Released Volume Calculation

Length	200 feet
Width	200 feet
Thickness	0.5 in

20,000 gal = 476 Est. Total Bbls Released

Volume = L*W*T

Total Released Volume = 20,000 gallons (US, dry)

476 Bbls

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

Revised Site Characterization Report and Remediation Workplan

April 26, 2025

Bagley SWD #004
API 30-025-01015
Historical Produced Water Releases
Incident Nos.
nDEV1776
nAPP2509976410
nAPP2509977675
nAPP2509978375
nAPP2509978939
nAPP2509979883
nAPP2509980372
nAPP2509980836
nAPP2509974572 (Compliance cEZB2328943265)
Lea County, New Mexico

Prepared For:

BXP Operating, LLC
11757 Katy Freeway, Suite 475
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Prepared By:

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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 Site Characterization Report and Remediation Workplan for the produced water releases at Bagley SWD #004 (Site), located in in Unit Letter N, Section 35, Township 11 South, Range 33 East, Lea County, New Mexico, at Global Positioning Coordinates (GPS) 33.3168983, -103.5868378. 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 and cattle grazing. No surface water is present in the area and vegetation is sparse.

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.

This Revised Site Characterization Report and Remediation Workplan has been prepared in accordance with 19.15.29.11 New Mexico Administrative Code (NMAC). As horizontal and vertical delineation activities during excavation/remediation activities are commonly approved by the NMOCD, BXP has elected to conduct horizontal and vertical delineation activities during excavation/remediation. As 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 have been removed from the Revised Workplan.

As remediation of each Incident # included in this 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 are being included in this Revised Site Characterization Report and Remediation Workplan, and this Workplan will be submitted to the NMOCD for each Incident listed in the title.

Upon completion of the remediation of each Incident, a separate Closure Report will be submitted to the NMOCD for that Incident.

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.
  - No continuously flowing watercourses (rivers, streams, arroyos, etc.) are apparent within 300 feet of the Site in the aerial map (Figure 3).
- Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary highwater mark).
  - The aerial map (Figure 3) indicates there is not a lakebed, sinkhole or playa lake located within 200 feet of the Site.
- Within 300 feet from an occupied permanent residence, school, hospital, institution or church.
  - The Site Location Map (Figure 1) and information available from the Lea County, New Mexico Central Appraisal District do not show or list any permanent residence, school, hospital, institution or church located within 300 feet of the Site.
- Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes.
  - No wells or springs located within 500 feet of the Site appear in any of the NMOSE records reviewed by CE.
- Within 1,000 feet of any fresh water well or spring.
  - No freshwater wells or springs located within 1,000 feet of the Site appear in any of the records reviewed by CE.
- Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to Section 3-27-3 NMSA 1978 as amended.
  - Based on the property and other records review by CE, the Site is not located in incorporated municipal boundaries or within a defined municipal fresh water well field.
- Within the area overlying a subsurface mine.
  - Based on the property and other records reviewed by CE, the Site is not located within an area overlying a subsurface mine.

3.3 Wetlands, Floodplain, and Karst Geology

A review of the United States Fish and Wildlife Service (USFWS) wetlands map indicated the Site is not located within 300 feet of a wetland. 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.

Grain Environmental

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 Initial Delineation Activities

On November 20, 2024, soil samples were collected from 21 locations (S-1 to S-21) as approved by the ECO in the Site Assessment Workplan. Test holes were dug using a backhoe, and samples were collected from each test hole at the surface (0-6") and at the total depth of the test hole. Each hole was dug until backhoe refusal was encountered at a hard rock surface that could not be penetrated with a backhoe.

All samples were placed in laboratory prepared containers, properly labeled, immediately placed on ice, and hand delivered to Eurofins Environment Testing (Eurofins) in Midland, Texas for analysis of total petroleum hydrocarbons (TPH) by EPA Method 8015 Modified, benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, and chlorides by EPA Method 300.0.

Table 1 provides a summary of laboratory results. Figure 7 shows the sample locations and concentrations. Appendix B provides a copy of the laboratory report and chain of custody documentation. Appendix C 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 or Closure Criteria in each sample. Concentrations of TPH were reported above the Closure Criteria in samples S-5 at 3' below ground surface (bgs) [890 milligrams per kilogram (mg/kg)] and S-20 at 0-6" bgs (109 mg/kg). All other samples reported TPH concentrations below the test method detection limits or Closure Criteria. Concentrations of chlorides were reported above the Closure Criteria in the deepest samples at each location except sample points S-14, S-19, S-20, and S-21.

4.6 Laboratory Analytical Data Quality Assurance/Quality Control Results

Laboratory data in Report Number 880-51419-1 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 B.

5.0 Proposed Remediation and Reclamation 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 NMCRIS Activity Number 157575 is included as Appendix D.

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 E.

Concentrations of benzene and BTEX were reported below the test method detection limits or Closure Criteria in each sample. Concentrations of TPH were reported above the Closure Criteria in samples S-5 at 3' below ground surface (bgs) [890 milligrams per kilogram (mg/kg)] and S-20 at 0-6" bgs (109 mg/kg). All other samples reported TPH concentrations below the test method detection limits or Closure Criteria. Concentrations of chlorides were reported above the Closure Criteria in the deepest samples at each location except sample points S-14, S-19, S-20, and S-21.

BXP proposes to excavate all impacted soil at each sample point in each area of concern until five-point confirmation samples collected from the bottom and sidewalls of each excavation report TPH, BTEX, and chloride concentrations below the most stringent NMOCD Closure Criteria (i.e. complete vertical and horizontal delineation of each release area will be conducted during remediation).

All excavated soil from each area will be disposed of at an NMOCD approved disposal facility. Figure 2 shows the areas proposed for remediation. The remediation areas cover a surface area of approximately 195,150 square feet, and it is estimated that approximately 28,911 cubic yards of soil will be hauled to disposal.

Upon receipt of laboratory results that all TPH, BTEX, and chloride concentrations are below the Closure Criteria, the excavations will be backfilled to grade with non-impacted similar material obtained from a landowner pit. Pursuant to 19.15.29.13 NMAC, the impacted surface areas will be restored to pre-release conditions. Surface grading will be performed to near original conditions and contoured to prevent erosion and ponding, promote stability, and preserve storm water flow patterns.

Seeding of all remediated areas outside the tank battery will be conducted during the next favorable growing season following completion of remediation. 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.

Upon completion of remediation at each Incident area and receipt of laboratory results below the Closure Criteria, a Closure Report will be submitted to the NMOCD. The Closure Report will include photographs of the excavation, laboratory results with chain-of-custody documentation, and a scaled map of the excavation.

6.0 Schedule of Implementation

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

The remediation areas cover a surface area of approximately 195,150 square feet, and it is estimated that approximately 28,911 cubic yards of soil will be hauled to disposal.

BXP proposes to conduct remediation activities at areas in the following order. The estimated surface area (ft^2) and estimated cubic yards (cy) of soil for each area of remediation are provided below. Estimated yardage is based on a 4’ bgs depth of excavation.

- Area 6 (Incident nAPP2509979883) 2,021 ft^2 300 cy
- Area 5 (Incident nAPP2509978939) 43,195 ft^2 6,400 cy
- Area 3 (Incident nAPP2509978375) 4,982 ft^2 738 cy
- Area 2 (Incident nAPP2509977675) 750 ft^2 110 cy
- Area 1 (Incident nAPP2509976410) 7,506 ft^2 1,112 cy
- Area 8 (Incident nAPP2509980836) 4,710 ft^2 698 cy
- Area 7 (Incident nAPP2509980372) 3,186 ft^2 472 cy
- Area 9 (Incident nAPP2509974572) 88,800 ft^2 13,155 cy
- Area 4 (Incident nDEV1776). 40,000 ft^2 5,926 cy

The location of Incident areas on provided on Figure 2. As the area of remediation is quite large and includes multiple Incidents, BXP respectfully requests a remediation schedule of 180 days from the date of NMOCD approval of this Revised Remediation Workplan to complete the proposed remediation activities. Closure Reports will be submitted for each Incident area upon completion of remediation. It is estimated that remediation and reclamation of all areas of concern will be completed by the end of 2025, and extension requests (beyond 180 days) may be necessary as remediation progresses.

7.0 Distribution

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

Copy 2: Environmental Compliance Office
ECO@nmslo.gov

TABLE

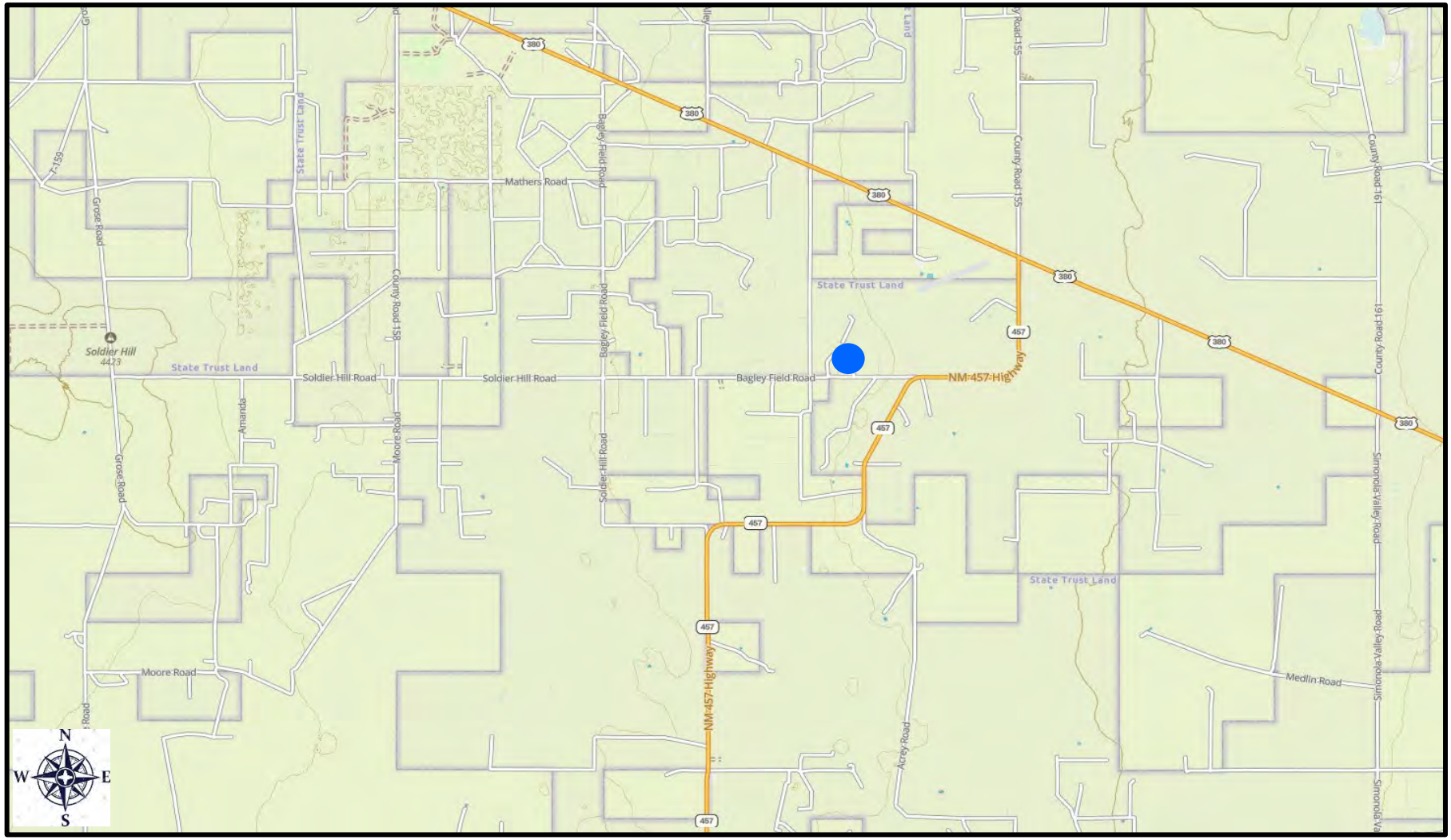
Table 1
Summary of Soil Sample Analyses
BXP Operating, LLC
Bagley SWD #004

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
S-1 (0-6")	11/20/24	0-6"	In Situ	<14.4	<15.0	<15.0	<15.0	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	**552**
S-1 (4.1')	11/20/24	4.1'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00141	**0.00270**	**0.00630**	<0.00231	**0.0106**	**1,170**
S-2 (0-6")	11/20/24	0-6"	In Situ	<15.1	<15.1	<15.1	<15.1	<0.00140	<0.00201	<0.00109	<0.00229	<0.00229	**589**
S-2 (1.5')	11/20/24	1.5'	In Situ	<14.5	**57.9**	<15.1	**57.9**	<0.00139	<0.00200	<0.00109	<0.00229	<0.00229	**5,190**
S-3 (0-6")	11/20/24	0-6"	In Situ	<14.5	**18.7 J**	<15.1	**18.7 J**	<0.00139	<0.00199	<0.00108	<0.00228	<0.00228	**1,800**
S-3 (2')	11/20/24	2'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00140	<0.00201	<0.00110	<0.00230	<0.00230	**3,400**
S-4 (0-6")	11/20/24	0-6"	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00139	<0.00200	<0.00109	<0.00229	<0.00229	**3,650**
S-4 (1.5')	11/20/24	1.5'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	**3,010**
S-5 (0-6")	11/20/24	0-6"	In Situ	<14.5	18.3 J	<15.1	18.3 J	<0.00138	<0.00198	<0.00108	<0.00227	<0.00227	**6,350**
S-5 (3')	11/20/24	3'	In Situ	**30.6 J**	**859**	<15.1	**890**	<0.00139	**0.00960**	**0.0564**	**0.0764**	**0.142**	**2,120**
S-6 (0-6")	11/20/24	0-6"	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00139	<0.00200	<0.00109	**0.00826**	**0.00826**	**1,120**
S-6 (4')	11/20/24	4'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00140	<0.00202	<0.00110	<0.00230	<0.00230	**2,610 F1**
S-7 (0-6")	11/20/24	0-6"	In Situ	<14.4	<15.0	<15.0	<15.0	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	**181**
S-7 (2')	11/20/24	2'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00140	<0.00201	<0.00109	<0.00229	<0.00229	**1,330**
S-8 (0-6")	11/20/24	0-6"	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00140	<0.00202	<0.00110	<0.00230	<0.00230	**2,900**
S-8 (2')	11/20/24	2'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	**1,890**
S-9 (0-6")	11/20/24	0-6"	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00138	<0.00198	<0.00108	<0.00227	<0.00227	**14,400**
S-9 (2')	11/20/24	2'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00140	<0.00202	<0.00110	<0.00230	<0.00230	**6,470**
S-10 (0-6")	11/20/24	0-6"	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	**1,820**
S-10 (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	**825**
S-11 (0-6")	11/20/24	0-6"	In Situ	<14.4	<15.0	<15.0	<15.0	<0.00140	<0.00202	<0.00110	<0.00230	<0.00230	**2,970**
S-11 (2')	11/20/24	2'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00138	<0.00198	<0.00108	<0.00227	<0.00227	**764**
S-12 (0-6")	11/20/24	0-6"	In Situ	<14.4	<15.0	<15.0	<15.0	<0.00140	<0.00201	<0.00109	<0.00229	<0.00229	**1,520**
S-12 (2')	11/20/24	2'	In Situ	<14.4	<15.0	<15.0	<15.0	<0.00140	<0.00202	<0.00110	<0.00230	<0.00230	**838**
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**
S-14 (0-6")	11/20/24	0-6"	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	**888**
S-14 (1.5')	11/20/24	1.5'	In Situ	<14.5	**62.8**	<15.1	**62.8**	<0.00138	<0.00198	<0.00108	<0.00226	<0.00226	**506**
S-15 (0-6")	11/20/24	0-6"	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00140	<0.00201	<0.00110	<0.00230	<0.00230	**4,040**
S-15 (2')	11/20/24	2'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00140	<0.00201	<0.00109	<0.00229	<0.00229	**2,370**
S-16 (0-6")	11/20/24	0-6"	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	**1,980**
S-16 (1.5')	11/20/24	1.5'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00139	<0.00200	<0.00109	<0.00229	<0.00229	**1,880**
S-17 (0-6")	11/20/24	0-6"	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00139	<0.00199	<0.00108	<0.00228	<0.00228	**210**
S-17 (1.5')	11/20/24	1.5'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00140	<0.00201	<0.00109	<0.00229	<0.00229	**2,420 F1**
S-18 (0-6")	11/20/24	0-6"	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00141	<0.00202	<0.00110	<0.00231	<0.00231	**145**
S-18 (1.5')	11/20/24	1.5'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00140	<0.00202	<0.00110	<0.00230	<0.00230	**1,500**
S-19 (0-6")	11/20/24	0-6"	In Situ	<14.5	**26.8 J**	<15.1	**26.8 J**	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	**874**
S-19 (2')	11/20/24	2'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00141	<0.00202	<0.00110	<0.00231	<0.00231	**574**
S-20 (0-6")	11/20/24	0-6"	In Situ	<14.5	**109**	<15.1	**109**	<0.00138	<0.00198	<0.00108	<0.00227	<0.00227	**1,500**
S-20 (4.1')	11/20/24	4.1'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00140	<0.00201	<0.00109	<0.00229	<0.00229	**408**
S-21 (0-6")	11/20/24	0-6"	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	**726**
S-21 (2')	11/20/24	2'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00139	**0.00438**	**0.0209**	**0.0815**	**0.107**	**175 F1**

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. F1: MS and/or MSD recovery exceeds control limits.
9. 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

