogate	%Recovery	MB Qualifier	MB Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130				08/25/25 10:30	08/27/25 00:24	1
o-Terphenyl	88		70 - 130				08/25/25 10:30	08/27/25 00:24	1

Lab Sample ID: LCS 880-117443/2-A

Matrix: Solid

Analysis Batch: 117571

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 117443

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1045		mg/Kg		104	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1068		mg/Kg		107	70 - 130

Eurofins Midland

QC Sample Results

Client: Crain Environmental
Project/Site: Bagley #4 SWD- Area 3

Job ID: 880-61881-1
SDG: Lea Co, NM

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

Lab Sample ID: LCS 880-117443/2-A

Matrix: Solid

Analysis Batch: 117571

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 117443

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	103		70 - 130
o-Terphenyl	119		70 - 130

Lab Sample ID: LCSD 880-117443/3-A

Matrix: Solid

Analysis Batch: 117571

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 117443

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1049		mg/Kg		105	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	1000	1083		mg/Kg		108	70 - 130	1	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	104		70 - 130
o-Terphenyl	119		70 - 130

Lab Sample ID: 880-61881-1 MS

Matrix: Solid

Analysis Batch: 117571

Client Sample ID: S-5

Prep Type: Total/NA

Prep Batch: 117443

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	760.9		mg/Kg		76	70 - 130
Diesel Range Organics (Over C10-C28)	<15.1	U	1000	845.3		mg/Kg		85	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	89		70 - 130
o-Terphenyl	79		70 - 130

Lab Sample ID: 880-61881-1 MSD

Matrix: Solid

Analysis Batch: 117571

Client Sample ID: S-5

Prep Type: Total/NA

Prep Batch: 117443

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	771.8		mg/Kg		77	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<15.1	U	1000	854.1		mg/Kg		85	70 - 130	1	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	89		70 - 130
o-Terphenyl	79		70 - 130

Eurofins Midland

QC Sample Results

Client: Crain Environmental
Project/Site: Bagley #4 SWD- Area 3

Job ID: 880-61881-1
SDG: Lea Co, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-117441/1-A
Matrix: Solid
Analysis Batch: 117518

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			08/25/25 18:16	1

Lab Sample ID: LCS 880-117441/2-A
Matrix: Solid
Analysis Batch: 117518

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	233.3		mg/Kg		93	90 - 110

Lab Sample ID: LCSD 880-117441/3-A
Matrix: Solid
Analysis Batch: 117518

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	229.2		mg/Kg		92	90 - 110	2	20

Lab Sample ID: 880-61880-A-3-B MS
Matrix: Solid
Analysis Batch: 117518

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	246		253	497.6		mg/Kg		100	90 - 110

Lab Sample ID: 880-61880-A-3-C MSD
Matrix: Solid
Analysis Batch: 117518

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	246		253	489.0		mg/Kg		96	90 - 110	2	20

QC Association Summary

Client: Crain Environmental
Project/Site: Bagley #4 SWD- Area 3

Job ID: 880-61881-1
SDG: Lea Co, NM

GC VOA

Analysis Batch: 117543

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-61881-1	S-5	Total/NA	Solid	8021B	117553
880-61881-2	S-6	Total/NA	Solid	8021B	117553
MB 880-117553/5-A	Method Blank	Total/NA	Solid	8021B	117553
LCS 880-117553/1-A	Lab Control Sample	Total/NA	Solid	8021B	117553
LCSD 880-117553/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	117553
890-8722-A-1-H MS	Matrix Spike	Total/NA	Solid	8021B	117553
890-8722-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	117553

Prep Batch: 117553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-61881-1	S-5	Total/NA	Solid	5035	
880-61881-2	S-6	Total/NA	Solid	5035	
MB 880-117553/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-117553/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-117553/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-8722-A-1-H MS	Matrix Spike	Total/NA	Solid	5035	
890-8722-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 117668

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-61881-1	S-5	Total/NA	Solid	Total BTEX	
880-61881-2	S-6	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 117443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-61881-1	S-5	Total/NA	Solid	8015NM Prep	
880-61881-2	S-6	Total/NA	Solid	8015NM Prep	
MB 880-117443/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-117443/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-117443/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-61881-1 MS	S-5	Total/NA	Solid	8015NM Prep	
880-61881-1 MSD	S-5	Total/NA	Solid	8015NM Prep	

Analysis Batch: 117571

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-61881-1	S-5	Total/NA	Solid	8015B NM	117443
880-61881-2	S-6	Total/NA	Solid	8015B NM	117443
MB 880-117443/1-A	Method Blank	Total/NA	Solid	8015B NM	117443
LCS 880-117443/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	117443
LCSD 880-117443/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	117443
880-61881-1 MS	S-5	Total/NA	Solid	8015B NM	117443
880-61881-1 MSD	S-5	Total/NA	Solid	8015B NM	117443