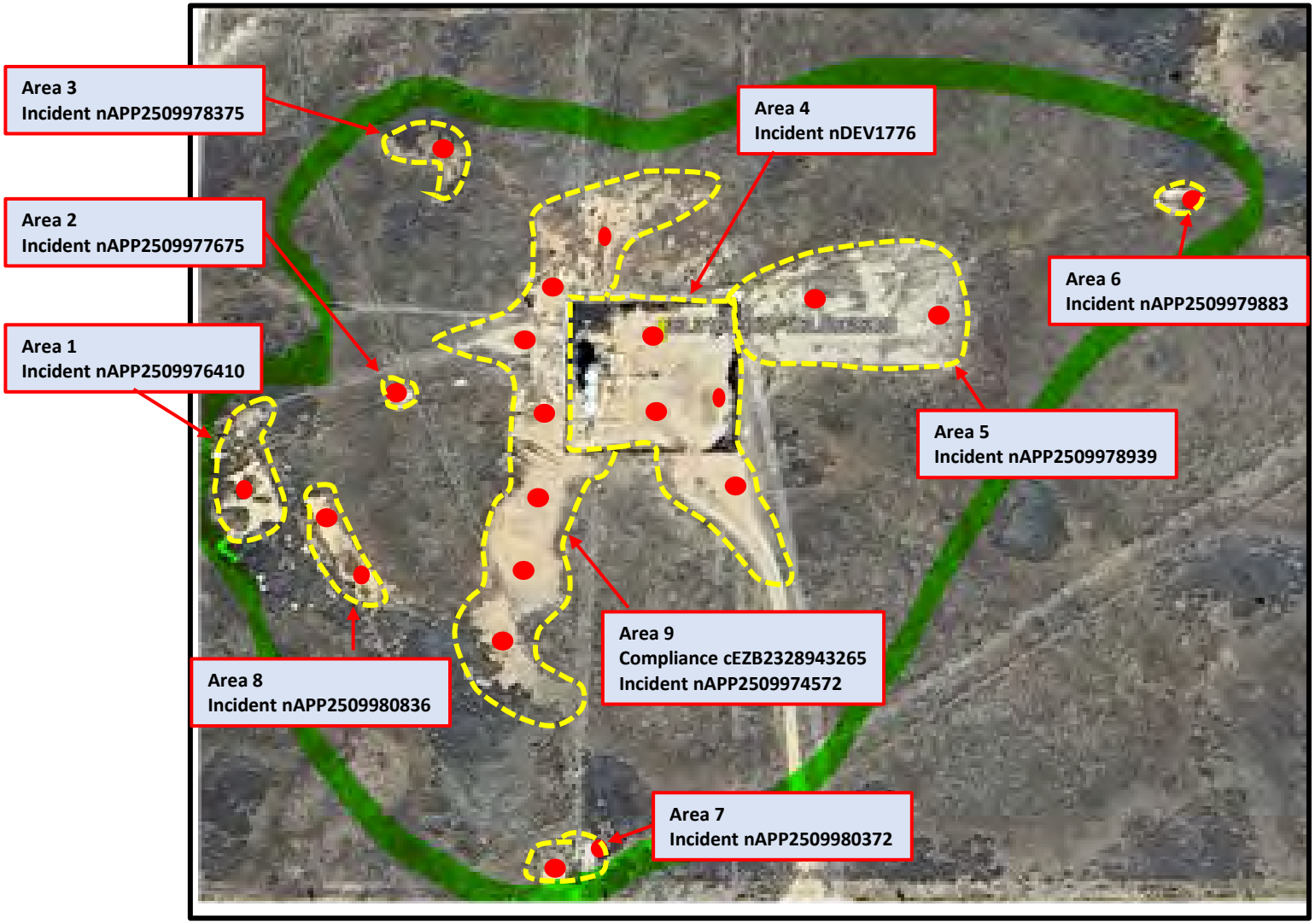
Lea County, New Mexico

Drafted by: CC | Checked by: CC

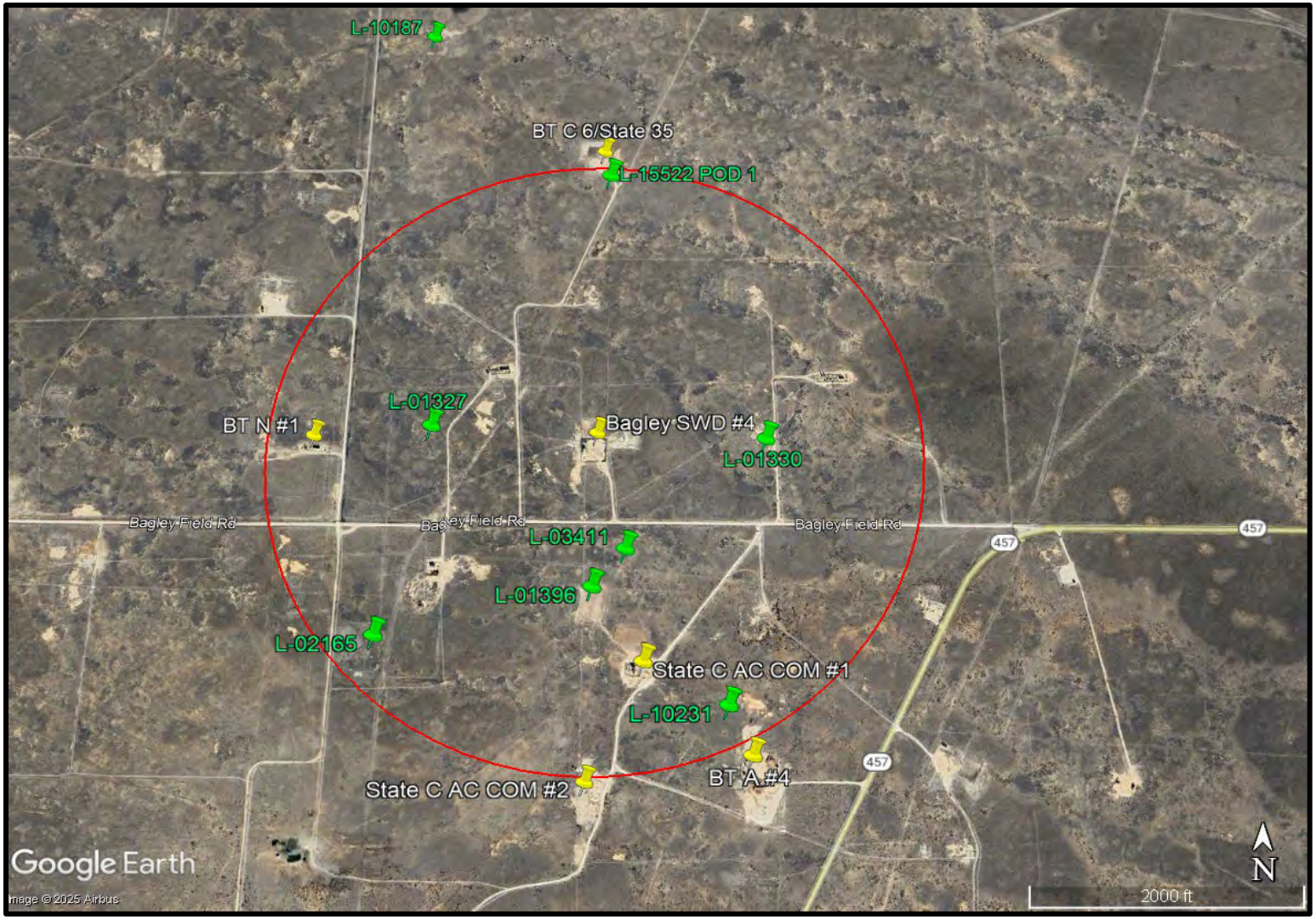
Draft: April 10, 2025

GPS: 33.3168983° -103.5868378°

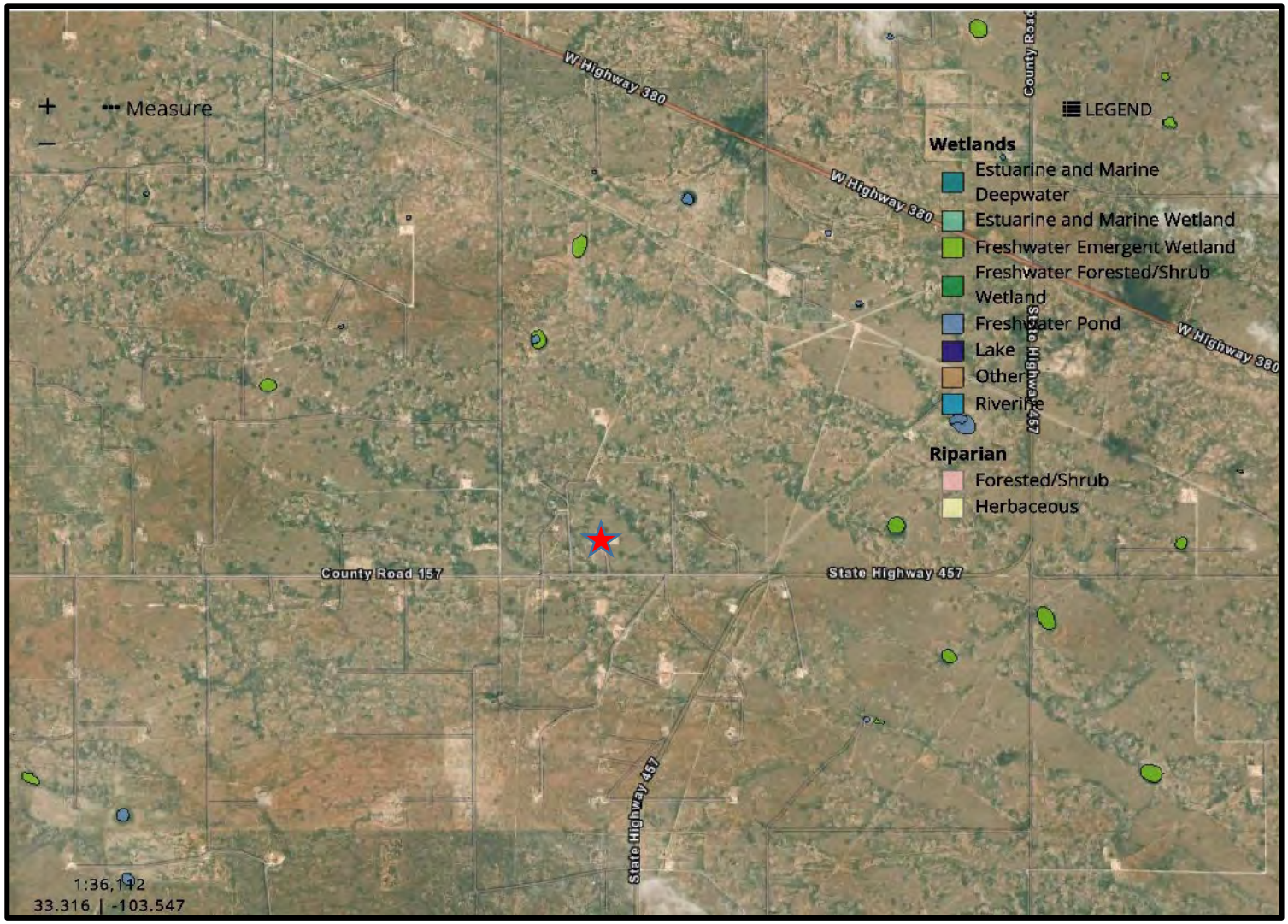
Grain Environmental



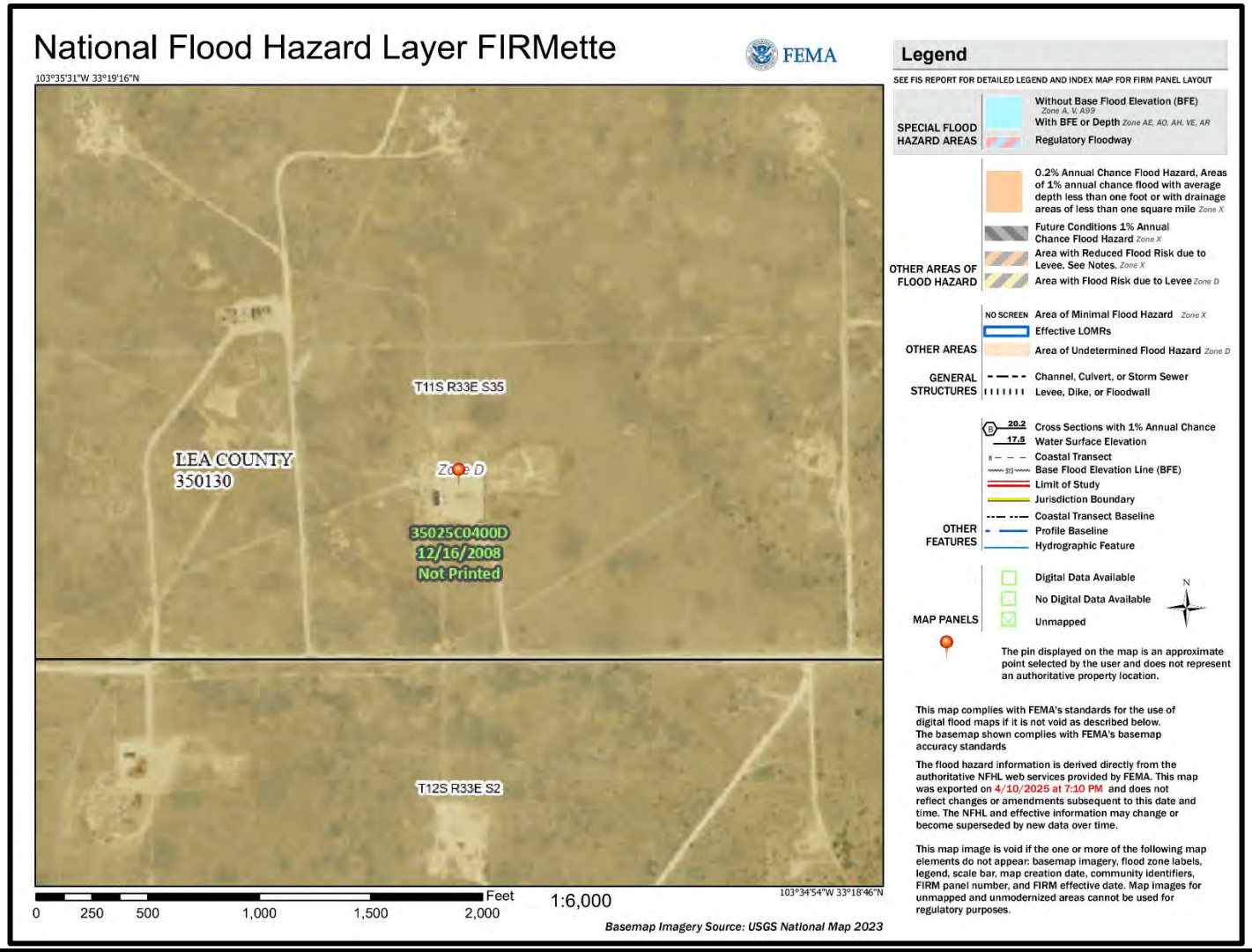
LEGEND:	Figure 2		
Investigation Sample Location	Estimated Remediation Area Boundaries	Drafted by: CC | Checked by: CC	Grain Environmental
ECO Investigation Boundary	BXP Operating, LLC	Draft: April 10, 2025	
Estimated Remediation Area Boundaries with Area and Incident Number	Bagley SWD #004	GPS: 33.3168983° -103.5868378°	
Base Map from Google Earth Pro	Lea County, New Mexico		



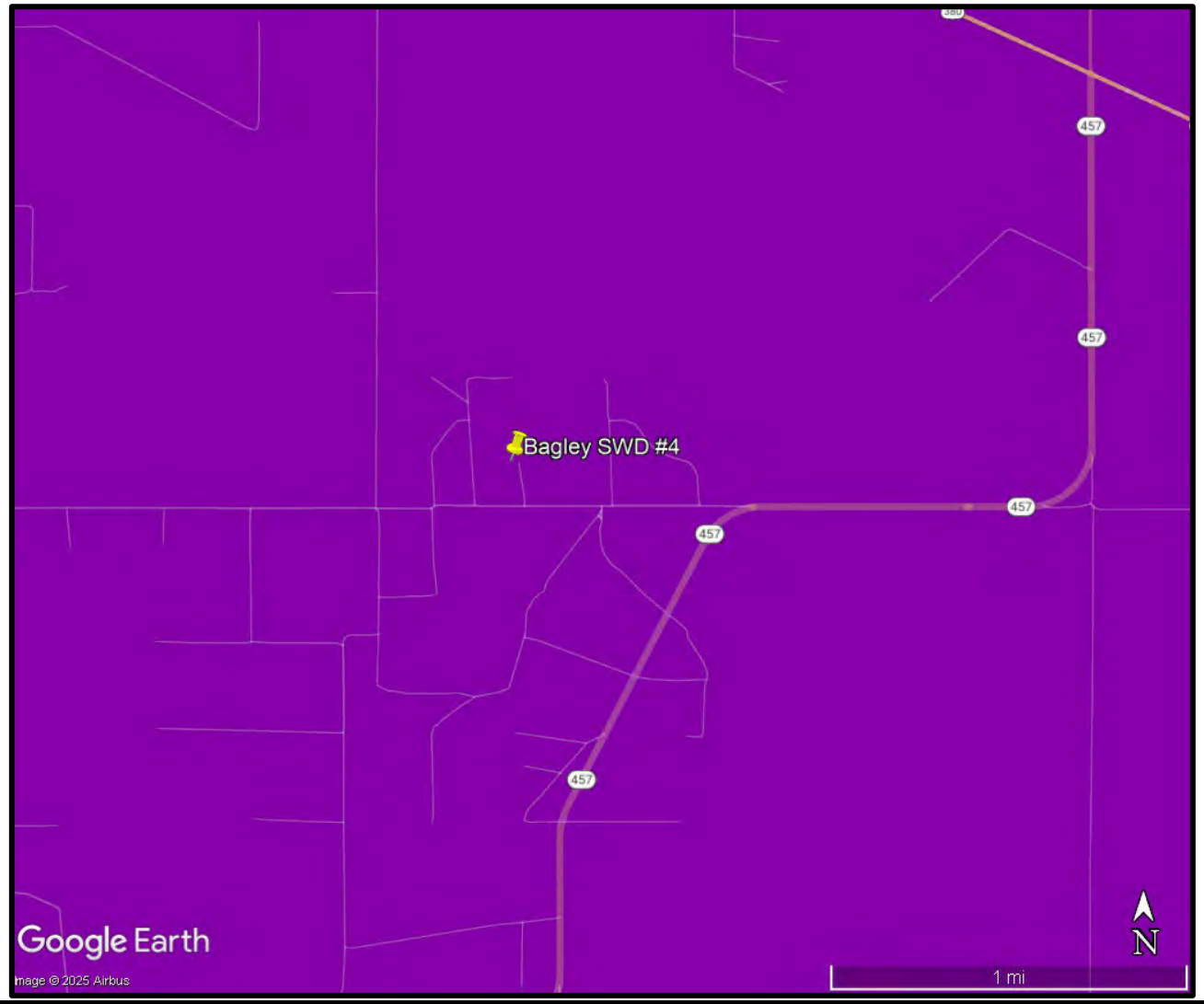
LEGEND: Site and Well Location Base Map from Google Earth Pro	**Figure 3** **Wellhead Protection Area Map** Site Location Map BXP Operating, LLC Bagley SWD #004 Lea County, New Mexico	Drafted by: CC | Checked by: CC Draft: April 10, 2025 GPS: 33.3168983° -103.5868378°	Grain Environmental



LEGEND: Site Location Base Map from US Fish & Wildlife Service	**Figure 4** **National Wetlands Inventory Map** Site Location Map BXP Operating, LLC Bagley SWD #004 Lea County, New Mexico	Drafted by: CC | Checked by: CC Draft: April 10, 2025 GPS: 33.3168983° -103.5868378°	Grain Environmental



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: April 10, 2025 GPS: 33.3168983° -103.5868378°



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

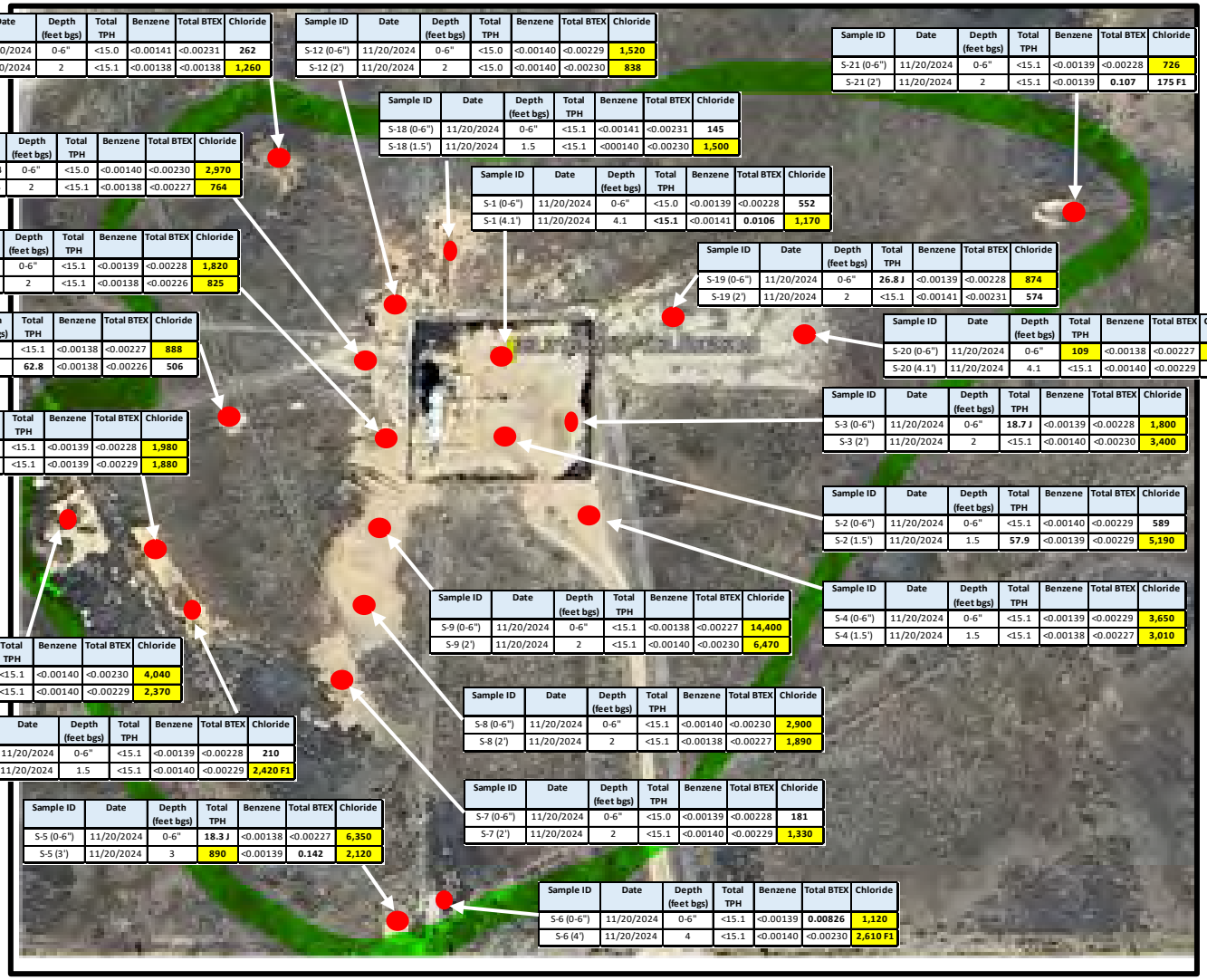
Lea County, New Mexico

Drafted by: CC | Checked by: CC

Draft: April 10, 2025

GPS: 33.3168983° -103.5868378°

Grain Environmental



Sample ID	Date	Depth (feet bgs)	Total TPH	Benzene	Total BTEX	Chloride
S-13 (0-6")	11/20/2024	0-6"	<15.0	<0.00141	<0.00231	262
S-13 (2')	11/20/2024	2	<15.1	<0.00138	<0.00138	1,260

Sample ID	Date	Depth (feet bgs)	Total TPH	Benzene	Total BTEX	Chloride
S-12 (0-6")	11/20/2024	0-6"	<15.0	<0.00140	<0.00229	1,520
S-12 (2')	11/20/2024	2	<15.0	<0.00140	<0.00230	838

Sample ID	Date	Depth (feet bgs)	Total TPH	Benzene	Total BTEX	Chloride
S-21 (0-6")	11/20/2024	0-6"	<15.1	<0.00139	<0.00228	726
S-21 (2')	11/20/2024	2	<15.1	<0.00139	0.107	175 F1

Sample ID	Date	Depth (feet bgs)	Total TPH	Benzene	Total BTEX	Chloride
S-18 (0-6")	11/20/2024	0-6"	<15.1	<0.00141	<0.00231	145
S-18 (1.5')	11/20/2024	1.5	<15.1	<000140	<0.00230	1,500

Sample ID	Date	Depth (feet bgs)	Total TPH	Benzene	Total BTEX	Chloride
S-11 (0-6")	11/20/2024	0-6"	<15.0	<0.00140	<0.00230	2,970
S-11 (2')	11/20/2024	2	<15.1	<0.00138	<0.00227	764

Sample ID	Date	Depth (feet bgs)	Total TPH	Benzene	Total BTEX	Chloride
S-1 (0-6")	11/20/2024	0-6"	<15.0	<0.00139	<0.00228	552
S-1 (4.1')	11/20/2024	4.1	<15.1	<0.00141	0.0106	1,170

Sample ID	Date	Depth (feet bgs)	Total TPH	Benzene	Total BTEX	Chloride
S-10 (0-6")	11/20/2024	0-6"	<15.1	<0.00139	<0.00228	1,820
S-10 (2')	11/20/2024	2	<15.1	<0.00138	<0.00226	825

Sample ID	Date	Depth (feet bgs)	Total TPH	Benzene	Total BTEX	Chloride
S-19 (0-6")	11/20/2024	0-6"	26.8 J	<0.00139	<0.00228	874
S-19 (2')	11/20/2024	2	<15.1	<0.00141	<0.00231	574

Sample ID	Date	Depth (feet bgs)	Total TPH	Benzene	Total BTEX	Chloride
S-14 (0-6")	11/20/2024	0-6"	<15.1	<0.00138	<0.00227	888
S-14 (1.5')	11/20/2024	1.5	62.8	<0.00138	<0.00226	506

Sample ID	Date	Depth (feet bgs)	Total TPH	Benzene	Total BTEX	Chloride
S-20 (0-6")	11/20/2024	0-6"	109	<0.00138	<0.00227	1,500
S-20 (4.1')	11/20/2024	4.1	<15.1	<0.00140	<0.00229	408

Sample ID	Date	Depth (feet bgs)	Total TPH	Benzene	Total BTEX	Chloride
S-16 (0-6")	11/20/2024	0-6"	<15.1	<0.00139	<0.00228	1,980
S-16 (1.5')	11/20/2024	1.5	<15.1	<0.00139	<0.00229	1,880

Sample ID	Date	Depth (feet bgs)	Total TPH	Benzene	Total BTEX	Chloride
S-3 (0-6")	11/20/2024	0-6"	18.7 J	<0.00139	<0.00228	1,800
S-3 (2')	11/20/2024	2	<15.1	<0.00140	<0.00230	3,400

Sample ID	Date	Depth (feet bgs)	Total TPH	Benzene	Total BTEX	Chloride
S-2 (0-6")	11/20/2024	0-6"	<15.1	<0.00140	<0.00229	589
S-2 (1.5')	11/20/2024	1.5	57.9	<0.00139	<0.00229	5,190

Sample ID	Date	Depth (feet bgs)	Total TPH	Benzene	Total BTEX	Chloride
S-4 (0-6")	11/20/2024	0-6"	<15.1	<0.00139	<0.00229	3,650
S-4 (1.5')	11/20/2024	1.5	<15.1	<0.00138	<0.00227	3,010

Sample ID	Date	Depth (feet bgs)	Total TPH	Benzene	Total BTEX	Chloride
S-9 (0-6")	11/20/2024	0-6"	<15.1	<0.00138	<0.00227	14,400
S-9 (2')	11/20/2024	2	<15.1	<0.00140	<0.00230	6,470

Sample ID	Date	Depth (feet bgs)	Total TPH	Benzene	Total BTEX	Chloride
S-15 (0-6")	11/20/2024	0-6"	<15.1	<0.00140	<0.00230	4,040
S-15 (2')	11/20/2024	2	<15.1	<0.00140	<0.00229	2,370

Sample ID	Date	Depth (feet bgs)	Total TPH	Benzene	Total BTEX	Chloride
S-8 (0-6")	11/20/2024	0-6"	<15.1	<0.00140	<0.00230	2,900
S-8 (2')	11/20/2024	2	<15.1	<0.00138	<0.00227	1,890

Sample ID	Date	Depth (feet bgs)	Total TPH	Benzene	Total BTEX	Chloride
S-17 (0-6")	11/20/2024	0-6"	<15.1	<0.00139	<0.00228	210
S-17 (1.5')	11/20/2024	1.5	<15.1	<0.00140	<0.00229	2,420 F1

Sample ID	Date	Depth (feet bgs)	Total TPH	Benzene	Total BTEX	Chloride
S-7 (0-6")	11/20/2024	0-6"	<15.0	<0.00139	<0.00228	181
S-7 (2')	11/20/2024	2	<15.1	<0.00140	<0.00229	1,330

Sample ID	Date	Depth (feet bgs)	Total TPH	Benzene	Total BTEX	Chloride
S-5 (0-6")	11/20/2024	0-6"	18.3 J	<0.00138	<0.00227	6,350
S-5 (3')	11/20/2024	3	890	<0.00139	0.142	2,120

Sample ID	Date	Depth (feet bgs)	Total TPH	Benzene	Total BTEX	Chloride
S-6 (0-6")	11/20/2024	0-6"	<15.1	<0.00139	0.00826	1,120
S-6 (4')	11/20/2024	4	<15.1	<0.00140	<0.00230	2,610 F1

LEGEND:

- Sample Location with Concentrations (mg/kg).
- ECO Investigation Boundary
- Highlighting Indicates Concentrations Above the Closure Criteria

Figure 7

Sample Location Map

BXP Operating, LLC
Bagley SWD #004
Lea County, New Mexico

Drafted by: CC | Checked by: CC

Draft: April 10, 2025

GPS: 33.3168983° -103.5868378°

Grain Environmental

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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

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Point of Diversion Summary

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

NAD83 UTM in meters

Well Tag	POD Nbr	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map
	L 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

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Point of Diversion Summary

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

NAD83 UTM in meters

Well Tag	POD Nbr	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map
	L 01396		NE	NW	02	12S	33E	631552.0	3686905.0 *	

*** UTM location was derived from PLSS - see Help**

Driller License:	33	**Driller Company:**	TATUM CLAUDE E.		
Driller Name:	TATUM, CLAUDE E.				
Drill Start Date:	1952-03-05	**Drill Finish Date:**	1952-03-06	**Plug Date:**	1952-11-13
Log File Date:	1952-04-03	**PCW Rcv Date:**	1953-10-22	**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	
Casing Size:	6.00	**Depth Well:**	126	**Depth Water:**	45

Water Bearing Stratifications:

Top	Bottom	Description
45	126	Sandstone/Gravel/Conglomerate

Casing Perforations:

Top	Bottom
100	126

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Point of Diversion Summary

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

NAD83 UTM in meters

Well Tag	POD Nbr	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map
	L 03411	NE	NE	NW	02	12S	33E	631651.0	3687004.0 *	

*** UTM location was derived from PLSS - see Help**

Driller License:	183	**Driller Company:**	CAYTON WATER WELL DRILLING CO		
Driller Name:	JACK CLAYTON				
Drill Start Date:	1957-01-28	**Drill Finish Date:**	1957-01-30	**Plug Date:**	
Log File Date:	1957-02-21	**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	
Casing Size:	7.00	**Depth Well:**	121	**Depth Water:**	50

Water Bearing Stratifications:

Top	Bottom	Description
50	70	Sandstone/Gravel/Conglomerate
90	105	Sandstone/Gravel/Conglomerate

Casing Perforations:

Top	Bottom
50	121

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Grain Environmental

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

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 11/27/2024 1:05:45 PM

JOB DESCRIPTION

Bagley #4 SWD
Lea County NM

JOB NUMBER

880-51419-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Released to Imaging: 5/6/2025 3:16:00 PM

my EOL

Eurofins Midland

Job Notes

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

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

Authorization

Generated
11/27/2024 1:05:45 PM

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

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Definitions/Glossary

Client: Crain Environmental
Job ID: 880-51419-1
Project/Site: Bagley #4 SWD
SDG: Lea County NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD 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.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD 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.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
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

Definitions/Glossary

Client: Crain Environmental
Job ID: 880-51419-1
Project/Site: Bagley #4 SWD
SDG: Lea County NM

Glossary (Continued)

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

Case Narrative

Client: Crain Environmental
Project: Bagley #4 SWD

Job ID: 880-51419-1

Job ID: 880-51419-1 Eurofins Midland

Job Narrative
880-51419-1

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 11/22/2024 11:58 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 3.5°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: S-1 (0-6") (880-51419-1), S-1 (1') (880-51419-2), S-1 (2') (880-51419-3), S-1 (3') (880-51419-4), S-1 (4.1') (880-51419-5), S-2 (0-6") (880-51419-6), S-2 (1') (880-51419-7), S-2 (1.5') (880-51419-8), S-3 (0-6") (880-51419-9), S-3 (1') (880-51419-10), S-3 (2') (880-51419-11), S-4 (0-6") (880-51419-12), S-4 (1') (880-51419-13), S-4 (1.5') (880-51419-14), S-5 (0-6") (880-51419-15), S-5 (1') (880-51419-16), S-5 (2') (880-51419-17), S-5 (3') (880-51419-18), S-6 (0-6") (880-51419-19), S-6 (1') (880-51419-20), S-6 (2') (880-51419-21), S-6 (3') (880-51419-22), S-6 (4') (880-51419-23), S-7 (0-6") (880-51419-24), S-7 (1') (880-51419-25), S-7 (2') (880-51419-26), S-8 (0-6") (880-51419-27), S-8 (1') (880-51419-28), S-8 (2') (880-51419-29), S-9 (0-6") (880-51419-30), S-9 (1') (880-51419-31), S-9 (2') (880-51419-32), S-10 (0-6") (880-51419-33), S-10 (1') (880-51419-34), S-10 (2') (880-51419-35), S-11 (0-6") (880-51419-36), S-11 (1') (880-51419-37), S-11 (2') (880-51419-38), S-12 (0-6") (880-51419-39), S-12 (1') (880-51419-40), S-12 (2') (880-51419-41), S-14 (0-6") (880-51419-42), S-14 (1') (880-51419-43), S-14 (1.5') (880-51419-44), S-15 (0-6") (880-51419-45), S-15 (1') (880-51419-46), S-15 (2') (880-51419-47), S-16 (0-6") (880-51419-48), S-16 (1') (880-51419-49), S-16 (1.5') (880-51419-50), S-17 (0-6") (880-51419-51), S-17 (1') (880-51419-52), S-17 (1.5') (880-51419-53), S-13 (0-6") (880-51419-54), S-13 (1') (880-51419-55), S-13 (2') (880-51419-56), S-18 (0-6") (880-51419-57), S-18 (1') (880-51419-58), S-18 (1.5') (880-51419-59), S-19 (0-6") (880-51419-60), S-19 (1') (880-51419-61), S-19 (2') (880-51419-62), S-20 (0-6") (880-51419-63), S-20 (1') (880-51419-64), S-20 (2') (880-51419-65), S-20 (3') (880-51419-66), S-20 (4.1') (880-51419-67), S-21 (0-6") (880-51419-68), S-21 (1') (880-51419-69) and S-21 (2') (880-51419-70).

GC VOA
Method 8021B: Surrogate recovery for the following samples were outside control limits: S-21 (2') (880-51419-70), (880-51418-A-41-G) and (880-51418-A-41-E MS). Evidence of matrix interferences is not obvious.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-96418 and analytical batch 880-96439 was outside the upper control limits.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-96418 and analytical batch 880-96439 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: S-5 (3') (880-51419-18). Evidence of matrix interferences is not obvious.

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

Diesel Range Organics
Method 8015MOD_NM: The method blank for preparation batch 880-96419 and analytical batch 880-96493 contained Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: (LCS

Case Narrative

Client: Crain Environmental
Project: Bagley #4 SWD

Job ID: 880-51419-1

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Eurofins Midland

880-96419/2-A) and (LCSD 880-96419/3-A). Percent recoveries are based on the amount spiked.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-96451 recovered above the upper control limit for Diesel Range Organics (Over C10-C28). An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-96451/71).

Method 8015MOD_NM: The matrix spike duplicate (MSD) recoveries for preparation batch 880-96467 and analytical batch 880-96624 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: S-1 (4.1') (880-51419-5) and S-21 (2') (880-51419-70). Evidence of matrix interferences is not obvious.

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

HPLC/IC

Method 300_ORGFM_28D - Soluble: The Chloride matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-96513 and analytical batch 880-96520 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.

The associated samples are: S-6 (4') (880-51419-23), S-7 (0-6") (880-51419-24), S-7 (2') (880-51419-26), S-8 (0-6") (880-51419-27), S-8 (2') (880-51419-29), S-9 (0-6") (880-51419-30), S-9 (2') (880-51419-32), S-10 (0-6") (880-51419-33), S-10 (2') (880-51419-35), S-11 (0-6") (880-51419-36), (880-51419-A-23-D MS) and (880-51419-A-23-E MSD).

Method 300_ORGFM_28D - Soluble: The Chloride matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-96516 and analytical batch 880-96541 were outside control limits for one or more analytes. See QC Sample Results for detail. Double spiking of the matrix spike / matrix spike duplicate (MS/MSD) is suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

The associated samples are: S-21 (2') (880-51419-70), (880-51419-A-70-D MS) and (880-51419-A-70-E MSD).

Method 300_ORGFM_28D - Soluble: The Chloride matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-96515 and analytical batch 880-96535 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.

The associated samples are: S-17 (1.5') (880-51419-53), S-13 (0-6") (880-51419-54), S-13 (2') (880-51419-56), S-18 (0-6") (880-51419-57), S-18 (1.5') (880-51419-59), S-19 (0-6") (880-51419-60), S-19 (2') (880-51419-62), S-20 (0-6") (880-51419-63), S-20 (4.1') (880-51419-67), S-21 (0-6") (880-51419-68), (880-51419-A-53-D MS) and (880-51419-A-53-E MSD).

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

Client Sample Results

Client: Crain Environmental
Project/Site: Bagley #4 SWD

Job ID: 880-51419-1
SDG: Lea County NM

Client Sample ID: S-1 (0-6")

Lab Sample ID: 880-51419-1
Matrix: Solid

Date Collected: 11/20/24 09:00
Date Received: 11/22/24 11:58
Sample Depth: 0-6"

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		11/23/24 17:04	11/23/24 21:07	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		11/23/24 17:04	11/23/24 21:07	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		11/23/24 17:04	11/23/24 21:07	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		11/23/24 17:04	11/23/24 21:07	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		11/23/24 17:04	11/23/24 21:07	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg		11/23/24 17:04	11/23/24 21:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*	*11/23/24 17:04*	*11/23/24 21:07*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*11/23/24 17:04*	*11/23/24 21:07*	*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			11/23/24 21:07	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			11/26/24 02:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.4	U	49.7	14.4	mg/Kg		11/22/24 15:56	11/26/24 02:16	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.7	15.0	mg/Kg		11/22/24 15:56	11/26/24 02:16	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.7	15.0	mg/Kg		11/22/24 15:56	11/26/24 02:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*11/22/24 15:56*	*11/26/24 02:16*	*1*
o-Terphenyl	*98*		*70 - 130*	*11/22/24 15:56*	*11/26/24 02:16*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**552**		9.98	0.394	mg/Kg			11/25/24 22:33	1

Client Sample ID: S-1 (4.1')

Lab Sample ID: 880-51419-5
Matrix: Solid

Date Collected: 11/20/24 09:20
Date Received: 11/22/24 11:58
Sample Depth: 4.1'

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		11/25/24 12:14	11/25/24 14:40	1
Toluene	**0.00270**		0.00202	0.00202	mg/Kg		11/25/24 12:14	11/25/24 14:40	1
Ethylbenzene	**0.00630**		0.00202	0.00110	mg/Kg		11/25/24 12:14	11/25/24 14:40	1
m-Xylene & p-Xylene	<0.00231	U	0.00404	0.00231	mg/Kg		11/25/24 12:14	11/25/24 14:40	1
o-Xylene	**0.00161**	**J**	0.00202	0.00160	mg/Kg		11/25/24 12:14	11/25/24 14:40	1
Xylenes, Total	<0.00231	U	0.00404	0.00231	mg/Kg		11/25/24 12:14	11/25/24 14:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*11/25/24 12:14*	*11/25/24 14:40*	*1*

Client Sample Results

Client: Crain Environmental
Project/Site: Bagley #4 SWD

Job ID: 880-51419-1
SDG: Lea County NM

Client Sample ID: S-1 (4.1')

Lab Sample ID: 880-51419-5
Matrix: Solid

Date Collected: 11/20/24 09:20
Date Received: 11/22/24 11:58
Sample Depth: 4.1'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	98		70 - 130	11/25/24 12:14	11/25/24 14:40	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0106**		0.00404	0.00231	mg/Kg			11/25/24 14:40	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			11/26/24 11:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.8	14.5	mg/Kg		11/25/24 08:25	11/26/24 11:42	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.8	15.1	mg/Kg		11/25/24 08:25	11/26/24 11:42	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		11/25/24 08:25	11/26/24 11:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130	11/25/24 08:25	11/26/24 11:42	1
o-Terphenyl	67	S1-	70 - 130	11/25/24 08:25	11/26/24 11:42	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1170**		49.5	1.96	mg/Kg			11/26/24 07:39	5

Client Sample ID: S-2 (0-6")

Lab Sample ID: 880-51419-6
Matrix: Solid

Date Collected: 11/20/24 09:25
Date Received: 11/22/24 11:58
Sample Depth: 0-6"

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		11/23/24 17:04	11/23/24 21:27	1
Toluene	<0.00201	U	0.00201	0.00201	mg/Kg		11/23/24 17:04	11/23/24 21:27	1
Ethylbenzene	<0.00109	U	0.00201	0.00109	mg/Kg		11/23/24 17:04	11/23/24 21:27	1
m-Xylene & p-Xylene	<0.00229	U	0.00402	0.00229	mg/Kg		11/23/24 17:04	11/23/24 21:27	1
o-Xylene	<0.00159	U	0.00201	0.00159	mg/Kg		11/23/24 17:04	11/23/24 21:27	1
Xylenes, Total	<0.00229	U	0.00402	0.00229	mg/Kg		11/23/24 17:04	11/23/24 21:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130	11/23/24 17:04	11/23/24 21:27	1
1,4-Difluorobenzene (Surr)	98		70 - 130	11/23/24 17:04	11/23/24 21:27	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00402	0.00229	mg/Kg			11/23/24 21:27	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			11/26/24 02:32	1

Client Sample Results

Client: Crain Environmental
Project/Site: Bagley #4 SWD

Job ID: 880-51419-1
SDG: Lea County NM

Client Sample ID: S-2 (0-6")

Lab Sample ID: 880-51419-6
Matrix: Solid

Date Collected: 11/20/24 09:25
Date Received: 11/22/24 11:58
Sample Depth: 0-6"

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.8	14.5	mg/Kg		11/22/24 15:56	11/26/24 02:32	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.8	15.1	mg/Kg		11/22/24 15:56	11/26/24 02:32	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		11/22/24 15:56	11/26/24 02:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*11/22/24 15:56*	*11/26/24 02:32*	*1*
o-Terphenyl	*91*		*70 - 130*	*11/22/24 15:56*	*11/26/24 02:32*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**589**		9.92	0.392	mg/Kg			11/25/24 22:57	1

Client Sample ID: S-2 (1.5')

Lab Sample ID: 880-51419-8
Matrix: Solid

Date Collected: 11/20/24 09:35
Date Received: 11/22/24 11:58
Sample Depth: 1.5'

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		11/23/24 17:04	11/23/24 21:48	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		11/23/24 17:04	11/23/24 21:48	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		11/23/24 17:04	11/23/24 21:48	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		11/23/24 17:04	11/23/24 21:48	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		11/23/24 17:04	11/23/24 21:48	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		11/23/24 17:04	11/23/24 21:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*11/23/24 17:04*	*11/23/24 21:48*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*11/23/24 17:04*	*11/23/24 21:48*	*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	0.00400	0.00229	mg/Kg			11/23/24 21:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**57.9**		49.9	15.1	mg/Kg			11/26/24 02:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.9	14.5	mg/Kg		11/22/24 15:56	11/26/24 02:47	1
Diesel Range Organics (Over C10-C28)	**57.9**		49.9	15.1	mg/Kg		11/22/24 15:56	11/26/24 02:47	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		11/22/24 15:56	11/26/24 02:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*11/22/24 15:56*	*11/26/24 02:47*	*1*
o-Terphenyl	*97*		*70 - 130*	*11/22/24 15:56*	*11/26/24 02:47*	*1*

Client Sample Results

Client: Crain Environmental
Project/Site: Bagley #4 SWD

Job ID: 880-51419-1
SDG: Lea County NM

Client Sample ID: S-2 (1.5')

Lab Sample ID: 880-51419-8
Matrix: Solid

Date Collected: 11/20/24 09:35
Date Received: 11/22/24 11:58
Sample Depth: 1.5'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5190**		101	3.99	mg/Kg			11/25/24 23:05	10

Client Sample ID: S-3 (0-6")

Lab Sample ID: 880-51419-9
Matrix: Solid

Date Collected: 11/20/24 09:40
Date Received: 11/22/24 11:58
Sample Depth: 0-6"

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		11/23/24 17:04	11/23/24 22:08	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		11/23/24 17:04	11/23/24 22:08	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		11/23/24 17:04	11/23/24 22:08	1
m-Xylene & p-Xylene	<0.00228	U	0.00398	0.00228	mg/Kg		11/23/24 17:04	11/23/24 22:08	1
o-Xylene	<0.00158	U	0.00199	0.00158	mg/Kg		11/23/24 17:04	11/23/24 22:08	1
Xylenes, Total	<0.00228	U	0.00398	0.00228	mg/Kg		11/23/24 17:04	11/23/24 22:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*126*		*70 - 130*	*11/23/24 17:04*	*11/23/24 22:08*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*11/23/24 17:04*	*11/23/24 22:08*	*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			11/23/24 22:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**18.7**	**J**	50.0	15.1	mg/Kg			11/26/24 03:04	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		11/22/24 15:56	11/26/24 03:04	1
Diesel Range Organics (Over C10-C28)	**18.7**	**J**	50.0	15.1	mg/Kg		11/22/24 15:56	11/26/24 03:04	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		11/22/24 15:56	11/26/24 03:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 130*	*11/22/24 15:56*	*11/26/24 03:04*	*1*
o-Terphenyl	*105*		*70 - 130*	*11/22/24 15:56*	*11/26/24 03:04*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1800**		49.8	1.97	mg/Kg			11/25/24 23:13	5

Client Sample Results

Client: Crain Environmental
Project/Site: Bagley #4 SWD

Job ID: 880-51419-1
SDG: Lea County NM

Client Sample ID: S-3 (2')

Lab Sample ID: 880-51419-11
Matrix: Solid

Date Collected: 11/20/24 09:50
Date Received: 11/22/24 11:58
Sample Depth: 2'

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		11/23/24 17:04	11/23/24 22:28	1
Toluene	<0.00201	U	0.00201	0.00201	mg/Kg		11/23/24 17:04	11/23/24 22:28	1
Ethylbenzene	<0.00110	U	0.00201	0.00110	mg/Kg		11/23/24 17:04	11/23/24 22:28	1
m-Xylene & p-Xylene	<0.00230	U	0.00402	0.00230	mg/Kg		11/23/24 17:04	11/23/24 22:28	1
o-Xylene	<0.00159	U	0.00201	0.00159	mg/Kg		11/23/24 17:04	11/23/24 22:28	1
Xylenes, Total	<0.00230	U	0.00402	0.00230	mg/Kg		11/23/24 17:04	11/23/24 22:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*128*		*70 - 130*	*11/23/24 17:04*	*11/23/24 22:28*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*11/23/24 17:04*	*11/23/24 22:28*	*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			11/23/24 22:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	50.0	15.1	mg/Kg			11/26/24 03:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		11/22/24 15:56	11/26/24 03:19	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		11/22/24 15:56	11/26/24 03:19	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		11/22/24 15:56	11/26/24 03:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*11/22/24 15:56*	*11/26/24 03:19*	*1*
o-Terphenyl	*96*		*70 - 130*	*11/22/24 15:56*	*11/26/24 03:19*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3400**		50.4	1.99	mg/Kg			11/25/24 23:22	5

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

Lab Sample ID: 880-51419-12
Matrix: Solid

Date Collected: 11/20/24 10:10
Date Received: 11/22/24 11:58
Sample Depth: 0-6"

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		11/23/24 17:04	11/23/24 22:49	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		11/23/24 17:04	11/23/24 22:49	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		11/23/24 17:04	11/23/24 22:49	1
m-Xylene & p-Xylene	<0.00229	U	0.00401	0.00229	mg/Kg		11/23/24 17:04	11/23/24 22:49	1
o-Xylene	<0.00159	U	0.00200	0.00159	mg/Kg		11/23/24 17:04	11/23/24 22:49	1
Xylenes, Total	<0.00229	U	0.00401	0.00229	mg/Kg		11/23/24 17:04	11/23/24 22:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*127*		*70 - 130*	*11/23/24 17:04*	*11/23/24 22:49*	*1*

Client Sample Results

Client: Crain Environmental
Project/Site: Bagley #4 SWD

Job ID: 880-51419-1
SDG: Lea County NM

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

Lab Sample ID: 880-51419-12
Matrix: Solid

Date Collected: 11/20/24 10:10
Date Received: 11/22/24 11:58
Sample Depth: 0-6"

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	98		70 - 130	11/23/24 17:04	11/23/24 22:49	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			11/23/24 22:49	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			11/26/24 03:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.8	14.5	mg/Kg		11/22/24 15:56	11/26/24 03:35	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.8	15.1	mg/Kg		11/22/24 15:56	11/26/24 03:35	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		11/22/24 15:56	11/26/24 03:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130	11/22/24 15:56	11/26/24 03:35	1
o-Terphenyl	97		70 - 130	11/22/24 15:56	11/26/24 03:35	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3650**		49.7	1.96	mg/Kg			11/25/24 23:46	5

Client Sample ID: S-4 (1.5')

Lab Sample ID: 880-51419-14
Matrix: Solid

Date Collected: 11/20/24 10:20
Date Received: 11/22/24 11:58
Sample Depth: 1.5'

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		11/23/24 17:04	11/23/24 23:09	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		11/23/24 17:04	11/23/24 23:09	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		11/23/24 17:04	11/23/24 23:09	1
m-Xylene & p-Xylene	<0.00227	U	0.00398	0.00227	mg/Kg		11/23/24 17:04	11/23/24 23:09	1
o-Xylene	<0.00157	U	0.00199	0.00157	mg/Kg		11/23/24 17:04	11/23/24 23:09	1
Xylenes, Total	<0.00227	U	0.00398	0.00227	mg/Kg		11/23/24 17:04	11/23/24 23:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130	11/23/24 17:04	11/23/24 23:09	1
1,4-Difluorobenzene (Surr)	98		70 - 130	11/23/24 17:04	11/23/24 23:09	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			11/23/24 23:09	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			11/26/24 03:51	1

Client Sample Results

Client: Crain Environmental
Project/Site: Bagley #4 SWD

Job ID: 880-51419-1
SDG: Lea County NM

Client Sample ID: S-4 (1.5')