Analysis Batch: 117675

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-61881-1	S-5	Total/NA	Solid	8015 NM	
880-61881-2	S-6	Total/NA	Solid	8015 NM	

Eurofins Midland

QC Association Summary

Client: Crain Environmental
Project/Site: Bagley #4 SWD- Area 3

Job ID: 880-61881-1
SDG: Lea Co, NM

HPLC/IC

Leach Batch: 117441

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-61881-1	S-5	Soluble	Solid	DI Leach	
880-61881-2	S-6	Soluble	Solid	DI Leach	
MB 880-117441/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-117441/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-117441/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-61880-A-3-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-61880-A-3-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 117518

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-61881-1	S-5	Soluble	Solid	300.0	117441
880-61881-2	S-6	Soluble	Solid	300.0	117441
MB 880-117441/1-A	Method Blank	Soluble	Solid	300.0	117441
LCS 880-117441/2-A	Lab Control Sample	Soluble	Solid	300.0	117441
LCSD 880-117441/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	117441
880-61880-A-3-B MS	Matrix Spike	Soluble	Solid	300.0	117441
880-61880-A-3-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	117441

Lab Chronicle

Client: Crain Environmental
Project/Site: Bagley #4 SWD- Area 3

Job ID: 880-61881-1
SDG: Lea Co, NM

Client Sample ID: S-5
Date Collected: 08/22/25 09:30
Date Received: 08/25/25 09:54

Lab Sample ID: 880-61881-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	117553	08/26/25 09:34	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	117543	08/26/25 15:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117668	08/26/25 15:11	SA	EET MID
Total/NA	Analysis	8015 NM		1			117675	08/27/25 01:10	SA	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	117443	08/25/25 10:30	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	117571	08/27/25 01:10	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	117441	08/25/25 10:25	SI	EET MID
Soluble	Analysis	300.0		1			117518	08/25/25 20:38	CS	EET MID

Client Sample ID: S-6
Date Collected: 08/22/25 09:35
Date Received: 08/25/25 09:54

Lab Sample ID: 880-61881-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	117553	08/26/25 09:34	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	117543	08/26/25 15:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			117668	08/26/25 15:32	SA	EET MID
Total/NA	Analysis	8015 NM		1			117675	08/27/25 01:56	SA	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	117443	08/25/25 10:30	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	117571	08/27/25 01:56	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	117441	08/25/25 10:25	SI	EET MID
Soluble	Analysis	300.0		1			117518	08/25/25 20:43	CS	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: Bagley #4 SWD- Area 3

Job ID: 880-61881-1
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	06-30-26
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Crain Environmental
Project/Site: Bagley #4 SWD- Area 3

Job ID: 880-61881-1
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: Bagley #4 SWD- Area 3

Job ID: 880-61881-1
SDG: Lea Co, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-61881-1	S-5	Solid	08/22/25 09:30	08/25/25 09:54	0-3'
880-61881-2	S-6	Solid	08/22/25 09:35	08/25/25 09:54	0-3'

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14



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



880-61881 Chain of Custody

Page 1 of 1

www.xenco.com

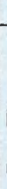
Work Order Comments				
Program: UST/PST	☐ RP	☐ ownfields	RR	☐ Surfund
State of Project: NM				
Reporting: Level II	☐ Level III	☐ PST/UST	☐ RRP	☐ Level IV
Deliverables: EDD	☐	AdAPT	☐	Other:

Project Manager:	Cindy Crain	Bill to: (if different)	Nicole Cornwell
Company Name:	Crain Environmental	Company Name:	BXP
Address:	2925 East 17th Street	Address:	11757 Katy Frwy., Ste 475
City, State ZIP:	Odessa, TX 79761	City, State ZIP:	Houston, TX 77079
Phone:	(575) 441-7244	Email:	cindy.crain@gmail.com

[illegible]

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

Notices: Signature of this document 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. Eurofins Xenco

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1			4/25/85 954			
3						
5						

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Crain Environmental

Job Number: 880-61881-1

SDG Number: Lea Co, NM

Login Number: 61881

List Number: 1

Creator: Vasquez, Julisa

List Source: Eurofins Midland

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



Appendix E - Photographic Documentation

Appendix E - Photographic Log
BXP Operating, LLC
Bagley SWD #4 - Area 3



View to S of N-S trench at Area 3 (6/19/25).



View to W of E-W trench at Area 3 (6/19/25).



View to SW of excavation (6/24/25).



View to N of excavation (6/24/25).



View to SE of excavation (8/22/25).



View to S of excavation (8/22/25).