Lab Sample ID: 880-51419-14
Matrix: Solid

Date Collected: 11/20/24 10:20
Date Received: 11/22/24 11:58
Sample Depth: 1.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.9	14.5	mg/Kg		11/22/24 15:56	11/26/24 03:51	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.9	15.1	mg/Kg		11/22/24 15:56	11/26/24 03:51	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		11/22/24 15:56	11/26/24 03:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*11/22/24 15:56*	*11/26/24 03:51*	*1*
o-Terphenyl	*96*		*70 - 130*	*11/22/24 15:56*	*11/26/24 03:51*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3010**		49.6	1.96	mg/Kg			11/25/24 23:54	5

Client Sample ID: S-5 (0-6")

Lab Sample ID: 880-51419-15
Matrix: Solid

Date Collected: 11/20/24 11:05
Date Received: 11/22/24 11:58
Sample Depth: 0-6"

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00138	U	0.00198	0.00138	mg/Kg		11/23/24 17:04	11/23/24 23:30	1
Toluene	<0.00198	U	0.00198	0.00198	mg/Kg		11/23/24 17:04	11/23/24 23:30	1
Ethylbenzene	<0.00108	U	0.00198	0.00108	mg/Kg		11/23/24 17:04	11/23/24 23:30	1
m-Xylene & p-Xylene	<0.00227	U	0.00397	0.00227	mg/Kg		11/23/24 17:04	11/23/24 23:30	1
o-Xylene	<0.00157	U	0.00198	0.00157	mg/Kg		11/23/24 17:04	11/23/24 23:30	1
Xylenes, Total	<0.00227	U	0.00397	0.00227	mg/Kg		11/23/24 17:04	11/23/24 23:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*127*		*70 - 130*	*11/23/24 17:04*	*11/23/24 23:30*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*11/23/24 17:04*	*11/23/24 23:30*	*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	0.00397	0.00227	mg/Kg			11/23/24 23:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**18.3**	**J**	49.9	15.1	mg/Kg			11/26/24 04:06	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		11/22/24 15:56	11/26/24 04:06	1
Diesel Range Organics (Over C10-C28)	**18.3**	**J**	49.9	15.1	mg/Kg		11/22/24 15:56	11/26/24 04:06	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		11/22/24 15:56	11/26/24 04:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*11/22/24 15:56*	*11/26/24 04:06*	*1*
o-Terphenyl	*96*		*70 - 130*	*11/22/24 15:56*	*11/26/24 04:06*	*1*

Client Sample Results

Client: Crain Environmental
Project/Site: Bagley #4 SWD

Job ID: 880-51419-1
SDG: Lea County NM

Client Sample ID: S-5 (0-6")

Lab Sample ID: 880-51419-15
Matrix: Solid

Date Collected: 11/20/24 11:05
Date Received: 11/22/24 11:58
Sample Depth: 0-6"

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6350		101	3.99	mg/Kg			11/26/24 00:02	10

Client Sample ID: S-5 (3')

Lab Sample ID: 880-51419-18
Matrix: Solid

Date Collected: 11/20/24 11:20
Date Received: 11/22/24 11:58
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	0.00199	0.00139	mg/Kg		11/23/24 17:04	11/23/24 23:50	1
Toluene	0.00960		0.00199	0.00199	mg/Kg		11/23/24 17:04	11/23/24 23:50	1
Ethylbenzene	0.0564		0.00199	0.00108	mg/Kg		11/23/24 17:04	11/23/24 23:50	1
m-Xylene & p-Xylene	0.0678		0.00398	0.00228	mg/Kg		11/23/24 17:04	11/23/24 23:50	1
o-Xylene	0.00861		0.00199	0.00158	mg/Kg		11/23/24 17:04	11/23/24 23:50	1
Xylenes, Total	0.0764		0.00398	0.00228	mg/Kg		11/23/24 17:04	11/23/24 23:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*155*	*S1+*	*70 - 130*	*11/23/24 17:04*	*11/23/24 23:50*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*11/23/24 17:04*	*11/23/24 23:50*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.142		0.00398	0.00228	mg/Kg			11/23/24 23:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	890		49.8	15.1	mg/Kg			11/26/24 04:37	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	30.6	J	49.8	14.5	mg/Kg		11/22/24 15:56	11/26/24 04:37	1
Diesel Range Organics (Over C10-C28)	859		49.8	15.1	mg/Kg		11/22/24 15:56	11/26/24 04:37	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		11/22/24 15:56	11/26/24 04:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*109*		*70 - 130*	*11/22/24 15:56*	*11/26/24 04:37*	*1*
o-Terphenyl	*111*		*70 - 130*	*11/22/24 15:56*	*11/26/24 04:37*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2120		49.8	1.97	mg/Kg			11/26/24 00:10	5

Client Sample Results

Client: Crain Environmental
Project/Site: Bagley #4 SWD

Job ID: 880-51419-1
SDG: Lea County NM

Client Sample ID: S-6 (0-6")

Lab Sample ID: 880-51419-19
Matrix: Solid

Date Collected: 11/20/24 11:25
Date Received: 11/22/24 11:58
Sample Depth: 0-6"

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		11/23/24 17:04	11/24/24 00:11	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		11/23/24 17:04	11/24/24 00:11	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		11/23/24 17:04	11/24/24 00:11	1
m-Xylene & p-Xylene	**0.00826**		0.00400	0.00229	mg/Kg		11/23/24 17:04	11/24/24 00:11	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		11/23/24 17:04	11/24/24 00:11	1
Xylenes, Total	**0.00826**		0.00400	0.00229	mg/Kg		11/23/24 17:04	11/24/24 00:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*11/23/24 17:04*	*11/24/24 00:11*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*11/23/24 17:04*	*11/24/24 00:11*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00826**		0.00400	0.00229	mg/Kg			11/24/24 00:11	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	49.8	15.1	mg/Kg			11/26/24 04:53	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		11/22/24 15:56	11/26/24 04:53	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.8	15.1	mg/Kg		11/22/24 15:56	11/26/24 04:53	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		11/22/24 15:56	11/26/24 04:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*11/22/24 15:56*	*11/26/24 04:53*	*1*
o-Terphenyl	*99*		*70 - 130*	*11/22/24 15:56*	*11/26/24 04:53*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1120**		50.4	1.99	mg/Kg			11/26/24 00:19	5

Client Sample ID: S-6 (4')

Lab Sample ID: 880-51419-23
Matrix: Solid

Date Collected: 11/20/24 11:45
Date Received: 11/22/24 11:58
Sample Depth: 4.1'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00140	U	0.00202	0.00140	mg/Kg		11/23/24 17:04	11/24/24 01:34	1
Toluene	<0.00202	U	0.00202	0.00202	mg/Kg		11/23/24 17:04	11/24/24 01:34	1
Ethylbenzene	<0.00110	U	0.00202	0.00110	mg/Kg		11/23/24 17:04	11/24/24 01:34	1
m-Xylene & p-Xylene	<0.00230	U	0.00403	0.00230	mg/Kg		11/23/24 17:04	11/24/24 01:34	1
o-Xylene	<0.00160	U	0.00202	0.00160	mg/Kg		11/23/24 17:04	11/24/24 01:34	1
Xylenes, Total	<0.00230	U	0.00403	0.00230	mg/Kg		11/23/24 17:04	11/24/24 01:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*	*11/23/24 17:04*	*11/24/24 01:34*	*1*

Client Sample Results

Client: Crain Environmental
Project/Site: Bagley #4 SWD

Job ID: 880-51419-1
SDG: Lea County NM

Client Sample ID: S-6 (4')

Lab Sample ID: 880-51419-23
Matrix: Solid

Date Collected: 11/20/24 11:45
Date Received: 11/22/24 11:58
Sample Depth: 4.1'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	97		70 - 130	11/23/24 17:04	11/24/24 01:34	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00230	U	0.00403	0.00230	mg/Kg			11/24/24 01:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	50.0	15.1	mg/Kg			11/26/24 05:09	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		11/22/24 15:56	11/26/24 05:09	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		11/22/24 15:56	11/26/24 05:09	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		11/22/24 15:56	11/26/24 05:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130	11/22/24 15:56	11/26/24 05:09	1
o-Terphenyl	100		70 - 130	11/22/24 15:56	11/26/24 05:09	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2610**	**F1**	49.7	1.96	mg/Kg			11/26/24 00:27	5

Client Sample ID: S-7 (0-6")

Lab Sample ID: 880-51419-24
Matrix: Solid

Date Collected: 11/20/24 11:50
Date Received: 11/22/24 11:58
Sample Depth: 0-6"

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		11/23/24 17:04	11/24/24 01:54	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		11/23/24 17:04	11/24/24 01:54	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		11/23/24 17:04	11/24/24 01:54	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		11/23/24 17:04	11/24/24 01:54	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		11/23/24 17:04	11/24/24 01:54	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg		11/23/24 17:04	11/24/24 01:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130	11/23/24 17:04	11/24/24 01:54	1
1,4-Difluorobenzene (Surr)	98		70 - 130	11/23/24 17:04	11/24/24 01:54	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00399	0.00228	mg/Kg			11/24/24 01:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	49.7	15.0	mg/Kg			11/26/24 05:24	1

Client Sample Results

Client: Crain Environmental
Project/Site: Bagley #4 SWD

Job ID: 880-51419-1
SDG: Lea County NM

Client Sample ID: S-7 (0-6")

Lab Sample ID: 880-51419-24
Matrix: Solid

Date Collected: 11/20/24 11:50
Date Received: 11/22/24 11:58
Sample Depth: 0-6"

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.4	U	49.7	14.4	mg/Kg		11/22/24 15:56	11/26/24 05:24	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.7	15.0	mg/Kg		11/22/24 15:56	11/26/24 05:24	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.7	15.0	mg/Kg		11/22/24 15:56	11/26/24 05:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*116*		*70 - 130*	*11/22/24 15:56*	*11/26/24 05:24*	*1*
o-Terphenyl	*108*		*70 - 130*	*11/22/24 15:56*	*11/26/24 05:24*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**181**		9.94	0.393	mg/Kg			11/26/24 00:51	1

Client Sample ID: S-7 (2')

Lab Sample ID: 880-51419-26
Matrix: Solid

Date Collected: 11/20/24 12:00
Date Received: 11/22/24 11:58
Sample Depth: 2'

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		11/23/24 17:04	11/24/24 02:15	1
Toluene	<0.00201	U	0.00201	0.00201	mg/Kg		11/23/24 17:04	11/24/24 02:15	1
Ethylbenzene	<0.00109	U	0.00201	0.00109	mg/Kg		11/23/24 17:04	11/24/24 02:15	1
m-Xylene & p-Xylene	<0.00229	U	0.00402	0.00229	mg/Kg		11/23/24 17:04	11/24/24 02:15	1
o-Xylene	<0.00159	U	0.00201	0.00159	mg/Kg		11/23/24 17:04	11/24/24 02:15	1
Xylenes, Total	<0.00229	U	0.00402	0.00229	mg/Kg		11/23/24 17:04	11/24/24 02:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*	*11/23/24 17:04*	*11/24/24 02:15*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*11/23/24 17:04*	*11/24/24 02:15*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00402	0.00229	mg/Kg			11/24/24 02:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	49.8	15.1	mg/Kg			11/26/24 05:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.8	14.5	mg/Kg		11/22/24 15:56	11/26/24 05:40	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.8	15.1	mg/Kg		11/22/24 15:56	11/26/24 05:40	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		11/22/24 15:56	11/26/24 05:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*113*		*70 - 130*	*11/22/24 15:56*	*11/26/24 05:40*	*1*
o-Terphenyl	*104*		*70 - 130*	*11/22/24 15:56*	*11/26/24 05:40*	*1*

Client Sample Results

Client: Crain Environmental
Project/Site: Bagley #4 SWD

Job ID: 880-51419-1
SDG: Lea County NM

Client Sample ID: S-7 (2')

Lab Sample ID: 880-51419-26
Matrix: Solid

Date Collected: 11/20/24 12:00
Date Received: 11/22/24 11:58
Sample Depth: 2'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1330		9.90	0.391	mg/Kg			11/26/24 00:59	1

Client Sample ID: S-8 (0-6")

Lab Sample ID: 880-51419-27
Matrix: Solid

Date Collected: 11/20/24 12:05
Date Received: 11/22/24 11:58
Sample Depth: 0-6"

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00140	U	0.00202	0.00140	mg/Kg		11/23/24 17:04	11/24/24 02:35	1
Toluene	<0.00202	U	0.00202	0.00202	mg/Kg		11/23/24 17:04	11/24/24 02:35	1
Ethylbenzene	<0.00110	U	0.00202	0.00110	mg/Kg		11/23/24 17:04	11/24/24 02:35	1
m-Xylene & p-Xylene	<0.00230	U	0.00403	0.00230	mg/Kg		11/23/24 17:04	11/24/24 02:35	1
o-Xylene	<0.00160	U	0.00202	0.00160	mg/Kg		11/23/24 17:04	11/24/24 02:35	1
Xylenes, Total	<0.00230	U	0.00403	0.00230	mg/Kg		11/23/24 17:04	11/24/24 02:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*	*11/23/24 17:04*	*11/24/24 02:35*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*11/23/24 17:04*	*11/24/24 02:35*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00230	U	0.00403	0.00230	mg/Kg			11/24/24 02:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	49.9	15.1	mg/Kg			11/26/24 05:56	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		11/22/24 15:56	11/26/24 05:56	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.9	15.1	mg/Kg		11/22/24 15:56	11/26/24 05:56	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		11/22/24 15:56	11/26/24 05:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*108*		*70 - 130*	*11/22/24 15:56*	*11/26/24 05:56*	*1*
o-Terphenyl	*100*		*70 - 130*	*11/22/24 15:56*	*11/26/24 05:56*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2900		49.8	1.97	mg/Kg			11/26/24 01:24	5

Client Sample Results

Client: Crain Environmental
Project/Site: Bagley #4 SWD

Job ID: 880-51419-1
SDG: Lea County NM

Client Sample ID: S-8 (2')

Lab Sample ID: 880-51419-29
Matrix: Solid

Date Collected: 11/20/24 12:15
Date Received: 11/22/24 11:58
Sample Depth: 2'

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		11/23/24 17:04	11/24/24 02:56	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		11/23/24 17:04	11/24/24 02:56	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		11/23/24 17:04	11/24/24 02:56	1
m-Xylene & p-Xylene	<0.00227	U	0.00398	0.00227	mg/Kg		11/23/24 17:04	11/24/24 02:56	1
o-Xylene	<0.00157	U	0.00199	0.00157	mg/Kg		11/23/24 17:04	11/24/24 02:56	1
Xylenes, Total	<0.00227	U	0.00398	0.00227	mg/Kg		11/23/24 17:04	11/24/24 02:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*	*11/23/24 17:04*	*11/24/24 02:56*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*11/23/24 17:04*	*11/24/24 02:56*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00227	U	0.00398	0.00227	mg/Kg			11/24/24 02:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	50.0	15.1	mg/Kg			11/26/24 06:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		11/22/24 15:56	11/26/24 06:12	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		11/22/24 15:56	11/26/24 06:12	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		11/22/24 15:56	11/26/24 06:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*11/22/24 15:56*	*11/26/24 06:12*	*1*
o-Terphenyl	*99*		*70 - 130*	*11/22/24 15:56*	*11/26/24 06:12*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1890**		50.2	1.98	mg/Kg			11/26/24 01:32	5

Client Sample ID: S-9 (0-6")

Lab Sample ID: 880-51419-30
Matrix: Solid

Date Collected: 11/20/24 12:20
Date Received: 11/22/24 11:58
Sample Depth: 0-6"

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00138	U	0.00198	0.00138	mg/Kg		11/23/24 17:04	11/24/24 03:16	1
Toluene	<0.00198	U	0.00198	0.00198	mg/Kg		11/23/24 17:04	11/24/24 03:16	1
Ethylbenzene	<0.00108	U	0.00198	0.00108	mg/Kg		11/23/24 17:04	11/24/24 03:16	1
m-Xylene & p-Xylene	<0.00227	U	0.00397	0.00227	mg/Kg		11/23/24 17:04	11/24/24 03:16	1
o-Xylene	<0.00157	U	0.00198	0.00157	mg/Kg		11/23/24 17:04	11/24/24 03:16	1
Xylenes, Total	<0.00227	U	0.00397	0.00227	mg/Kg		11/23/24 17:04	11/24/24 03:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*126*		*70 - 130*	*11/23/24 17:04*	*11/24/24 03:16*	*1*

Client Sample Results

Client: Crain Environmental
Project/Site: Bagley #4 SWD

Job ID: 880-51419-1
SDG: Lea County NM

Client Sample ID: S-9 (0-6")

Lab Sample ID: 880-51419-30
Matrix: Solid

Date Collected: 11/20/24 12:20
Date Received: 11/22/24 11:58
Sample Depth: 0-6"

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	97		70 - 130	11/23/24 17:04	11/24/24 03:16	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00227	U	0.00397	0.00227	mg/Kg			11/24/24 03:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	49.9	15.1	mg/Kg			11/26/24 06:27	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		11/22/24 15:56	11/26/24 06:27	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.9	15.1	mg/Kg		11/22/24 15:56	11/26/24 06:27	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		11/22/24 15:56	11/26/24 06:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130	11/22/24 15:56	11/26/24 06:27	1
o-Terphenyl	93		70 - 130	11/22/24 15:56	11/26/24 06:27	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**14400**		200	7.92	mg/Kg			11/26/24 01:40	20

Client Sample ID: S-9 (2')

Lab Sample ID: 880-51419-32
Matrix: Solid

Date Collected: 11/20/24 12:30
Date Received: 11/22/24 11:58
Sample Depth: 2'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00140	U	0.00202	0.00140	mg/Kg		11/23/24 17:04	11/24/24 03:37	1
Toluene	<0.00202	U	0.00202	0.00202	mg/Kg		11/23/24 17:04	11/24/24 03:37	1
Ethylbenzene	<0.00110	U	0.00202	0.00110	mg/Kg		11/23/24 17:04	11/24/24 03:37	1
m-Xylene & p-Xylene	<0.00230	U	0.00403	0.00230	mg/Kg		11/23/24 17:04	11/24/24 03:37	1
o-Xylene	<0.00160	U	0.00202	0.00160	mg/Kg		11/23/24 17:04	11/24/24 03:37	1
Xylenes, Total	<0.00230	U	0.00403	0.00230	mg/Kg		11/23/24 17:04	11/24/24 03:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130	11/23/24 17:04	11/24/24 03:37	1
1,4-Difluorobenzene (Surr)	97		70 - 130	11/23/24 17:04	11/24/24 03:37	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	0.00403	0.00230	mg/Kg			11/24/24 03:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	49.8	15.1	mg/Kg			11/26/24 06:43	1

Client Sample Results

Client: Crain Environmental
Project/Site: Bagley #4 SWD

Job ID: 880-51419-1
SDG: Lea County NM

Client Sample ID: S-9 (2')

Lab Sample ID: 880-51419-32
Matrix: Solid

Date Collected: 11/20/24 12:30
Date Received: 11/22/24 11:58
Sample Depth: 2'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.8	14.5	mg/Kg		11/22/24 15:56	11/26/24 06:43	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.8	15.1	mg/Kg		11/22/24 15:56	11/26/24 06:43	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		11/22/24 15:56	11/26/24 06:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*11/22/24 15:56*	*11/26/24 06:43*	*1*
o-Terphenyl	*97*		*70 - 130*	*11/22/24 15:56*	*11/26/24 06:43*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6470**		99.6	3.93	mg/Kg			11/26/24 01:48	10

Client Sample ID: S-10 (0-6")

Lab Sample ID: 880-51419-33
Matrix: Solid

Date Collected: 11/20/24 12:35
Date Received: 11/22/24 11:58
Sample Depth: 0-6"

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		11/23/24 17:04	11/24/24 03:57	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		11/23/24 17:04	11/24/24 03:57	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		11/23/24 17:04	11/24/24 03:57	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		11/23/24 17:04	11/24/24 03:57	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		11/23/24 17:04	11/24/24 03:57	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg		11/23/24 17:04	11/24/24 03:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*	*11/23/24 17:04*	*11/24/24 03:57*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*11/23/24 17:04*	*11/24/24 03:57*	*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			11/24/24 03:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	50.0	15.1	mg/Kg			11/26/24 06:59	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		11/22/24 15:56	11/26/24 06:59	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		11/22/24 15:56	11/26/24 06:59	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		11/22/24 15:56	11/26/24 06:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*112*		*70 - 130*	*11/22/24 15:56*	*11/26/24 06:59*	*1*
o-Terphenyl	*99*		*70 - 130*	*11/22/24 15:56*	*11/26/24 06:59*	*1*

Client Sample Results

Client: Crain Environmental
Project/Site: Bagley #4 SWD

Job ID: 880-51419-1
SDG: Lea County NM

Client Sample ID: S-10 (0-6")

Lab Sample ID: 880-51419-33
Matrix: Solid

Date Collected: 11/20/24 12:35
Date Received: 11/22/24 11:58
Sample Depth: 0-6"

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1820		49.6	1.96	mg/Kg			11/26/24 01:56	5

Client Sample ID: S-10 (2')

Lab Sample ID: 880-51419-35
Matrix: Solid

Date Collected: 11/20/24 12:45
Date Received: 11/22/24 11:58
Sample Depth: 2'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00138	U	0.00198	0.00138	mg/Kg		11/23/24 17:04	11/24/24 04:18	1
Toluene	<0.00198	U	0.00198	0.00198	mg/Kg		11/23/24 17:04	11/24/24 04:18	1
Ethylbenzene	<0.00108	U	0.00198	0.00108	mg/Kg		11/23/24 17:04	11/24/24 04:18	1
m-Xylene & p-Xylene	<0.00226	U	0.00396	0.00226	mg/Kg		11/23/24 17:04	11/24/24 04:18	1
o-Xylene	<0.00157	U	0.00198	0.00157	mg/Kg		11/23/24 17:04	11/24/24 04:18	1
Xylenes, Total	<0.00226	U	0.00396	0.00226	mg/Kg		11/23/24 17:04	11/24/24 04:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*	*11/23/24 17:04*	*11/24/24 04:18*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*11/23/24 17:04*	*11/24/24 04:18*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00226	U	0.00396	0.00226	mg/Kg			11/24/24 04:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	50.0	15.1	mg/Kg			11/26/24 10:54	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	50.0	14.5	mg/Kg		11/22/24 15:59	11/26/24 10:54	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		11/22/24 15:59	11/26/24 10:54	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		11/22/24 15:59	11/26/24 10:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*111*		*70 - 130*	*11/22/24 15:59*	*11/26/24 10:54*	*1*
o-Terphenyl	*99*		*70 - 130*	*11/22/24 15:59*	*11/26/24 10:54*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	825		10.0	0.397	mg/Kg			11/26/24 02:04	1

Client Sample Results

Client: Crain Environmental
Project/Site: Bagley #4 SWD

Job ID: 880-51419-1
SDG: Lea County NM

Client Sample ID: S-11 (0-6")

Lab Sample ID: 880-51419-36
Matrix: Solid

Date Collected: 11/20/24 12:50
Date Received: 11/22/24 11:58
Sample Depth: 0-6"

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00140	U	0.00202	0.00140	mg/Kg		11/23/24 17:04	11/24/24 04:38	1
Toluene	<0.00202	U	0.00202	0.00202	mg/Kg		11/23/24 17:04	11/24/24 04:38	1
Ethylbenzene	<0.00110	U	0.00202	0.00110	mg/Kg		11/23/24 17:04	11/24/24 04:38	1
m-Xylene & p-Xylene	<0.00230	U	0.00403	0.00230	mg/Kg		11/23/24 17:04	11/24/24 04:38	1
o-Xylene	<0.00160	U	0.00202	0.00160	mg/Kg		11/23/24 17:04	11/24/24 04:38	1
Xylenes, Total	<0.00230	U	0.00403	0.00230	mg/Kg		11/23/24 17:04	11/24/24 04:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*126*		*70 - 130*	*11/23/24 17:04*	*11/24/24 04:38*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*11/23/24 17:04*	*11/24/24 04:38*	*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	0.00403	0.00230	mg/Kg			11/24/24 04:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	49.6	15.0	mg/Kg			11/26/24 11:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.4	U	49.6	14.4	mg/Kg		11/22/24 15:59	11/26/24 11:42	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.6	15.0	mg/Kg		11/22/24 15:59	11/26/24 11:42	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.6	15.0	mg/Kg		11/22/24 15:59	11/26/24 11:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*111*		*70 - 130*	*11/22/24 15:59*	*11/26/24 11:42*	*1*
o-Terphenyl	*102*		*70 - 130*	*11/22/24 15:59*	*11/26/24 11:42*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2970**		49.8	1.97	mg/Kg			11/26/24 02:12	5

Client Sample ID: S-11 (2')

Lab Sample ID: 880-51419-38
Matrix: Solid

Date Collected: 11/20/24 13:00
Date Received: 11/22/24 11:58
Sample Depth: 2'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00138	U	0.00198	0.00138	mg/Kg		11/23/24 17:07	11/24/24 07:26	1
Toluene	<0.00198	U	0.00198	0.00198	mg/Kg		11/23/24 17:07	11/24/24 07:26	1
Ethylbenzene	<0.00108	U	0.00198	0.00108	mg/Kg		11/23/24 17:07	11/24/24 07:26	1
m-Xylene & p-Xylene	<0.00227	U	0.00397	0.00227	mg/Kg		11/23/24 17:07	11/24/24 07:26	1
o-Xylene	<0.00157	U	0.00198	0.00157	mg/Kg		11/23/24 17:07	11/24/24 07:26	1
Xylenes, Total	<0.00227	U	0.00397	0.00227	mg/Kg		11/23/24 17:07	11/24/24 07:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*11/23/24 17:07*	*11/24/24 07:26*	*1*

Client Sample Results

Client: Crain Environmental
Project/Site: Bagley #4 SWD

Job ID: 880-51419-1
SDG: Lea County NM

Client Sample ID: S-11 (2')

Lab Sample ID: 880-51419-38
Matrix: Solid

Date Collected: 11/20/24 13:00
Date Received: 11/22/24 11:58
Sample Depth: 2'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	108		70 - 130	11/23/24 17:07	11/24/24 07:26	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	0.00397	0.00227	mg/Kg			11/24/24 07:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	49.8	15.1	mg/Kg			11/26/24 11:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.8	14.5	mg/Kg		11/22/24 15:59	11/26/24 11:58	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.8	15.1	mg/Kg		11/22/24 15:59	11/26/24 11:58	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		11/22/24 15:59	11/26/24 11:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130	11/22/24 15:59	11/26/24 11:58	1
o-Terphenyl	94		70 - 130	11/22/24 15:59	11/26/24 11:58	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**764**		50.4	1.99	mg/Kg			11/25/24 22:17	5

Client Sample ID: S-12 (0-6")

Lab Sample ID: 880-51419-39
Matrix: Solid

Date Collected: 11/20/24 13:05
Date Received: 11/22/24 11:58
Sample Depth: 0-6"

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		11/23/24 17:07	11/24/24 07:47	1
Toluene	<0.00201	U	0.00201	0.00201	mg/Kg		11/23/24 17:07	11/24/24 07:47	1
Ethylbenzene	<0.00109	U	0.00201	0.00109	mg/Kg		11/23/24 17:07	11/24/24 07:47	1
m-Xylene & p-Xylene	<0.00229	U	0.00402	0.00229	mg/Kg		11/23/24 17:07	11/24/24 07:47	1
o-Xylene	<0.00159	U	0.00201	0.00159	mg/Kg		11/23/24 17:07	11/24/24 07:47	1
Xylenes, Total	<0.00229	U	0.00402	0.00229	mg/Kg		11/23/24 17:07	11/24/24 07:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	11/23/24 17:07	11/24/24 07:47	1
1,4-Difluorobenzene (Surr)	105		70 - 130	11/23/24 17:07	11/24/24 07:47	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00402	0.00229	mg/Kg			11/24/24 07:47	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			11/26/24 12:14	1

Client Sample Results

Client: Crain Environmental
Project/Site: Bagley #4 SWD

Job ID: 880-51419-1
SDG: Lea County NM

Client Sample ID: S-12 (0-6")

Lab Sample ID: 880-51419-39
Matrix: Solid

Date Collected: 11/20/24 13:05
Date Received: 11/22/24 11:58
Sample Depth: 0-6"

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.4	U	49.7	14.4	mg/Kg		11/22/24 15:59	11/26/24 12:14	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.7	15.0	mg/Kg		11/22/24 15:59	11/26/24 12:14	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.7	15.0	mg/Kg		11/22/24 15:59	11/26/24 12:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*11/22/24 15:59*	*11/26/24 12:14*	*1*
o-Terphenyl	*96*		*70 - 130*	*11/22/24 15:59*	*11/26/24 12:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1520**		50.5	1.99	mg/Kg			11/25/24 22:37	5

Client Sample ID: S-12 (2')

Lab Sample ID: 880-51419-41
Matrix: Solid

Date Collected: 11/20/24 13:15
Date Received: 11/22/24 11:58
Sample Depth: 2'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00140	U	0.00202	0.00140	mg/Kg		11/23/24 17:07	11/24/24 08:07	1
Toluene	<0.00202	U	0.00202	0.00202	mg/Kg		11/23/24 17:07	11/24/24 08:07	1
Ethylbenzene	<0.00110	U	0.00202	0.00110	mg/Kg		11/23/24 17:07	11/24/24 08:07	1
m-Xylene & p-Xylene	<0.00230	U	0.00403	0.00230	mg/Kg		11/23/24 17:07	11/24/24 08:07	1
o-Xylene	<0.00160	U	0.00202	0.00160	mg/Kg		11/23/24 17:07	11/24/24 08:07	1
Xylenes, Total	<0.00230	U	0.00403	0.00230	mg/Kg		11/23/24 17:07	11/24/24 08:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*11/23/24 17:07*	*11/24/24 08:07*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*11/23/24 17:07*	*11/24/24 08:07*	*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	0.00403	0.00230	mg/Kg			11/24/24 08:07	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			11/26/24 12:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.4	U	49.7	14.4	mg/Kg		11/22/24 15:59	11/26/24 12:30	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.7	15.0	mg/Kg		11/22/24 15:59	11/26/24 12:30	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.7	15.0	mg/Kg		11/22/24 15:59	11/26/24 12:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*11/22/24 15:59*	*11/26/24 12:30*	*1*
o-Terphenyl	*92*		*70 - 130*	*11/22/24 15:59*	*11/26/24 12:30*	*1*

Client Sample Results

Client: Crain Environmental
Project/Site: Bagley #4 SWD

Job ID: 880-51419-1
SDG: Lea County NM

Client Sample ID: S-12 (2')

Lab Sample ID: 880-51419-41
Matrix: Solid

Date Collected: 11/20/24 13:15
Date Received: 11/22/24 11:58
Sample Depth: 2'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	838		49.8	1.97	mg/Kg			11/25/24 22:44	5

Client Sample ID: S-14 (0-6")

Lab Sample ID: 880-51419-42
Matrix: Solid

Date Collected: 11/20/24 13:20
Date Received: 11/22/24 11:58
Sample Depth: 0-6"

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		11/23/24 17:07	11/24/24 08:28	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		11/23/24 17:07	11/24/24 08:28	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		11/23/24 17:07	11/24/24 08:28	1
m-Xylene & p-Xylene	<0.00227	U	0.00398	0.00227	mg/Kg		11/23/24 17:07	11/24/24 08:28	1
o-Xylene	<0.00157	U	0.00199	0.00157	mg/Kg		11/23/24 17:07	11/24/24 08:28	1
Xylenes, Total	<0.00227	U	0.00398	0.00227	mg/Kg		11/23/24 17:07	11/24/24 08:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*11/23/24 17:07*	*11/24/24 08:28*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*11/23/24 17:07*	*11/24/24 08:28*	*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			11/24/24 08:28	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			11/26/24 12:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.9	14.5	mg/Kg		11/22/24 15:59	11/26/24 12:46	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.9	15.1	mg/Kg		11/22/24 15:59	11/26/24 12:46	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		11/22/24 15:59	11/26/24 12:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 130*	*11/22/24 15:59*	*11/26/24 12:46*	*1*
o-Terphenyl	*98*		*70 - 130*	*11/22/24 15:59*	*11/26/24 12:46*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	888		9.92	0.392	mg/Kg			11/25/24 22:50	1

Client Sample Results

Client: Crain Environmental
Project/Site: Bagley #4 SWD

Job ID: 880-51419-1
SDG: Lea County NM

Client Sample ID: S-14 (1.5')

Lab Sample ID: 880-51419-44
Matrix: Solid

Date Collected: 11/20/24 13:30
Date Received: 11/22/24 11:58
Sample Depth: 1.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00138	U	0.00198	0.00138	mg/Kg		11/23/24 17:07	11/24/24 08:48	1
Toluene	<0.00198	U	0.00198	0.00198	mg/Kg		11/23/24 17:07	11/24/24 08:48	1
Ethylbenzene	<0.00108	U	0.00198	0.00108	mg/Kg		11/23/24 17:07	11/24/24 08:48	1
m-Xylene & p-Xylene	<0.00226	U	0.00396	0.00226	mg/Kg		11/23/24 17:07	11/24/24 08:48	1
o-Xylene	<0.00157	U	0.00198	0.00157	mg/Kg		11/23/24 17:07	11/24/24 08:48	1
Xylenes, Total	<0.00226	U	0.00396	0.00226	mg/Kg		11/23/24 17:07	11/24/24 08:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*11/23/24 17:07*	*11/24/24 08:48*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*11/23/24 17:07*	*11/24/24 08:48*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00226	U	0.00396	0.00226	mg/Kg			11/24/24 08:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**62.8**		50.0	15.1	mg/Kg			11/26/24 17:27	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		11/22/24 15:59	11/26/24 17:27	1
Diesel Range Organics (Over C10-C28)	**62.8**		50.0	15.1	mg/Kg		11/22/24 15:59	11/26/24 17:27	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		11/22/24 15:59	11/26/24 17:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*11/22/24 15:59*	*11/26/24 17:27*	*1*
o-Terphenyl	*95*		*70 - 130*	*11/22/24 15:59*	*11/26/24 17:27*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**506**		9.90	0.391	mg/Kg			11/25/24 22:57	1

Client Sample ID: S-15 (0-6")

Lab Sample ID: 880-51419-45
Matrix: Solid

Date Collected: 11/20/24 13:35
Date Received: 11/22/24 11:58
Sample Depth: 0-6"

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		11/23/24 17:07	11/24/24 09:09	1
Toluene	<0.00201	U	0.00201	0.00201	mg/Kg		11/23/24 17:07	11/24/24 09:09	1
Ethylbenzene	<0.00110	U	0.00201	0.00110	mg/Kg		11/23/24 17:07	11/24/24 09:09	1
m-Xylene & p-Xylene	<0.00230	U	0.00402	0.00230	mg/Kg		11/23/24 17:07	11/24/24 09:09	1
o-Xylene	<0.00159	U	0.00201	0.00159	mg/Kg		11/23/24 17:07	11/24/24 09:09	1
Xylenes, Total	<0.00230	U	0.00402	0.00230	mg/Kg		11/23/24 17:07	11/24/24 09:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*11/23/24 17:07*	*11/24/24 09:09*	*1*

Client Sample Results

Client: Crain Environmental
Project/Site: Bagley #4 SWD

Job ID: 880-51419-1
SDG: Lea County NM

Client Sample ID: S-15 (0-6")

Lab Sample ID: 880-51419-45
Matrix: Solid

Date Collected: 11/20/24 13:35
Date Received: 11/22/24 11:58
Sample Depth: 0-6"

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	107		70 - 130	11/23/24 17:07	11/24/24 09:09	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			11/24/24 09:09	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			11/26/24 17:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.9	14.5	mg/Kg		11/22/24 15:59	11/26/24 17:43	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.9	15.1	mg/Kg		11/22/24 15:59	11/26/24 17:43	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		11/22/24 15:59	11/26/24 17:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130	11/22/24 15:59	11/26/24 17:43	1
o-Terphenyl	99		70 - 130	11/22/24 15:59	11/26/24 17:43	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4040**		100	3.95	mg/Kg			11/25/24 23:17	10

Client Sample ID: S-15 (2')

Lab Sample ID: 880-51419-47
Matrix: Solid

Date Collected: 11/20/24 13:45
Date Received: 11/22/24 11:58
Sample Depth: 2'

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		11/23/24 17:07	11/24/24 09:29	1
Toluene	<0.00201	U	0.00201	0.00201	mg/Kg		11/23/24 17:07	11/24/24 09:29	1
Ethylbenzene	<0.00109	U	0.00201	0.00109	mg/Kg		11/23/24 17:07	11/24/24 09:29	1
m-Xylene & p-Xylene	<0.00229	U	0.00402	0.00229	mg/Kg		11/23/24 17:07	11/24/24 09:29	1
o-Xylene	<0.00159	U	0.00201	0.00159	mg/Kg		11/23/24 17:07	11/24/24 09:29	1
Xylenes, Total	<0.00229	U	0.00402	0.00229	mg/Kg		11/23/24 17:07	11/24/24 09:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	11/23/24 17:07	11/24/24 09:29	1
1,4-Difluorobenzene (Surr)	108		70 - 130	11/23/24 17:07	11/24/24 09:29	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00402	0.00229	mg/Kg			11/24/24 09:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	50.0	15.1	mg/Kg			11/26/24 17:59	1

Client Sample Results

Client: Crain Environmental
Project/Site: Bagley #4 SWD

Job ID: 880-51419-1
SDG: Lea County NM

Client Sample ID: S-15 (2')

Lab Sample ID: 880-51419-47
Matrix: Solid

Date Collected: 11/20/24 13:45
Date Received: 11/22/24 11:58
Sample Depth: 2'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		11/22/24 15:59	11/26/24 17:59	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		11/22/24 15:59	11/26/24 17:59	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		11/22/24 15:59	11/26/24 17:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*109*		*70 - 130*	*11/22/24 15:59*	*11/26/24 17:59*	*1*
o-Terphenyl	*100*		*70 - 130*	*11/22/24 15:59*	*11/26/24 17:59*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2370**		50.4	1.99	mg/Kg			11/25/24 23:24	5

Client Sample ID: S-16 (0-6")

Lab Sample ID: 880-51419-48
Matrix: Solid

Date Collected: 11/20/24 13:50
Date Received: 11/22/24 11:58
Sample Depth: 0-6"

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		11/23/24 17:07	11/24/24 09:50	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		11/23/24 17:07	11/24/24 09:50	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		11/23/24 17:07	11/24/24 09:50	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		11/23/24 17:07	11/24/24 09:50	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		11/23/24 17:07	11/24/24 09:50	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg		11/23/24 17:07	11/24/24 09:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*11/23/24 17:07*	*11/24/24 09:50*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*11/23/24 17:07*	*11/24/24 09:50*	*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			11/24/24 09:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	49.8	15.1	mg/Kg			11/26/24 18:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.8	14.5	mg/Kg		11/22/24 15:59	11/26/24 18:14	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.8	15.1	mg/Kg		11/22/24 15:59	11/26/24 18:14	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		11/22/24 15:59	11/26/24 18:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*11/22/24 15:59*	*11/26/24 18:14*	*1*
o-Terphenyl	*98*		*70 - 130*	*11/22/24 15:59*	*11/26/24 18:14*	*1*

Client Sample Results

Client: Crain Environmental
Project/Site: Bagley #4 SWD

Job ID: 880-51419-1
SDG: Lea County NM

Client Sample ID: S-16 (0-6")

Lab Sample ID: 880-51419-48
Matrix: Solid

Date Collected: 11/20/24 13:50
Date Received: 11/22/24 11:58
Sample Depth: 0-6"

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1980		49.7	1.96	mg/Kg			11/25/24 23:30	5

Client Sample ID: S-16 (1.5')

Lab Sample ID: 880-51419-50
Matrix: Solid

Date Collected: 11/20/24 14:00
Date Received: 11/22/24 11:58
Sample Depth: 1.5'

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		11/23/24 17:07	11/24/24 10:10	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		11/23/24 17:07	11/24/24 10:10	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		11/23/24 17:07	11/24/24 10:10	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		11/23/24 17:07	11/24/24 10:10	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		11/23/24 17:07	11/24/24 10:10	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		11/23/24 17:07	11/24/24 10:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*11/23/24 17:07*	*11/24/24 10:10*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*11/23/24 17:07*	*11/24/24 10:10*	*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	0.00400	0.00229	mg/Kg			11/24/24 10:10	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	50.0	15.1	mg/Kg			11/26/24 18:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		11/22/24 15:59	11/26/24 18:46	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		11/22/24 15:59	11/26/24 18:46	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		11/22/24 15:59	11/26/24 18:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*11/22/24 15:59*	*11/26/24 18:46*	*1*
o-Terphenyl	*95*		*70 - 130*	*11/22/24 15:59*	*11/26/24 18:46*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1880		49.6	1.96	mg/Kg			11/25/24 23:37	5

Client Sample Results

Client: Crain Environmental
Project/Site: Bagley #4 SWD

Job ID: 880-51419-1
SDG: Lea County NM

Client Sample ID: S-17 (0-6")

Lab Sample ID: 880-51419-51
Matrix: Solid

Date Collected: 11/20/24 14:05
Date Received: 11/22/24 11:58
Sample Depth: 0-6"

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		11/23/24 17:07	11/24/24 10:31	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		11/23/24 17:07	11/24/24 10:31	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		11/23/24 17:07	11/24/24 10:31	1
m-Xylene & p-Xylene	<0.00228	U	0.00398	0.00228	mg/Kg		11/23/24 17:07	11/24/24 10:31	1
o-Xylene	<0.00158	U	0.00199	0.00158	mg/Kg		11/23/24 17:07	11/24/24 10:31	1
Xylenes, Total	<0.00228	U	0.00398	0.00228	mg/Kg		11/23/24 17:07	11/24/24 10:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*11/23/24 17:07*	*11/24/24 10:31*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*11/23/24 17:07*	*11/24/24 10:31*	*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			11/24/24 10:31	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			11/26/24 19:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.9	14.5	mg/Kg		11/22/24 15:59	11/26/24 19:03	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.9	15.1	mg/Kg		11/22/24 15:59	11/26/24 19:03	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		11/22/24 15:59	11/26/24 19:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*108*		*70 - 130*	*11/22/24 15:59*	*11/26/24 19:03*	*1*
o-Terphenyl	*98*		*70 - 130*	*11/22/24 15:59*	*11/26/24 19:03*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**210**		9.90	0.391	mg/Kg			11/25/24 23:44	1

Client Sample ID: S-17 (1.5')

Lab Sample ID: 880-51419-53
Matrix: Solid

Date Collected: 11/20/24 14:15
Date Received: 11/22/24 11:58
Sample Depth: 1.5'

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		11/23/24 17:07	11/24/24 12:05	1
Toluene	<0.00201	U	0.00201	0.00201	mg/Kg		11/23/24 17:07	11/24/24 12:05	1
Ethylbenzene	<0.00109	U	0.00201	0.00109	mg/Kg		11/23/24 17:07	11/24/24 12:05	1
m-Xylene & p-Xylene	<0.00229	U	0.00402	0.00229	mg/Kg		11/23/24 17:07	11/24/24 12:05	1
o-Xylene	<0.00159	U	0.00201	0.00159	mg/Kg		11/23/24 17:07	11/24/24 12:05	1
Xylenes, Total	<0.00229	U	0.00402	0.00229	mg/Kg		11/23/24 17:07	11/24/24 12:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*11/23/24 17:07*	*11/24/24 12:05*	*1*

Client Sample Results

Client: Crain Environmental
Project/Site: Bagley #4 SWD

Job ID: 880-51419-1
SDG: Lea County NM

Client Sample ID: S-17 (1.5')

Lab Sample ID: 880-51419-53
Matrix: Solid

Date Collected: 11/20/24 14:15
Date Received: 11/22/24 11:58
Sample Depth: 1.5'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	108		70 - 130	11/23/24 17:07	11/24/24 12:05	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00402	0.00229	mg/Kg			11/24/24 12:05	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			11/26/24 19:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.8	14.5	mg/Kg		11/22/24 15:59	11/26/24 19:18	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.8	15.1	mg/Kg		11/22/24 15:59	11/26/24 19:18	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		11/22/24 15:59	11/26/24 19:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130	11/22/24 15:59	11/26/24 19:18	1
o-Terphenyl	98		70 - 130	11/22/24 15:59	11/26/24 19:18	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2420**	**F1**	50.0	1.98	mg/Kg			11/25/24 23:50	5

Client Sample ID: S-13 (0-6")

Lab Sample ID: 880-51419-54
Matrix: Solid

Date Collected: 11/20/24 14:35
Date Received: 11/22/24 11:58
Sample Depth: 0-6"

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		11/23/24 17:07	11/24/24 12:26	1
Toluene	<0.00202	U	0.00202	0.00202	mg/Kg		11/23/24 17:07	11/24/24 12:26	1
Ethylbenzene	<0.00110	U	0.00202	0.00110	mg/Kg		11/23/24 17:07	11/24/24 12:26	1
m-Xylene & p-Xylene	<0.00231	U	0.00404	0.00231	mg/Kg		11/23/24 17:07	11/24/24 12:26	1
o-Xylene	<0.00160	U	0.00202	0.00160	mg/Kg		11/23/24 17:07	11/24/24 12:26	1
Xylenes, Total	<0.00231	U	0.00404	0.00231	mg/Kg		11/23/24 17:07	11/24/24 12:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	11/23/24 17:07	11/24/24 12:26	1
1,4-Difluorobenzene (Surr)	107		70 - 130	11/23/24 17:07	11/24/24 12:26	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			11/24/24 12:26	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			11/26/24 19:34	1

Client Sample Results

Client: Crain Environmental
Project/Site: Bagley #4 SWD

Job ID: 880-51419-1
SDG: Lea County NM

Client Sample ID: S-13 (0-6")

Lab Sample ID: 880-51419-54
Matrix: Solid

Date Collected: 11/20/24 14:35
Date Received: 11/22/24 11:58
Sample Depth: 0-6"

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.4	U	49.7	14.4	mg/Kg		11/22/24 15:59	11/26/24 19:34	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.7	15.0	mg/Kg		11/22/24 15:59	11/26/24 19:34	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.7	15.0	mg/Kg		11/22/24 15:59	11/26/24 19:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*11/22/24 15:59*	*11/26/24 19:34*	*1*
o-Terphenyl	*94*		*70 - 130*	*11/22/24 15:59*	*11/26/24 19:34*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**262**		9.92	0.392	mg/Kg			11/26/24 00:10	1