Appendix F – Waste Manifests



NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST/DISPOSAL TICKET

Ticket Number
113988
06/20/25 02:22 PM

GENERATOR

Generator: BXP OPERATING LLC
Generator Contact:
11757 KATY FREEWAY
HOUSTON, TX 77079
Phone No.:Lease: BAGLEY 004 SWD- AREA 3
Location: BAGLEY 004 SWD- AREA 3
Job Contact: MECH MARCHANT
Phone Number: (575)631-7450
Email:

DISPOSAL FACILITY

Site Name/Permit No.: Commercial Landfill (NM-01-0019)
P.O. Box 1658
Roswell, NM 88202
Office (575) 347-0434
Fax (575)347-0435NORM Readings Taken: No
Reading > 50 micro roentgens: No
Pass the Paint Filter Test: No
Box Number:

WASTE MATERIAL

Material	Quantity	Cell
OCD EXEMPT SOILS	20.00 YDS	LF

TRANSPORTER

Name: MCVAY SERVICES
Address:
Phone No.:Driver Name:
Truck Number: 209
Phone No.:

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed above.


Driver Signature

C-138

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

☒ RCRA Exempt:

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

☐ RCRA NON-EXEMPT:

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

☐ MSDS Information☐ RCRA Hazardous Waste Analysis

Other (Provide Description Below)

☐ Emergency Non-Oilfield:

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

Name

Signature

KIMBERLY MURPHY

Name

Signature



NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST/DISPOSAL TICKET

Ticket Number
113985
06/20/25 12:46 PM

GENERATOR

Generator: BXP OPERATING LLC
Generator Contact:
11757 KATY FREEWAY
HOUSTON, TX 77079
Phone No.:Lease: BAGLEY 004 SWD- AREA 3
Location: BAGLEY 004 SWD- AREA 3
Job Contact: MECH MARCHANT
Phone Number: (575)631-7450
Email:

DISPOSAL FACILITY

Site Name/Permit No.: Commercial Landfill (NM-01-0019)
P.O. Box 1658
Roswell, NM 88202
Office (575) 347-0434
Fax (575)347-0435NORM Readings Taken: No
Reading > 50 micro roentgens: No
Pass the Paint Filter Test: No
Box Number:

WASTE MATERIAL

Material	Quantity	Cell
OCD EXEMPT SOILS	20.00 YDS	LF

TRANSPORTER

Name: MCVAY SERVICES
Address:
Phone No.:Driver Name:
Truck Number: 10479
Phone No.:

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed above.

Driver Signature

C-138

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

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

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

☐ MSDS Information☐ RCRA Hazardous Waste Analysis

Other (Provide Description Below)

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

Name

Signature

KIMBERLY MURPHY

Name

Signature



NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST/DISPOSAL TICKET

Ticket Number
113982
06/20/25 09:38 AM

GENERATOR

Generator: BXP OPERATING LLC
Generator Contact:
11757 KATY FREEWAY
HOUSTON, TX 77079
Phone No.:Lease: BAGLEY 004 SWD- AREA 3
Location: BAGLEY 004 SWD- AREA 3
Job Contact: MECH MARCHANT
Phone Number: (575)631-7450
Email:

DISPOSAL FACILITY

Site Name/Permit No.: Commercial Landfill (NM-01-0019)
P.O. Box 1658
Roswell, NM 88202
Office (575) 347-0434
Fax (575)347-0435NORM Readings Taken: No
Reading > 50 micro roentgens: No
Pass the Paint Filter Test: No
Box Number:

WASTE MATERIAL

Material	Quantity	Cell
OCD EXEMPT SOILS	20.00 YDS	LF

TRANSPORTER

Name: MCVAY SERVICES
Address:
Phone No.:Driver Name:
Truck Number: 209-10479
Phone No.: (575)397-3311

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed above.

Driver Signature

C-138

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

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

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

☐ MSDS Information☐ RCRA Hazardous Waste Analysis

Other (Provide Description Below)

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

Name

Signature

KIMBERLY MURPHY

Name

Signature



NEW MEXICO NON-HAZARDOUS OILFIELD WASTE MANIFEST/DISPOSAL TICKET

Ticket Number
113984
06/20/25 11:12 AM

GENERATOR

Generator: BXP OPERATING LLC
Generator Contact:
11757 KATY FREEWAY
HOUSTON, TX 77079
Phone No.:Lease: BAGLEY 004 SWD- AREA 3
Location: BAGLEY 004 SWD- AREA 3
Job Contact: MECH MARCHANT
Phone Number: (575)631-7450
Email:

DISPOSAL FACILITY

Site Name/Permit No.: Commercial Landfill (NM-01-0019)
P.O. Box 1658
Roswell, NM 88202
Office (575) 347-0434
Fax (575)347-0435NORM Readings Taken: No
Reading > 50 micro roentgens: No
Pass the Paint Filter Test: No
Box Number:

WASTE MATERIAL

Material	Quantity	Cell
OCD EXEMPT SOILS	20.00 YDS	LF

TRANSPORTER

Name: MCVAY SERVICES
Address:
Phone No.:Driver Name:
Truck Number: 209-10479
Phone No.:

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed above.