Client Sample ID: S-13 (2')

Lab Sample ID: 880-51419-56
Matrix: Solid

Date Collected: 11/20/24 14:45
Date Received: 11/22/24 11:58
Sample Depth: 2'

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		11/23/24 17:07	11/24/24 12:46	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		11/23/24 17:07	11/24/24 12:46	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		11/23/24 17:07	11/24/24 12:46	1
m-Xylene & p-Xylene	<0.00227	U	0.00398	0.00227	mg/Kg		11/23/24 17:07	11/24/24 12:46	1
o-Xylene	<0.00157	U	0.00199	0.00157	mg/Kg		11/23/24 17:07	11/24/24 12:46	1
Xylenes, Total	<0.00227	U	0.00398	0.00227	mg/Kg		11/23/24 17:07	11/24/24 12:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*11/23/24 17:07*	*11/24/24 12:46*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*11/23/24 17:07*	*11/24/24 12:46*	*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			11/24/24 12:46	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	49.8	15.1	mg/Kg			11/26/24 19:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.8	14.5	mg/Kg		11/22/24 15:59	11/26/24 19:49	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.8	15.1	mg/Kg		11/22/24 15:59	11/26/24 19:49	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		11/22/24 15:59	11/26/24 19:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*11/22/24 15:59*	*11/26/24 19:49*	*1*
o-Terphenyl	*97*		*70 - 130*	*11/22/24 15:59*	*11/26/24 19:49*	*1*

Client Sample Results

Client: Crain Environmental
Project/Site: Bagley #4 SWD

Job ID: 880-51419-1
SDG: Lea County NM

Client Sample ID: S-13 (2')

Lab Sample ID: 880-51419-56
Matrix: Solid

Date Collected: 11/20/24 14:45
Date Received: 11/22/24 11:58
Sample Depth: 2'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1260		50.4	1.99	mg/Kg			11/26/24 00:17	5

Client Sample ID: S-18 (0-6")

Lab Sample ID: 880-51419-57
Matrix: Solid

Date Collected: 11/20/24 14:50
Date Received: 11/22/24 11:58
Sample Depth: 0-6"

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		11/23/24 17:07	11/24/24 13:07	1
Toluene	<0.00202	U	0.00202	0.00202	mg/Kg		11/23/24 17:07	11/24/24 13:07	1
Ethylbenzene	<0.00110	U	0.00202	0.00110	mg/Kg		11/23/24 17:07	11/24/24 13:07	1
m-Xylene & p-Xylene	<0.00231	U	0.00404	0.00231	mg/Kg		11/23/24 17:07	11/24/24 13:07	1
o-Xylene	<0.00160	U	0.00202	0.00160	mg/Kg		11/23/24 17:07	11/24/24 13:07	1
Xylenes, Total	<0.00231	U	0.00404	0.00231	mg/Kg		11/23/24 17:07	11/24/24 13:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*11/23/24 17:07*	*11/24/24 13:07*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*11/23/24 17:07*	*11/24/24 13:07*	*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			11/24/24 13:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	50.0	15.1	mg/Kg			11/26/24 20:06	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		11/22/24 15:59	11/26/24 20:06	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		11/22/24 15:59	11/26/24 20:06	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		11/22/24 15:59	11/26/24 20:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*111*		*70 - 130*	*11/22/24 15:59*	*11/26/24 20:06*	*1*
o-Terphenyl	*101*		*70 - 130*	*11/22/24 15:59*	*11/26/24 20:06*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	145		9.90	0.391	mg/Kg			11/26/24 00:37	1

Client Sample Results

Client: Crain Environmental
Project/Site: Bagley #4 SWD

Job ID: 880-51419-1
SDG: Lea County NM

Client Sample ID: S-18 (1.5')

Lab Sample ID: 880-51419-59
Matrix: Solid

Date Collected: 11/20/24 15:00
Date Received: 11/22/24 11:58
Sample Depth: 1.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00140	U	0.00202	0.00140	mg/Kg		11/23/24 17:07	11/24/24 13:27	1
Toluene	<0.00202	U	0.00202	0.00202	mg/Kg		11/23/24 17:07	11/24/24 13:27	1
Ethylbenzene	<0.00110	U	0.00202	0.00110	mg/Kg		11/23/24 17:07	11/24/24 13:27	1
m-Xylene & p-Xylene	<0.00230	U	0.00403	0.00230	mg/Kg		11/23/24 17:07	11/24/24 13:27	1
o-Xylene	<0.00160	U	0.00202	0.00160	mg/Kg		11/23/24 17:07	11/24/24 13:27	1
Xylenes, Total	<0.00230	U	0.00403	0.00230	mg/Kg		11/23/24 17:07	11/24/24 13:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*11/23/24 17:07*	*11/24/24 13:27*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*11/23/24 17:07*	*11/24/24 13:27*	*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	0.00403	0.00230	mg/Kg			11/24/24 13:27	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			11/26/24 20:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.9	14.5	mg/Kg		11/22/24 15:59	11/26/24 20:21	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.9	15.1	mg/Kg		11/22/24 15:59	11/26/24 20:21	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		11/22/24 15:59	11/26/24 20:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*111*		*70 - 130*	*11/22/24 15:59*	*11/26/24 20:21*	*1*
o-Terphenyl	*101*		*70 - 130*	*11/22/24 15:59*	*11/26/24 20:21*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1500**		49.6	1.96	mg/Kg			11/26/24 00:44	5

Client Sample ID: S-19 (0-6")

Lab Sample ID: 880-51419-60
Matrix: Solid

Date Collected: 11/20/24 15:05
Date Received: 11/22/24 11:58
Sample Depth: 0-6"

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		11/23/24 17:07	11/24/24 13:48	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		11/23/24 17:07	11/24/24 13:48	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		11/23/24 17:07	11/24/24 13:48	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		11/23/24 17:07	11/24/24 13:48	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		11/23/24 17:07	11/24/24 13:48	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg		11/23/24 17:07	11/24/24 13:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*11/23/24 17:07*	*11/24/24 13:48*	*1*

Client Sample Results

Client: Crain Environmental
Project/Site: Bagley #4 SWD

Job ID: 880-51419-1
SDG: Lea County NM

Client Sample ID: S-19 (0-6")

Lab Sample ID: 880-51419-60
Matrix: Solid

Date Collected: 11/20/24 15:05
Date Received: 11/22/24 11:58
Sample Depth: 0-6"

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	107		70 - 130	11/23/24 17:07	11/24/24 13:48	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			11/24/24 13:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**26.8**	**J**	49.9	15.1	mg/Kg			11/26/24 20:37	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		11/22/24 15:59	11/26/24 20:37	1
Diesel Range Organics (Over C10-C28)	**26.8**	**J**	49.9	15.1	mg/Kg		11/22/24 15:59	11/26/24 20:37	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		11/22/24 15:59	11/26/24 20:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130	11/22/24 15:59	11/26/24 20:37	1
o-Terphenyl	96		70 - 130	11/22/24 15:59	11/26/24 20:37	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**874**		50.4	1.99	mg/Kg			11/26/24 00:50	5

Client Sample ID: S-19 (2')

Lab Sample ID: 880-51419-62
Matrix: Solid

Date Collected: 11/20/24 15:15
Date Received: 11/22/24 11:58
Sample Depth: 2'

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		11/23/24 17:07	11/24/24 14:08	1
Toluene	<0.00202	U	0.00202	0.00202	mg/Kg		11/23/24 17:07	11/24/24 14:08	1
Ethylbenzene	<0.00110	U	0.00202	0.00110	mg/Kg		11/23/24 17:07	11/24/24 14:08	1
m-Xylene & p-Xylene	<0.00231	U	0.00404	0.00231	mg/Kg		11/23/24 17:07	11/24/24 14:08	1
o-Xylene	<0.00160	U	0.00202	0.00160	mg/Kg		11/23/24 17:07	11/24/24 14:08	1
Xylenes, Total	<0.00231	U	0.00404	0.00231	mg/Kg		11/23/24 17:07	11/24/24 14:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	11/23/24 17:07	11/24/24 14:08	1
1,4-Difluorobenzene (Surr)	109		70 - 130	11/23/24 17:07	11/24/24 14:08	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			11/24/24 14:08	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			11/26/24 20:52	1

Client Sample Results

Client: Crain Environmental
Project/Site: Bagley #4 SWD

Job ID: 880-51419-1
SDG: Lea County NM

Client Sample ID: S-19 (2')

Lab Sample ID: 880-51419-62
Matrix: Solid

Date Collected: 11/20/24 15:15
Date Received: 11/22/24 11:58
Sample Depth: 2'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.8	14.5	mg/Kg		11/22/24 15:59	11/26/24 20:52	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.8	15.1	mg/Kg		11/22/24 15:59	11/26/24 20:52	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		11/22/24 15:59	11/26/24 20:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*11/22/24 15:59*	*11/26/24 20:52*	*1*
o-Terphenyl	*94*		*70 - 130*	*11/22/24 15:59*	*11/26/24 20:52*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**574**		49.5	1.96	mg/Kg			11/26/24 00:57	5

Client Sample ID: S-20 (0-6")

Lab Sample ID: 880-51419-63
Matrix: Solid

Date Collected: 11/20/24 15:20
Date Received: 11/22/24 11:58
Sample Depth: 0-6"

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00138	U	0.00198	0.00138	mg/Kg		11/23/24 17:07	11/24/24 14:29	1
Toluene	<0.00198	U	0.00198	0.00198	mg/Kg		11/23/24 17:07	11/24/24 14:29	1
Ethylbenzene	<0.00108	U	0.00198	0.00108	mg/Kg		11/23/24 17:07	11/24/24 14:29	1
m-Xylene & p-Xylene	<0.00227	U	0.00397	0.00227	mg/Kg		11/23/24 17:07	11/24/24 14:29	1
o-Xylene	<0.00157	U	0.00198	0.00157	mg/Kg		11/23/24 17:07	11/24/24 14:29	1
Xylenes, Total	<0.00227	U	0.00397	0.00227	mg/Kg		11/23/24 17:07	11/24/24 14:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*11/23/24 17:07*	*11/24/24 14:29*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*11/23/24 17:07*	*11/24/24 14:29*	*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	0.00397	0.00227	mg/Kg			11/24/24 14:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**109**		50.0	15.1	mg/Kg			11/26/24 21:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		11/22/24 15:59	11/26/24 21:08	1
Diesel Range Organics (Over C10-C28)	**109**		50.0	15.1	mg/Kg		11/22/24 15:59	11/26/24 21:08	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		11/22/24 15:59	11/26/24 21:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 130*	*11/22/24 15:59*	*11/26/24 21:08*	*1*
o-Terphenyl	*99*		*70 - 130*	*11/22/24 15:59*	*11/26/24 21:08*	*1*

Client Sample Results

Client: Crain Environmental
Project/Site: Bagley #4 SWD

Job ID: 880-51419-1
SDG: Lea County NM

Client Sample ID: S-20 (0-6")

Lab Sample ID: 880-51419-63
Matrix: Solid

Date Collected: 11/20/24 15:20
Date Received: 11/22/24 11:58
Sample Depth: 0-6"

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1500		49.5	1.96	mg/Kg			11/26/24 01:04	5

Client Sample ID: S-20 (4.1')

Lab Sample ID: 880-51419-67
Matrix: Solid

Date Collected: 11/20/24 15:40
Date Received: 11/22/24 11:58
Sample Depth: 4.1'

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		11/23/24 17:07	11/24/24 14:49	1
Toluene	<0.00201	U	0.00201	0.00201	mg/Kg		11/23/24 17:07	11/24/24 14:49	1
Ethylbenzene	<0.00109	U	0.00201	0.00109	mg/Kg		11/23/24 17:07	11/24/24 14:49	1
m-Xylene & p-Xylene	<0.00229	U	0.00402	0.00229	mg/Kg		11/23/24 17:07	11/24/24 14:49	1
o-Xylene	<0.00159	U	0.00201	0.00159	mg/Kg		11/23/24 17:07	11/24/24 14:49	1
Xylenes, Total	<0.00229	U	0.00402	0.00229	mg/Kg		11/23/24 17:07	11/24/24 14:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*11/23/24 17:07*	*11/24/24 14:49*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*11/23/24 17:07*	*11/24/24 14:49*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00402	0.00229	mg/Kg			11/24/24 14:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	50.0	15.1	mg/Kg			11/25/24 13:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		11/22/24 16:33	11/25/24 13:49	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		11/22/24 16:33	11/25/24 13:49	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		11/22/24 16:33	11/25/24 13:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*81*		*70 - 130*	*11/22/24 16:33*	*11/25/24 13:49*	*1*
o-Terphenyl	*85*		*70 - 130*	*11/22/24 16:33*	*11/25/24 13:49*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	408		10.0	0.396	mg/Kg			11/26/24 01:10	1

Client Sample Results

Client: Crain Environmental
Project/Site: Bagley #4 SWD

Job ID: 880-51419-1
SDG: Lea County NM

Client Sample ID: S-21 (0-6")

Lab Sample ID: 880-51419-68
Matrix: Solid

Date Collected: 11/20/24 15:50
Date Received: 11/22/24 11:58
Sample Depth: 0-6"

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		11/23/24 17:07	11/24/24 15:10	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		11/23/24 17:07	11/24/24 15:10	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		11/23/24 17:07	11/24/24 15:10	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		11/23/24 17:07	11/24/24 15:10	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		11/23/24 17:07	11/24/24 15:10	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg		11/23/24 17:07	11/24/24 15:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*11/23/24 17:07*	*11/24/24 15:10*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*11/23/24 17:07*	*11/24/24 15:10*	*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			11/24/24 15:10	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	49.9	15.1	mg/Kg			11/25/24 17:06	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		11/22/24 16:33	11/25/24 17:06	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.9	15.1	mg/Kg		11/22/24 16:33	11/25/24 17:06	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		11/22/24 16:33	11/25/24 17:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*11/22/24 16:33*	*11/25/24 17:06*	*1*
o-Terphenyl	*95*		*70 - 130*	*11/22/24 16:33*	*11/25/24 17:06*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**726**		9.90	0.391	mg/Kg			11/26/24 01:17	1

Client Sample ID: S-21 (2')

Lab Sample ID: 880-51419-70
Matrix: Solid

Date Collected: 11/20/24 16:00
Date Received: 11/22/24 11:58
Sample Depth: 2'

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		11/22/24 16:19	11/24/24 14:36	1
Toluene	**0.00438**		0.00200	0.00200	mg/Kg		11/22/24 16:19	11/24/24 14:36	1
Ethylbenzene	**0.0209**		0.00200	0.00109	mg/Kg		11/22/24 16:19	11/24/24 14:36	1
m-Xylene & p-Xylene	**0.00799**		0.00399	0.00228	mg/Kg		11/22/24 16:19	11/24/24 14:36	1
o-Xylene	**0.0735**		0.00200	0.00158	mg/Kg		11/22/24 16:19	11/24/24 14:36	1
Xylenes, Total	**0.0815**		0.00399	0.00228	mg/Kg		11/22/24 16:19	11/24/24 14:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*27*	*S1-*	*70 - 130*	*11/22/24 16:19*	*11/24/24 14:36*	*1*

Client Sample Results

Client: Crain Environmental
Project/Site: Bagley #4 SWD

Job ID: 880-51419-1
SDG: Lea County NM

Client Sample ID: S-21 (2')

Date Collected: 11/20/24 16:00
Date Received: 11/22/24 11:58
Sample Depth: 2'

Lab Sample ID: 880-51419-70

Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*120*		*70 - 130*	*11/22/24 16:19*	*11/24/24 14:36*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.107**		0.00399	0.00228	mg/Kg			11/24/24 14:36	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			11/26/24 11:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.9	14.5	mg/Kg		11/25/24 08:25	11/26/24 11:58	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.9	15.1	mg/Kg		11/25/24 08:25	11/26/24 11:58	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		11/25/24 08:25	11/26/24 11:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*86*		*70 - 130*	*11/25/24 08:25*	*11/26/24 11:58*	*1*
o-Terphenyl	*67*	*S1-*	*70 - 130*	*11/25/24 08:25*	*11/26/24 11:58*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**175**	**F1**	10.1	0.397	mg/Kg			11/26/24 03:18	1

Surrogate Summary

Client: Crain Environmental
Project/Site: Bagley #4 SWD

Job ID: 880-51419-1
SDG: Lea County 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)								
880-51418-A-41-E MS	Matrix Spike	144 S1+	91								
880-51418-A-41-F MSD	Matrix Spike Duplicate	84	99								
880-51419-1	S-1 (0-6")	125	97								
880-51419-1 MS	S-1 (0-6")	103	96								
880-51419-1 MSD	S-1 (0-6")	108	100								
880-51419-5	S-1 (4.1')	93	98								
880-51419-6	S-2 (0-6")	130	98								
880-51419-8	S-2 (1.5')	118	95								
880-51419-9	S-3 (0-6")	126	97								
880-51419-11	S-3 (2')	128	97								
880-51419-12	S-4 (0-6")	127	98								
880-51419-14	S-4 (1.5')	124	98								
880-51419-15	S-5 (0-6")	127	97								
880-51419-18	S-5 (3')	155 S1+	103								
880-51419-19	S-6 (0-6")	119	90								
880-51419-23	S-6 (4')	121	97								
880-51419-24	S-7 (0-6")	127	98								
880-51419-26	S-7 (2')	125	97								
880-51419-27	S-8 (0-6")	124	98								
880-51419-29	S-8 (2')	124	98								
880-51419-30	S-9 (0-6")	126	97								
880-51419-32	S-9 (2')	129	97								
880-51419-33	S-10 (0-6")	121	97								
880-51419-35	S-10 (2')	124	97								
880-51419-36	S-11 (0-6")	126	95								
880-51419-38	S-11 (2')	114	108								
880-51419-38 MS	S-11 (2')	104	103								
880-51419-38 MSD	S-11 (2')	111	105								
880-51419-39	S-12 (0-6")	109	105								
880-51419-41	S-12 (2')	115	107								
880-51419-42	S-14 (0-6")	110	109								
880-51419-44	S-14 (1.5')	110	108								
880-51419-45	S-15 (0-6")	113	107								
880-51419-47	S-15 (2')	111	108								
880-51419-48	S-16 (0-6")	114	108								
880-51419-50	S-16 (1.5')	112	108								
880-51419-51	S-17 (0-6")	109	107								
880-51419-53	S-17 (1.5')	110	108								
880-51419-54	S-13 (0-6")	111	107								
880-51419-56	S-13 (2')	112	107								
880-51419-57	S-18 (0-6")	108	107								
880-51419-59	S-18 (1.5')	109	105								
880-51419-60	S-19 (0-6")	110	107								
880-51419-62	S-19 (2')	111	109								
880-51419-63	S-20 (0-6")	106	106								
880-51419-67	S-20 (4.1')	110	107								
880-51419-68	S-21 (0-6")	111	108								
880-51419-70	S-21 (2')	27 S1-	120								
880-51482-A-2-A MS	Matrix Spike	101	101								

Surrogate Summary

Client: Crain Environmental
Job ID: 880-51419-1
Project/Site: Bagley #4 SWD
SDG: Lea County NM

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

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

Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-51482-A-2-B MSD	Matrix Spike Duplicate	105	100
LCS 880-96418/1-A	Lab Control Sample	126	95
LCS 880-96445/1-A	Lab Control Sample	116	99
LCS 880-96446/1-A	Lab Control Sample	108	103
LCS 880-96521/1-A	Lab Control Sample	104	101
LCSD 880-96418/2-A	Lab Control Sample Dup	125	94
LCSD 880-96445/2-A	Lab Control Sample Dup	107	98
LCSD 880-96446/2-A	Lab Control Sample Dup	108	102
LCSD 880-96521/2-A	Lab Control Sample Dup	110	102
MB 880-96416/5-A	Method Blank	107	102
MB 880-96418/5-A	Method Blank	132 S1+	92
MB 880-96443/25-A	Method Blank	128	92
MB 880-96445/5-A	Method Blank	117	89
MB 880-96446/5-A	Method Blank	106	103
MB 880-96521/5-A	Method Blank	96	93

Percent Surrogate Recovery (Acceptance Limits)

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**

Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-51418-A-57-C MS	Matrix Spike	95	92
880-51418-A-57-D MSD	Matrix Spike Duplicate	95	92
880-51419-1	S-1 (0-6")	105	98
880-51419-5	S-1 (4.1')	86	67 S1-
880-51419-6	S-2 (0-6")	97	91
880-51419-8	S-2 (1.5')	105	97
880-51419-9	S-3 (0-6")	110	105
880-51419-11	S-3 (2')	105	96
880-51419-12	S-4 (0-6")	106	97
880-51419-14	S-4 (1.5')	104	96
880-51419-15	S-5 (0-6")	104	96
880-51419-18	S-5 (3')	109	111
880-51419-19	S-6 (0-6")	107	99
880-51419-23	S-6 (4')	107	100
880-51419-24	S-7 (0-6")	116	108
880-51419-26	S-7 (2')	113	104
880-51419-27	S-8 (0-6")	108	100
880-51419-29	S-8 (2')	107	99
880-51419-30	S-9 (0-6")	102	93
880-51419-32	S-9 (2')	105	97
880-51419-33	S-10 (0-6")	112	99
880-51419-35	S-10 (2')	111	99
880-51419-35 MS	S-10 (2')	99	94
880-51419-35 MSD	S-10 (2')	99	95
880-51419-36	S-11 (0-6")	111	102

Percent Surrogate Recovery (Acceptance Limits)

Surrogate Summary

Client: Crain Environmental
Job ID: 880-51419-1
Project/Site: Bagley #4 SWD
SDG: Lea County NM

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

Matrix: Solid
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)								
880-51419-38	S-11 (2')	104	94								
880-51419-39	S-12 (0-6")	105	96								
880-51419-41	S-12 (2')	101	92								
880-51419-42	S-14 (0-6")	110	98								
880-51419-44	S-14 (1.5')	104	95								
880-51419-45	S-15 (0-6")	107	99								
880-51419-47	S-15 (2')	109	100								
880-51419-48	S-16 (0-6")	107	98								
880-51419-50	S-16 (1.5')	103	95								
880-51419-51	S-17 (0-6")	108	98								
880-51419-53	S-17 (1.5')	108	98								
880-51419-54	S-13 (0-6")	101	94								
880-51419-56	S-13 (2')	106	97								
880-51419-57	S-18 (0-6")	111	101								
880-51419-59	S-18 (1.5')	111	101								
880-51419-60	S-19 (0-6")	106	96								
880-51419-62	S-19 (2')	104	94								
880-51419-63	S-20 (0-6")	110	99								
880-51419-67	S-20 (4.1')	81	85								
880-51419-67 MS	S-20 (4.1')	94	87								
880-51419-67 MSD	S-20 (4.1')	97	88								
880-51419-68	S-21 (0-6")	88	95								
880-51419-70	S-21 (2')	86	67 S1-								
880-51433-A-4-D MS	Matrix Spike	102	84								
880-51433-A-4-E MSD	Matrix Spike Duplicate	84	71								
LCS 880-96410/2-A	Lab Control Sample	124	120								
LCS 880-96411/2-A	Lab Control Sample	104	104								
LCS 880-96419/2-A	Lab Control Sample	136 S1+	131 S1+								
LCS 880-96467/2-A	Lab Control Sample	90	82								
LCSD 880-96410/3-A	Lab Control Sample Dup	114	113								
LCSD 880-96411/3-A	Lab Control Sample Dup	105	103								
LCSD 880-96419/3-A	Lab Control Sample Dup	143 S1+	134 S1+								
LCSD 880-96467/3-A	Lab Control Sample Dup	92	82								
MB 880-96410/1-A	Method Blank	118	109								
MB 880-96411/1-A	Method Blank	128	117								
MB 880-96419/1-A	Method Blank	76	82								
MB 880-96467/1-A	Method Blank	113	91								