Driver Signature

C-138

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

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☐ MSDS Information☐ RCRA Hazardous Waste Analysis

Other (Provide Description Below)

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

Name

Signature

KIMBERLY MURPHY

Name

Signature

Sante Fe Main Office
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Online Phone Directory
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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS

Action 505780

QUESTIONS

Operator: BXP Operating, LLC 11757 KATY FREEWAY HOUSTON, TX 77079	OGRID: 329487
	Action Number: 505780
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2509978375
Incident Name	NAPP2509978375 BAGLEY SWD #004 @ 30-025-01015
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-025-01015] BAGLEY SWD #004

Location of Release Source	
<i>Please answer all the questions in this group.</i>	
Site Name	BAGLEY SWD #004
Date Release Discovered	11/20/2024
Surface Owner	State

Incident Details	
<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

Nature and Volume of Release	
<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: Corrosion Pipeline (Any) Produced Water Released: 0 BBL (Unknown Released Amount) Recovered: 0 BBL Lost: 0 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)	Upon request from the State Land Office (SLO) Environmental Compliance Office (ECO), a soil investigation was conducted in this barren area. Lab results received on 11/20/24 indicated that a historical release had occurred in this area. A Site Characterization Report and Remediation Workplan will be submitted that includes all historical releases on the Bagley SWD #004 State lease.

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QUESTIONS, Page 2

Action 505780

QUESTIONS (continued)

Operator: BXP Operating, LLC 11757 KATY FREEWAY HOUSTON, TX 77079	OGRID: 329487
	Action Number: 505780
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

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

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

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

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

I hereby agree and sign off to the above statement	Name: Bianca Guerrero Title: Regulatory manager Email: bguerrero@bxpltd.com Date: 09/14/2025
--	---

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QUESTIONS, Page 3

Action 505780

QUESTIONS (continued)

Operator: BXP Operating, LLC 11757 KATY FREEWAY HOUSTON, TX 77079	OGRID: 329487
	Action Number: 505780
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

Remediation Plan	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	1260
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	0
GRO+DRO (EPA SW-846 Method 8015M)	0
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
On what estimated date will the remediation commence	06/30/2025
On what date will (or did) the final sampling or liner inspection occur	07/15/2025
On what date will (or was) the remediation complete(d)	07/25/2025
What is the estimated surface area (in square feet) that will be reclaimed	4982
What is the estimated volume (in cubic yards) that will be reclaimed	738
What is the estimated surface area (in square feet) that will be remediated	4982
What is the estimated volume (in cubic yards) that will be remediated	738
<i>These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.</i>	
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 4

Action 505780

QUESTIONS (continued)

Operator: BXP Operating, LLC 11757 KATY FREEWAY HOUSTON, TX 77079	OGRID: 329487
	Action Number: 505780
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	fAB0000000061 TNM-55-95
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	No
OR is the off-site disposal site, to be used, an NMED facility	No
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Bianca Guerrero Title: Regulatory manager Email: bguerrero@bxpitd.com Date: 09/14/2025
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 505780

QUESTIONS (continued)

Operator: BXP Operating, LLC 11757 KATY FREEWAY HOUSTON, TX 77079	OGRID: 329487
	Action Number: 505780
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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QUESTIONS, Page 6

Action 505780

QUESTIONS (continued)

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	Action Number: 505780
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	496921
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/22/2025
What was the (estimated) number of samples that were to be gathered	2
What was the sampling surface area in square feet	570

Remediation Closure Request	
<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	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	570
What was the total volume (cubic yards) remediated	80
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	570
What was the total volume (in cubic yards) reclaimed	80
Summarize any additional remediation activities not included by answers (above)	Upon OCD approval of the Closure Report, the excavation will be backfilled to grade with non-impacted similar material obtained from a landowner pit. A five-point composite sample will be collected from the backfill material, and will be analyzed for TPH, BTEX, and chlorides. The remediated area will be restored to pre-release conditions. Surface grading will be performed to near original conditions and contoured to prevent erosion and ponding, promote stability, and preserve storm water flow patterns.
<i>The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.	
I hereby agree and sign off to the above statement	Name: Bianca Guerrero Title: Regulatory manager Email: bguerrero@bxpltd.com Date: 09/14/2025

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QUESTIONS, Page 7

Action 505780

QUESTIONS (continued)

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	Action Number: 505780
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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CONDITIONS

Action 505780

CONDITIONS

Operator: BXP Operating, LLC 11757 KATY FREEWAY HOUSTON, TX 77079	OGRID: 329487
	Action Number: 505780
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
scwells	None	9/23/2025