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Crain Environmental
Project/Site: Bagley #4 SWD

Job ID: 880-51419-1
SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-96416/5-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 96441 — **Prep Batch: 96416**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		11/22/24 16:09	11/23/24 20:05	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		11/22/24 16:09	11/23/24 20:05	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		11/22/24 16:09	11/23/24 20:05	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		11/22/24 16:09	11/23/24 20:05	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		11/22/24 16:09	11/23/24 20:05	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		11/22/24 16:09	11/23/24 20:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*11/22/24 16:09*	*11/23/24 20:05*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*11/22/24 16:09*	*11/23/24 20:05*	*1*

Lab Sample ID: MB 880-96418/5-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 96439 — **Prep Batch: 96418**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		11/22/24 16:19	11/24/24 06:53	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		11/22/24 16:19	11/24/24 06:53	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		11/22/24 16:19	11/24/24 06:53	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		11/22/24 16:19	11/24/24 06:53	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		11/22/24 16:19	11/24/24 06:53	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		11/22/24 16:19	11/24/24 06:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*132*	*S1+*	*70 - 130*	*11/22/24 16:19*	*11/24/24 06:53*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*11/22/24 16:19*	*11/24/24 06:53*	*1*

Lab Sample ID: LCS 880-96418/1-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 96439 — **Prep Batch: 96418**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1211		mg/Kg		121	70 - 130
Toluene	0.100	0.1118		mg/Kg		112	70 - 130
Ethylbenzene	0.100	0.1121		mg/Kg		112	70 - 130
m-Xylene & p-Xylene	0.200	0.2307		mg/Kg		115	70 - 130
o-Xylene	0.100	0.1153		mg/Kg		115	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*126*		*70 - 130*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*

Lab Sample ID: LCSD 880-96418/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 96439 — **Prep Batch: 96418**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1207		mg/Kg		121	70 - 130	0	35

QC Sample Results

Client: Crain Environmental
Project/Site: Bagley #4 SWD

Job ID: 880-51419-1
SDG: Lea County NM

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

Lab Sample ID: LCSD 880-96418/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 96439 — **Prep Batch: 96418**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.1114		mg/Kg		111	70 - 130	0	35
Ethylbenzene			0.100	0.1116		mg/Kg		112	70 - 130	0	35
m-Xylene & p-Xylene			0.200	0.2295		mg/Kg		115	70 - 130	1	35
o-Xylene			0.100	0.1146		mg/Kg		115	70 - 130	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*

Lab Sample ID: 880-51418-A-41-E MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 96439 — **Prep Batch: 96418**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00139	U F2 F1	0.0996	0.08104		mg/Kg		81	70 - 130		
Toluene	<0.00199	U F2 F1	0.0996	0.08140		mg/Kg		82	70 - 130		
Ethylbenzene	<0.00108	U F2 F1	0.0996	0.08578		mg/Kg		86	70 - 130		
m-Xylene & p-Xylene	<0.00228	U F2 F1	0.199	0.1840		mg/Kg		92	70 - 130		
o-Xylene	<0.00158	U F2 F1	0.0996	0.09331		mg/Kg		94	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*144*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*

Lab Sample ID: 880-51418-A-41-F MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 96439 — **Prep Batch: 96418**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00139	U F2 F1	0.101	0.03618	F2 F1	mg/Kg		36	70 - 130	77	35
Toluene	<0.00199	U F2 F1	0.101	0.04235	F2 F1	mg/Kg		42	70 - 130	63	35
Ethylbenzene	<0.00108	U F2 F1	0.101	0.03680	F2 F1	mg/Kg		37	70 - 130	80	35
m-Xylene & p-Xylene	<0.00228	U F2 F1	0.201	0.08125	F2 F1	mg/Kg		40	70 - 130	77	35
o-Xylene	<0.00158	U F2 F1	0.101	0.04105	F2 F1	mg/Kg		41	70 - 130	78	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: MB 880-96443/25-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 96439 — **Prep Batch: 96443**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		11/23/24 16:48	11/23/24 19:56	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		11/23/24 16:48	11/23/24 19:56	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		11/23/24 16:48	11/23/24 19:56	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		11/23/24 16:48	11/23/24 19:56	1

QC Sample Results

Client: Crain Environmental
Project/Site: Bagley #4 SWD

Job ID: 880-51419-1
SDG: Lea County NM

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

Lab Sample ID: MB 880-96443/25-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 96439 — **Prep Batch: 96443**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		11/23/24 16:48	11/23/24 19:56	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		11/23/24 16:48	11/23/24 19:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*128*		*70 - 130*	*11/23/24 16:48*	*11/23/24 19:56*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*11/23/24 16:48*	*11/23/24 19:56*	*1*

Lab Sample ID: MB 880-96445/5-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 96438 — **Prep Batch: 96445**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		11/23/24 17:04	11/23/24 20:45	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		11/23/24 17:04	11/23/24 20:45	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		11/23/24 17:04	11/23/24 20:45	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		11/23/24 17:04	11/23/24 20:45	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		11/23/24 17:04	11/23/24 20:45	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		11/23/24 17:04	11/23/24 20:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*11/23/24 17:04*	*11/23/24 20:45*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*11/23/24 17:04*	*11/23/24 20:45*	*1*

Lab Sample ID: LCS 880-96445/1-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 96438 — **Prep Batch: 96445**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1171		mg/Kg		117	70 - 130
Toluene	0.100	0.1136		mg/Kg		114	70 - 130
Ethylbenzene	0.100	0.1164		mg/Kg		116	70 - 130
m-Xylene & p-Xylene	0.200	0.2392		mg/Kg		120	70 - 130
o-Xylene	0.100	0.1273		mg/Kg		127	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: LCSD 880-96445/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 96438 — **Prep Batch: 96445**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1183		mg/Kg		118	70 - 130	1	35
Toluene	0.100	0.1153		mg/Kg		115	70 - 130	1	35
Ethylbenzene	0.100	0.1208		mg/Kg		121	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.2433		mg/Kg		122	70 - 130	2	35
o-Xylene	0.100	0.1269		mg/Kg		127	70 - 130	0	35

QC Sample Results

Client: Crain Environmental
Project/Site: Bagley #4 SWD

Job ID: 880-51419-1
SDG: Lea County NM

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

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 880-51419-1 MS — **Client Sample ID: S-1 (0-6")**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 96438 — **Prep Batch: 96445**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00139	U	0.0996	0.1087		mg/Kg		109	70 - 130
Toluene	<0.00200	U	0.0996	0.1037		mg/Kg		104	70 - 130
Ethylbenzene	<0.00109	U	0.0996	0.1029		mg/Kg		103	70 - 130
m-Xylene & p-Xylene	<0.00228	U	0.199	0.2041		mg/Kg		102	70 - 130
o-Xylene	<0.00158	U	0.0996	0.1056		mg/Kg		106	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: 880-51419-1 MSD — **Client Sample ID: S-1 (0-6")**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 96438 — **Prep Batch: 96445**

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	0.1186		mg/Kg		118	70 - 130	9	35
Toluene	<0.00200	U	0.100	0.1128		mg/Kg		113	70 - 130	8	35
Ethylbenzene	<0.00109	U	0.100	0.1127		mg/Kg		113	70 - 130	9	35
m-Xylene & p-Xylene	<0.00228	U	0.200	0.2256		mg/Kg		113	70 - 130	10	35
o-Xylene	<0.00158	U	0.100	0.1160		mg/Kg		116	70 - 130	9	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: MB 880-96446/5-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 96441 — **Prep Batch: 96446**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		11/23/24 17:07	11/24/24 07:05	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		11/23/24 17:07	11/24/24 07:05	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		11/23/24 17:07	11/24/24 07:05	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		11/23/24 17:07	11/24/24 07:05	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		11/23/24 17:07	11/24/24 07:05	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		11/23/24 17:07	11/24/24 07:05	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	11/23/24 17:07	11/24/24 07:05	1
1,4-Difluorobenzene (Surr)	103		70 - 130	11/23/24 17:07	11/24/24 07:05	1

QC Sample Results

Client: Crain Environmental
Project/Site: Bagley #4 SWD

Job ID: 880-51419-1
SDG: Lea County NM

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

Lab Sample ID: LCS 880-96446/1-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 96441 — **Prep Batch: 96446**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1088		mg/Kg		109	70 - 130		
Toluene			0.100	0.1064		mg/Kg		106	70 - 130		
Ethylbenzene			0.100	0.1037		mg/Kg		104	70 - 130		
m-Xylene & p-Xylene			0.200	0.2090		mg/Kg		105	70 - 130		
o-Xylene			0.100	0.1092		mg/Kg		109	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: LCSD 880-96446/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 96441 — **Prep Batch: 96446**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1090		mg/Kg		109	70 - 130	0	35
Toluene			0.100	0.1072		mg/Kg		107	70 - 130	1	35
Ethylbenzene			0.100	0.1051		mg/Kg		105	70 - 130	1	35
m-Xylene & p-Xylene			0.200	0.2127		mg/Kg		106	70 - 130	2	35
o-Xylene			0.100	0.1108		mg/Kg		111	70 - 130	1	35

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

Lab Sample ID: 880-51419-38 MS — **Client Sample ID: S-11 (2')**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 96441 — **Prep Batch: 96446**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00138	U	0.0996	0.09905		mg/Kg		99	70 - 130		
Toluene	<0.00198	U	0.0996	0.09241		mg/Kg		93	70 - 130		
Ethylbenzene	<0.00108	U	0.0996	0.08538		mg/Kg		86	70 - 130		
m-Xylene & p-Xylene	<0.00227	U	0.199	0.1708		mg/Kg		86	70 - 130		
o-Xylene	<0.00157	U	0.0996	0.08919		mg/Kg		90	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: 880-51419-38 MSD — **Client Sample ID: S-11 (2')**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 96441 — **Prep Batch: 96446**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00138	U	0.100	0.08867		mg/Kg		88	70 - 130	11	35
Toluene	<0.00198	U	0.100	0.08234		mg/Kg		82	70 - 130	12	35
Ethylbenzene	<0.00108	U	0.100	0.07708		mg/Kg		77	70 - 130	10	35

QC Sample Results

Client: Crain Environmental
Project/Site: Bagley #4 SWD

Job ID: 880-51419-1
SDG: Lea County NM

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

Lab Sample ID: 880-51419-38 MSD — **Client Sample ID: S-11 (2')**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 96441 — **Prep Batch: 96446**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m-Xylene & p-Xylene	<0.00227	U	0.200	0.1573		mg/Kg		78	70 - 130	8	35
o-Xylene	<0.00157	U	0.100	0.08391		mg/Kg		84	70 - 130	6	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

Lab Sample ID: MB 880-96521/5-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 96471 — **Prep Batch: 96521**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		11/25/24 12:14	11/25/24 13:18	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		11/25/24 12:14	11/25/24 13:18	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		11/25/24 12:14	11/25/24 13:18	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		11/25/24 12:14	11/25/24 13:18	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		11/25/24 12:14	11/25/24 13:18	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		11/25/24 12:14	11/25/24 13:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*11/25/24 12:14*	*11/25/24 13:18*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*11/25/24 12:14*	*11/25/24 13:18*	*1*

Lab Sample ID: LCS 880-96521/1-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 96471 — **Prep Batch: 96521**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1044		mg/Kg		104	70 - 130
Toluene	0.100	0.1033		mg/Kg		103	70 - 130
Ethylbenzene	0.100	0.1096		mg/Kg		110	70 - 130
m-Xylene & p-Xylene	0.200	0.2129		mg/Kg		106	70 - 130
o-Xylene	0.100	0.1179		mg/Kg		118	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 880-96521/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 96471 — **Prep Batch: 96521**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1083		mg/Kg		108	70 - 130	4	35
Toluene	0.100	0.1072		mg/Kg		107	70 - 130	4	35
Ethylbenzene	0.100	0.1143		mg/Kg		114	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.2212		mg/Kg		111	70 - 130	4	35
o-Xylene	0.100	0.1236		mg/Kg		124	70 - 130	5	35

QC Sample Results

Client: Crain Environmental
Project/Site: Bagley #4 SWD

Job ID: 880-51419-1
SDG: Lea County NM

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

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: 880-51482-A-2-A MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 96471 — **Prep Batch: 96521**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.00190	J	0.100	0.1093		mg/Kg		107	70 - 130
Toluene	0.0111		0.100	0.1105		mg/Kg		99	70 - 130
Ethylbenzene	0.00164	J	0.100	0.1120		mg/Kg		110	70 - 130
m-Xylene & p-Xylene	0.0230		0.200	0.2224		mg/Kg		100	70 - 130
o-Xylene	0.00747		0.100	0.1221		mg/Kg		115	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 880-51482-A-2-B MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 96471 — **Prep Batch: 96521**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.00190	J	0.100	0.09998		mg/Kg		98	70 - 130	9	35
Toluene	0.0111		0.100	0.1035		mg/Kg		92	70 - 130	7	35
Ethylbenzene	0.00164	J	0.100	0.1033		mg/Kg		102	70 - 130	8	35
m-Xylene & p-Xylene	0.0230		0.200	0.2053		mg/Kg		91	70 - 130	8	35
o-Xylene	0.00747		0.100	0.1136		mg/Kg		106	70 - 130	7	35

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

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

Lab Sample ID: MB 880-96410/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 96451 — **Prep Batch: 96410**

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		11/22/24 15:56	11/26/24 00:26	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		11/22/24 15:56	11/26/24 00:26	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		11/22/24 15:56	11/26/24 00:26	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130	11/22/24 15:56	11/26/24 00:26	1
o-Terphenyl	109		70 - 130	11/22/24 15:56	11/26/24 00:26	1

QC Sample Results

Client: Crain Environmental
Project/Site: Bagley #4 SWD

Job ID: 880-51419-1
SDG: Lea County NM

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

Lab Sample ID: LCS 880-96410/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 96451 — **Prep Batch: 96410**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1218		mg/Kg		122	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1127		mg/Kg		113	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*124*		*70 - 130*
o-Terphenyl	*120*		*70 - 130*

Lab Sample ID: LCSD 880-96410/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 96451 — **Prep Batch: 96410**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1123		mg/Kg		112	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	1000	969.8		mg/Kg		97	70 - 130	15	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*114*		*70 - 130*
o-Terphenyl	*113*		*70 - 130*

Lab Sample ID: 880-51418-A-57-C MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 96451 — **Prep Batch: 96410**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	999	884.8		mg/Kg		89	70 - 130
Diesel Range Organics (Over C10-C28)	<15.1	U	999	819.0		mg/Kg		82	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*95*		*70 - 130*
o-Terphenyl	*92*		*70 - 130*

Lab Sample ID: 880-51418-A-57-D MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 96451 — **Prep Batch: 96410**

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	997	888.6		mg/Kg		89	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<15.1	U	997	810.1		mg/Kg		81	70 - 130	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*95*		*70 - 130*

QC Sample Results

Client: Crain Environmental
Project/Site: Bagley #4 SWD

Job ID: 880-51419-1
SDG: Lea County NM

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

Lab Sample ID: 880-51418-A-57-D MSD
Matrix: Solid
Analysis Batch: 96451

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 96410

Surrogate	MSD %Recovery	MSD Qualifier	Limits
o-Terphenyl	92		70 - 130

Lab Sample ID: MB 880-96411/1-A
Matrix: Solid
Analysis Batch: 96626

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 96411

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		11/22/24 15:59	11/26/24 08:17	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		11/22/24 15:59	11/26/24 08:17	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		11/22/24 15:59	11/26/24 08:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	128		70 - 130	11/22/24 15:59	11/26/24 08:17	1
o-Terphenyl	117		70 - 130	11/22/24 15:59	11/26/24 08:17	1

Lab Sample ID: LCS 880-96411/2-A
Matrix: Solid
Analysis Batch: 96626

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 96411

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1073		mg/Kg		107	70 - 130
Diesel Range Organics (Over C10-C28)	1000	982.9		mg/Kg		98	70 - 130

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

Lab Sample ID: LCSD 880-96411/3-A
Matrix: Solid
Analysis Batch: 96626

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 96411

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1076		mg/Kg		108	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	1000	945.9		mg/Kg		95	70 - 130	4	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	105		70 - 130
o-Terphenyl	103		70 - 130

QC Sample Results

Client: Crain Environmental
Project/Site: Bagley #4 SWD

Job ID: 880-51419-1
SDG: Lea County NM

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

Lab Sample ID: 880-51419-35 MS
Matrix: Solid
Analysis Batch: 96626

Client Sample ID: S-10 (2')
Prep Type: Total/NA
Prep Batch: 96411

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	996	847.1		mg/Kg		85	70 - 130
Diesel Range Organics (Over C10-C28)	<15.1	U	996	766.9		mg/Kg		77	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*99*		*70 - 130*
o-Terphenyl	*94*		*70 - 130*

Lab Sample ID: 880-51419-35 MSD
Matrix: Solid
Analysis Batch: 96626

Client Sample ID: S-10 (2')
Prep Type: Total/NA
Prep Batch: 96411

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	996	852.8		mg/Kg		86	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<15.1	U	996	765.8		mg/Kg		77	70 - 130	0	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*99*		*70 - 130*
o-Terphenyl	*95*		*70 - 130*

Lab Sample ID: MB 880-96419/1-A
Matrix: Solid
Analysis Batch: 96493

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 96419

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		11/22/24 16:33	11/25/24 10:01	1
Diesel Range Organics (Over C10-C28)	15.29	J	50.0	15.1	mg/Kg		11/22/24 16:33	11/25/24 10:01	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		11/22/24 16:33	11/25/24 10:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*76*		*70 - 130*	*11/22/24 16:33*	*11/25/24 10:01*	*1*
o-Terphenyl	*82*		*70 - 130*	*11/22/24 16:33*	*11/25/24 10:01*	*1*

Lab Sample ID: LCS 880-96419/2-A
Matrix: Solid
Analysis Batch: 96493

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 96419

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1157		mg/Kg		116	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1030		mg/Kg		103	70 - 130

QC Sample Results

Client: Crain Environmental
Project/Site: Bagley #4 SWD

Job ID: 880-51419-1
SDG: Lea County NM

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

Lab Sample ID: LCS 880-96419/2-A
Matrix: Solid
Analysis Batch: 96493

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 96419

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	136	S1+	70 - 130
o-Terphenyl	131	S1+	70 - 130

Lab Sample ID: LCSD 880-96419/3-A
Matrix: Solid
Analysis Batch: 96493

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 96419

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1203		mg/Kg		120	70 - 130	4	20
Diesel Range Organics (Over C10-C28)			1000	1109		mg/Kg		111	70 - 130	7	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	143	S1+	70 - 130
o-Terphenyl	134	S1+	70 - 130

Lab Sample ID: 880-51419-67 MS
Matrix: Solid
Analysis Batch: 96493

Client Sample ID: S-20 (4.1')
Prep Type: Total/NA
Prep Batch: 96419

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	851.2		mg/Kg		85	70 - 130		
Diesel Range Organics (Over C10-C28)	<15.1	U	1000	744.9		mg/Kg		74	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	94		70 - 130
o-Terphenyl	87		70 - 130

Lab Sample ID: 880-51419-67 MSD
Matrix: Solid
Analysis Batch: 96493

Client Sample ID: S-20 (4.1')
Prep Type: Total/NA
Prep Batch: 96419

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	881.9		mg/Kg		88	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	<15.1	U	1000	746.8		mg/Kg		75	70 - 130	0	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	97		70 - 130
o-Terphenyl	88		70 - 130

QC Sample Results

Client: Crain Environmental
Project/Site: Bagley #4 SWD

Job ID: 880-51419-1
SDG: Lea County NM

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

Lab Sample ID: MB 880-96467/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 96624 — **Prep Batch: 96467**

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		11/25/24 08:25	11/26/24 08:02	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		11/25/24 08:25	11/26/24 08:02	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		11/25/24 08:25	11/26/24 08:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*113*		*70 - 130*	*11/25/24 08:25*	*11/26/24 08:02*	*1*
o-Terphenyl	*91*		*70 - 130*	*11/25/24 08:25*	*11/26/24 08:02*	*1*

Lab Sample ID: LCS 880-96467/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 96624 — **Prep Batch: 96467**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	993.9		mg/Kg		99	70 - 130
Diesel Range Organics (Over C10-C28)	1000	835.4		mg/Kg		84	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*90*		*70 - 130*
o-Terphenyl	*82*		*70 - 130*

Lab Sample ID: LCSD 880-96467/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 96624 — **Prep Batch: 96467**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1036		mg/Kg		104	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	1000	827.1		mg/Kg		83	70 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*92*		*70 - 130*
o-Terphenyl	*82*		*70 - 130*

Lab Sample ID: 880-51433-A-4-D MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 96624 — **Prep Batch: 96467**

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 F2	999	972.0		mg/Kg		97	70 - 130
Diesel Range Organics (Over C10-C28)	<15.1	U F1	999	783.4		mg/Kg		78	70 - 130

QC Sample Results

Client: Crain Environmental
Project/Site: Bagley #4 SWD

Job ID: 880-51419-1
SDG: Lea County NM

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

Lab Sample ID: 880-51433-A-4-D MS
Matrix: Solid
Analysis Batch: 96624

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 96467

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	102		70 - 130
o-Terphenyl	84		70 - 130

Lab Sample ID: 880-51433-A-4-E MSD
Matrix: Solid
Analysis Batch: 96624

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 96467

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 F2	999	785.4	F2	mg/Kg		79	70 - 130	21	20
Diesel Range Organics (Over C10-C28)	<15.1	U F1	999	649.7	F1	mg/Kg		65	70 - 130	19	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	84		70 - 130
o-Terphenyl	71		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-96513/1-A
Matrix: Solid
Analysis Batch: 96520

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			11/25/24 22:08	1

Lab Sample ID: LCS 880-96513/2-A
Matrix: Solid
Analysis Batch: 96520

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	249.7		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-96513/3-A
Matrix: Solid
Analysis Batch: 96520

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	250.4		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 880-51419-1 MS
Matrix: Solid
Analysis Batch: 96520

Client Sample ID: S-1 (0-6")
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	552		250	816.9		mg/Kg		106	90 - 110

QC Sample Results

Client: Crain Environmental
Project/Site: Bagley #4 SWD

Job ID: 880-51419-1
SDG: Lea County NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-51419-1 MSD — **Client Sample ID: S-1 (0-6")**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 96520

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	552		250	817.4		mg/Kg		106	90 - 110	0	20

Lab Sample ID: 880-51419-23 MS — **Client Sample ID: S-6 (4')**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 96520

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	2610	F1	1240	4070	F1	mg/Kg		117	90 - 110

Lab Sample ID: 880-51419-23 MSD — **Client Sample ID: S-6 (4')**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 96520

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	2610	F1	1240	4076	F1	mg/Kg		118	90 - 110	0	20

Lab Sample ID: MB 880-96515/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 96535

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.395	U	10.0	0.395	mg/Kg			11/25/24 21:57	1

Lab Sample ID: LCS 880-96515/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 96535

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	257.2		mg/Kg		103	90 - 110

Lab Sample ID: LCSD 880-96515/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 96535

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	256.8		mg/Kg		103	90 - 110	0	20

Lab Sample ID: 880-51419-38 MS — **Client Sample ID: S-11 (2')**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 96535

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	764		1260	2121		mg/Kg		108	90 - 110

Lab Sample ID: 880-51419-38 MSD — **Client Sample ID: S-11 (2')**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 96535

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	764		1260	2133		mg/Kg		109	90 - 110	1	20

QC Sample Results

Client: Crain Environmental
Project/Site: Bagley #4 SWD

Job ID: 880-51419-1
SDG: Lea County NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-51419-53 MS
Matrix: Solid
Analysis Batch: 96535

Client Sample ID: S-17 (1.5')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	2420	F1	1250	2732	F1	mg/Kg		25	90 - 110		

Lab Sample ID: 880-51419-53 MSD
Matrix: Solid
Analysis Batch: 96535

Client Sample ID: S-17 (1.5')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	2420	F1	1250	2815	F1	mg/Kg		31	90 - 110	3	20

Lab Sample ID: MB 880-96516/1-A
Matrix: Solid
Analysis Batch: 96541

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			11/26/24 02:53	1

Lab Sample ID: LCS 880-96516/2-A
Matrix: Solid
Analysis Batch: 96541

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	252.5		mg/Kg		101	90 - 110

Lab Sample ID: LCSD 880-96516/3-A
Matrix: Solid
Analysis Batch: 96541

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	252.4		mg/Kg		101	90 - 110	0	20

Lab Sample ID: 880-51419-70 MS
Matrix: Solid
Analysis Batch: 96541

Client Sample ID: S-21 (2')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	175	F1	252	583.3	F1	mg/Kg		162	90 - 110		

Lab Sample ID: 880-51419-70 MSD
Matrix: Solid
Analysis Batch: 96541

Client Sample ID: S-21 (2')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	175	F1	252	583.7	F1	mg/Kg		162	90 - 110	0	20

Lab Sample ID: MB 880-96517/1-A
Matrix: Solid
Analysis Batch: 96559

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			11/26/24 07:14	1

QC Sample Results

Client: Crain Environmental
Project/Site: Bagley #4 SWD

Job ID: 880-51419-1
SDG: Lea County NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 880-96517/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 96559

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	254.0		mg/Kg		102	90 - 110		

Lab Sample ID: LCSD 880-96517/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 96559

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	254.7		mg/Kg		102	90 - 110	0	20

Lab Sample ID: 880-51419-5 MS — **Client Sample ID: S-1 (4.1')**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 96559

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	1170		1240	2494		mg/Kg		107	90 - 110		

Lab Sample ID: 880-51419-5 MSD — **Client Sample ID: S-1 (4.1')**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 96559

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1170		1240	2495		mg/Kg		107	90 - 110	0	20

QC Association Summary

Client: Crain Environmental
Project/Site: Bagley #4 SWD

Job ID: 880-51419-1
SDG: Lea County NM

GC VOA

Prep Batch: 96416

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-96416/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 96418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51419-70	S-21 (2')	Total/NA	Solid	5035	
MB 880-96418/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-96418/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-96418/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-51418-A-41-E MS	Matrix Spike	Total/NA	Solid	5035	
880-51418-A-41-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 96438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51419-1	S-1 (0-6")	Total/NA	Solid	8021B	96445
880-51419-6	S-2 (0-6")	Total/NA	Solid	8021B	96445
880-51419-8	S-2 (1.5')	Total/NA	Solid	8021B	96445
880-51419-9	S-3 (0-6")	Total/NA	Solid	8021B	96445
880-51419-11	S-3 (2')	Total/NA	Solid	8021B	96445
880-51419-12	S-4 (0-6")	Total/NA	Solid	8021B	96445
880-51419-14	S-4 (1.5')	Total/NA	Solid	8021B	96445
880-51419-15	S-5 (0-6")	Total/NA	Solid	8021B	96445
880-51419-18	S-5 (3')	Total/NA	Solid	8021B	96445
880-51419-19	S-6 (0-6")	Total/NA	Solid	8021B	96445
880-51419-23	S-6 (4')	Total/NA	Solid	8021B	96445
880-51419-24	S-7 (0-6")	Total/NA	Solid	8021B	96445
880-51419-26	S-7 (2')	Total/NA	Solid	8021B	96445
880-51419-27	S-8 (0-6")	Total/NA	Solid	8021B	96445
880-51419-29	S-8 (2')	Total/NA	Solid	8021B	96445
880-51419-30	S-9 (0-6")	Total/NA	Solid	8021B	96445
880-51419-32	S-9 (2')	Total/NA	Solid	8021B	96445
880-51419-33	S-10 (0-6")	Total/NA	Solid	8021B	96445
880-51419-35	S-10 (2')	Total/NA	Solid	8021B	96445
880-51419-36	S-11 (0-6")	Total/NA	Solid	8021B	96445
MB 880-96445/5-A	Method Blank	Total/NA	Solid	8021B	96445
LCS 880-96445/1-A	Lab Control Sample	Total/NA	Solid	8021B	96445
LCSD 880-96445/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	96445
880-51419-1 MS	S-1 (0-6")	Total/NA	Solid	8021B	96445
880-51419-1 MSD	S-1 (0-6")	Total/NA	Solid	8021B	96445

Analysis Batch: 96439

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51419-70	S-21 (2')	Total/NA	Solid	8021B	96418
MB 880-96418/5-A	Method Blank	Total/NA	Solid	8021B	96418
MB 880-96443/25-A	Method Blank	Total/NA	Solid	8021B	96443
LCS 880-96418/1-A	Lab Control Sample	Total/NA	Solid	8021B	96418
LCSD 880-96418/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	96418
880-51418-A-41-E MS	Matrix Spike	Total/NA	Solid	8021B	96418
880-51418-A-41-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	96418

QC Association Summary

Client: Crain Environmental
Project/Site: Bagley #4 SWD

Job ID: 880-51419-1
SDG: Lea County NM

GC VOA

Analysis Batch: 96441

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51419-38	S-11 (2')	Total/NA	Solid	8021B	96446
880-51419-39	S-12 (0-6")	Total/NA	Solid	8021B	96446
880-51419-41	S-12 (2')	Total/NA	Solid	8021B	96446
880-51419-42	S-14 (0-6")	Total/NA	Solid	8021B	96446
880-51419-44	S-14 (1.5')	Total/NA	Solid	8021B	96446
880-51419-45	S-15 (0-6")	Total/NA	Solid	8021B	96446
880-51419-47	S-15 (2')	Total/NA	Solid	8021B	96446
880-51419-48	S-16 (0-6")	Total/NA	Solid	8021B	96446
880-51419-50	S-16 (1.5')	Total/NA	Solid	8021B	96446
880-51419-51	S-17 (0-6")	Total/NA	Solid	8021B	96446
880-51419-53	S-17 (1.5')	Total/NA	Solid	8021B	96446
880-51419-54	S-13 (0-6")	Total/NA	Solid	8021B	96446
880-51419-56	S-13 (2')	Total/NA	Solid	8021B	96446
880-51419-57	S-18 (0-6")	Total/NA	Solid	8021B	96446
880-51419-59	S-18 (1.5')	Total/NA	Solid	8021B	96446
880-51419-60	S-19 (0-6")	Total/NA	Solid	8021B	96446
880-51419-62	S-19 (2')	Total/NA	Solid	8021B	96446
880-51419-63	S-20 (0-6")	Total/NA	Solid	8021B	96446
880-51419-67	S-20 (4.1')	Total/NA	Solid	8021B	96446
880-51419-68	S-21 (0-6")	Total/NA	Solid	8021B	96446
MB 880-96416/5-A	Method Blank	Total/NA	Solid	8021B	96416
MB 880-96446/5-A	Method Blank	Total/NA	Solid	8021B	96446
LCS 880-96446/1-A	Lab Control Sample	Total/NA	Solid	8021B	96446
LCSD 880-96446/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	96446
880-51419-38 MS	S-11 (2')	Total/NA	Solid	8021B	96446
880-51419-38 MSD	S-11 (2')	Total/NA	Solid	8021B	96446

Prep Batch: 96443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-96443/25-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 96445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51419-1	S-1 (0-6")	Total/NA	Solid	5035	
880-51419-6	S-2 (0-6")	Total/NA	Solid	5035	
880-51419-8	S-2 (1.5')	Total/NA	Solid	5035	
880-51419-9	S-3 (0-6")	Total/NA	Solid	5035	
880-51419-11	S-3 (2')	Total/NA	Solid	5035	
880-51419-12	S-4 (0-6")	Total/NA	Solid	5035	
880-51419-14	S-4 (1.5')	Total/NA	Solid	5035	
880-51419-15	S-5 (0-6")	Total/NA	Solid	5035	
880-51419-18	S-5 (3')	Total/NA	Solid	5035	
880-51419-19	S-6 (0-6")	Total/NA	Solid	5035	
880-51419-23	S-6 (4')	Total/NA	Solid	5035	
880-51419-24	S-7 (0-6")	Total/NA	Solid	5035	
880-51419-26	S-7 (2')	Total/NA	Solid	5035	
880-51419-27	S-8 (0-6")	Total/NA	Solid	5035	
880-51419-29	S-8 (2')	Total/NA	Solid	5035	
880-51419-30	S-9 (0-6")	Total/NA	Solid	5035	
880-51419-32	S-9 (2')	Total/NA	Solid	5035	
880-51419-33	S-10 (0-6")	Total/NA	Solid	5035	

QC Association Summary

Client: Crain Environmental
Project/Site: Bagley #4 SWD

Job ID: 880-51419-1
SDG: Lea County NM

GC VOA (Continued)

Prep Batch: 96445 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51419-35	S-10 (2')	Total/NA	Solid	5035	
880-51419-36	S-11 (0-6")	Total/NA	Solid	5035	
MB 880-96445/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-96445/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-96445/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-51419-1 MS	S-1 (0-6")	Total/NA	Solid	5035	
880-51419-1 MSD	S-1 (0-6")	Total/NA	Solid	5035	

Prep Batch: 96446

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51419-38	S-11 (2')	Total/NA	Solid	5035	
880-51419-39	S-12 (0-6")	Total/NA	Solid	5035	
880-51419-41	S-12 (2')	Total/NA	Solid	5035	
880-51419-42	S-14 (0-6")	Total/NA	Solid	5035	
880-51419-44	S-14 (1.5')	Total/NA	Solid	5035	
880-51419-45	S-15 (0-6")	Total/NA	Solid	5035	
880-51419-47	S-15 (2')	Total/NA	Solid	5035	
880-51419-48	S-16 (0-6")	Total/NA	Solid	5035	
880-51419-50	S-16 (1.5')	Total/NA	Solid	5035	
880-51419-51	S-17 (0-6")	Total/NA	Solid	5035	
880-51419-53	S-17 (1.5')	Total/NA	Solid	5035	
880-51419-54	S-13 (0-6")	Total/NA	Solid	5035	
880-51419-56	S-13 (2')	Total/NA	Solid	5035	
880-51419-57	S-18 (0-6")	Total/NA	Solid	5035	
880-51419-59	S-18 (1.5')	Total/NA	Solid	5035	
880-51419-60	S-19 (0-6")	Total/NA	Solid	5035	
880-51419-62	S-19 (2')	Total/NA	Solid	5035	
880-51419-63	S-20 (0-6")	Total/NA	Solid	5035	
880-51419-67	S-20 (4.1')	Total/NA	Solid	5035	
880-51419-68	S-21 (0-6")	Total/NA	Solid	5035	
MB 880-96446/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-96446/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-96446/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-51419-38 MS	S-11 (2')	Total/NA	Solid	5035	
880-51419-38 MSD	S-11 (2')	Total/NA	Solid	5035	

Analysis Batch: 96471

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51419-5	S-1 (4.1')	Total/NA	Solid	8021B	96521
MB 880-96521/5-A	Method Blank	Total/NA	Solid	8021B	96521
LCS 880-96521/1-A	Lab Control Sample	Total/NA	Solid	8021B	96521
LCSD 880-96521/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	96521
880-51482-A-2-A MS	Matrix Spike	Total/NA	Solid	8021B	96521
880-51482-A-2-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	96521

Prep Batch: 96521

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51419-5	S-1 (4.1')	Total/NA	Solid	5035	
MB 880-96521/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-96521/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-96521/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

QC Association Summary

Client: Crain Environmental
Project/Site: Bagley #4 SWD

Job ID: 880-51419-1
SDG: Lea County NM

GC VOA (Continued)

Prep Batch: 96521 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51482-A-2-A MS	Matrix Spike	Total/NA	Solid	5035	
880-51482-A-2-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 96539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51419-1	S-1 (0-6")	Total/NA	Solid	Total BTEX	
880-51419-5	S-1 (4.1')	Total/NA	Solid	Total BTEX	
880-51419-6	S-2 (0-6")	Total/NA	Solid	Total BTEX	
880-51419-8	S-2 (1.5')	Total/NA	Solid	Total BTEX	
880-51419-9	S-3 (0-6")	Total/NA	Solid	Total BTEX	
880-51419-11	S-3 (2')	Total/NA	Solid	Total BTEX	
880-51419-12	S-4 (0-6")	Total/NA	Solid	Total BTEX	
880-51419-14	S-4 (1.5')	Total/NA	Solid	Total BTEX	
880-51419-15	S-5 (0-6")	Total/NA	Solid	Total BTEX	
880-51419-18	S-5 (3')	Total/NA	Solid	Total BTEX	
880-51419-19	S-6 (0-6")	Total/NA	Solid	Total BTEX	
880-51419-23	S-6 (4')	Total/NA	Solid	Total BTEX	
880-51419-24	S-7 (0-6")	Total/NA	Solid	Total BTEX	
880-51419-26	S-7 (2')	Total/NA	Solid	Total BTEX	
880-51419-27	S-8 (0-6")	Total/NA	Solid	Total BTEX	
880-51419-29	S-8 (2')	Total/NA	Solid	Total BTEX	
880-51419-30	S-9 (0-6")	Total/NA	Solid	Total BTEX	
880-51419-32	S-9 (2')	Total/NA	Solid	Total BTEX	
880-51419-33	S-10 (0-6")	Total/NA	Solid	Total BTEX	
880-51419-35	S-10 (2')	Total/NA	Solid	Total BTEX	
880-51419-36	S-11 (0-6")	Total/NA	Solid	Total BTEX	
880-51419-38	S-11 (2')	Total/NA	Solid	Total BTEX	
880-51419-39	S-12 (0-6")	Total/NA	Solid	Total BTEX	
880-51419-41	S-12 (2')	Total/NA	Solid	Total BTEX	
880-51419-42	S-14 (0-6")	Total/NA	Solid	Total BTEX	
880-51419-44	S-14 (1.5')	Total/NA	Solid	Total BTEX	
880-51419-45	S-15 (0-6")	Total/NA	Solid	Total BTEX	
880-51419-47	S-15 (2')	Total/NA	Solid	Total BTEX	
880-51419-48	S-16 (0-6")	Total/NA	Solid	Total BTEX	
880-51419-50	S-16 (1.5')	Total/NA	Solid	Total BTEX	
880-51419-51	S-17 (0-6")	Total/NA	Solid	Total BTEX	
880-51419-53	S-17 (1.5')	Total/NA	Solid	Total BTEX	
880-51419-54	S-13 (0-6")	Total/NA	Solid	Total BTEX	
880-51419-56	S-13 (2')	Total/NA	Solid	Total BTEX	
880-51419-57	S-18 (0-6")	Total/NA	Solid	Total BTEX	
880-51419-59	S-18 (1.5')	Total/NA	Solid	Total BTEX	
880-51419-60	S-19 (0-6")	Total/NA	Solid	Total BTEX	
880-51419-62	S-19 (2')	Total/NA	Solid	Total BTEX	
880-51419-63	S-20 (0-6")	Total/NA	Solid	Total BTEX	
880-51419-67	S-20 (4.1')	Total/NA	Solid	Total BTEX	
880-51419-68	S-21 (0-6")	Total/NA	Solid	Total BTEX	
880-51419-70	S-21 (2')	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Crain Environmental
Project/Site: Bagley #4 SWD

Job ID: 880-51419-1
SDG: Lea County NM

GC Semi VOA

Prep Batch: 96410

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51419-1	S-1 (0-6")	Total/NA	Solid	8015NM Prep	
880-51419-6	S-2 (0-6")	Total/NA	Solid	8015NM Prep	
880-51419-8	S-2 (1.5')	Total/NA	Solid	8015NM Prep	
880-51419-9	S-3 (0-6")	Total/NA	Solid	8015NM Prep	
880-51419-11	S-3 (2')	Total/NA	Solid	8015NM Prep	
880-51419-12	S-4 (0-6")	Total/NA	Solid	8015NM Prep	
880-51419-14	S-4 (1.5')	Total/NA	Solid	8015NM Prep	
880-51419-15	S-5 (0-6")	Total/NA	Solid	8015NM Prep	
880-51419-18	S-5 (3')	Total/NA	Solid	8015NM Prep	
880-51419-19	S-6 (0-6")	Total/NA	Solid	8015NM Prep	
880-51419-23	S-6 (4')	Total/NA	Solid	8015NM Prep	
880-51419-24	S-7 (0-6")	Total/NA	Solid	8015NM Prep	
880-51419-26	S-7 (2')	Total/NA	Solid	8015NM Prep	
880-51419-27	S-8 (0-6")	Total/NA	Solid	8015NM Prep	
880-51419-29	S-8 (2')	Total/NA	Solid	8015NM Prep	
880-51419-30	S-9 (0-6")	Total/NA	Solid	8015NM Prep	
880-51419-32	S-9 (2')	Total/NA	Solid	8015NM Prep	
880-51419-33	S-10 (0-6")	Total/NA	Solid	8015NM Prep	
MB 880-96410/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-96410/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-96410/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-51418-A-57-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-51418-A-57-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 96411

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51419-35	S-10 (2')	Total/NA	Solid	8015NM Prep	
880-51419-36	S-11 (0-6")	Total/NA	Solid	8015NM Prep	
880-51419-38	S-11 (2')	Total/NA	Solid	8015NM Prep	
880-51419-39	S-12 (0-6")	Total/NA	Solid	8015NM Prep	
880-51419-41	S-12 (2')	Total/NA	Solid	8015NM Prep	
880-51419-42	S-14 (0-6")	Total/NA	Solid	8015NM Prep	
880-51419-44	S-14 (1.5')	Total/NA	Solid	8015NM Prep	
880-51419-45	S-15 (0-6")	Total/NA	Solid	8015NM Prep	
880-51419-47	S-15 (2')	Total/NA	Solid	8015NM Prep	
880-51419-48	S-16 (0-6")	Total/NA	Solid	8015NM Prep	
880-51419-50	S-16 (1.5')	Total/NA	Solid	8015NM Prep	
880-51419-51	S-17 (0-6")	Total/NA	Solid	8015NM Prep	
880-51419-53	S-17 (1.5')	Total/NA	Solid	8015NM Prep	
880-51419-54	S-13 (0-6")	Total/NA	Solid	8015NM Prep	
880-51419-56	S-13 (2')	Total/NA	Solid	8015NM Prep	
880-51419-57	S-18 (0-6")	Total/NA	Solid	8015NM Prep	
880-51419-59	S-18 (1.5')	Total/NA	Solid	8015NM Prep	
880-51419-60	S-19 (0-6")	Total/NA	Solid	8015NM Prep	
880-51419-62	S-19 (2')	Total/NA	Solid	8015NM Prep	
880-51419-63	S-20 (0-6")	Total/NA	Solid	8015NM Prep	
MB 880-96411/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-96411/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-96411/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-51419-35 MS	S-10 (2')	Total/NA	Solid	8015NM Prep	
880-51419-35 MSD	S-10 (2')	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Crain Environmental
Project/Site: Bagley #4 SWD

Job ID: 880-51419-1
SDG: Lea County NM

GC Semi VOA

Prep Batch: 96419

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51419-67	S-20 (4.1')	Total/NA	Solid	8015NM Prep	
880-51419-68	S-21 (0-6")	Total/NA	Solid	8015NM Prep	
MB 880-96419/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-96419/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-96419/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-51419-67 MS	S-20 (4.1')	Total/NA	Solid	8015NM Prep	
880-51419-67 MSD	S-20 (4.1')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 96451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51419-1	S-1 (0-6")	Total/NA	Solid	8015B NM	96410
880-51419-6	S-2 (0-6")	Total/NA	Solid	8015B NM	96410
880-51419-8	S-2 (1.5')	Total/NA	Solid	8015B NM	96410
880-51419-9	S-3 (0-6")	Total/NA	Solid	8015B NM	96410
880-51419-11	S-3 (2')	Total/NA	Solid	8015B NM	96410
880-51419-12	S-4 (0-6")	Total/NA	Solid	8015B NM	96410
880-51419-14	S-4 (1.5')	Total/NA	Solid	8015B NM	96410
880-51419-15	S-5 (0-6")	Total/NA	Solid	8015B NM	96410
880-51419-18	S-5 (3')	Total/NA	Solid	8015B NM	96410
880-51419-19	S-6 (0-6")	Total/NA	Solid	8015B NM	96410
880-51419-23	S-6 (4')	Total/NA	Solid	8015B NM	96410
880-51419-24	S-7 (0-6")	Total/NA	Solid	8015B NM	96410
880-51419-26	S-7 (2')	Total/NA	Solid	8015B NM	96410
880-51419-27	S-8 (0-6")	Total/NA	Solid	8015B NM	96410
880-51419-29	S-8 (2')	Total/NA	Solid	8015B NM	96410
880-51419-30	S-9 (0-6")	Total/NA	Solid	8015B NM	96410
880-51419-32	S-9 (2')	Total/NA	Solid	8015B NM	96410
880-51419-33	S-10 (0-6")	Total/NA	Solid	8015B NM	96410
MB 880-96410/1-A	Method Blank	Total/NA	Solid	8015B NM	96410
LCS 880-96410/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	96410
LCSD 880-96410/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	96410
880-51418-A-57-C MS	Matrix Spike	Total/NA	Solid	8015B NM	96410
880-51418-A-57-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	96410

Prep Batch: 96467

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51419-5	S-1 (4.1')	Total/NA	Solid	8015NM Prep	
880-51419-70	S-21 (2')	Total/NA	Solid	8015NM Prep	
MB 880-96467/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-96467/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-96467/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-51433-A-4-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-51433-A-4-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 96493

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51419-67	S-20 (4.1')	Total/NA	Solid	8015B NM	96419
880-51419-68	S-21 (0-6")	Total/NA	Solid	8015B NM	96419
MB 880-96419/1-A	Method Blank	Total/NA	Solid	8015B NM	96419
LCS 880-96419/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	96419
LCSD 880-96419/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	96419

QC Association Summary

Client: Crain Environmental
Project/Site: Bagley #4 SWD

Job ID: 880-51419-1
SDG: Lea County NM

GC Semi VOA (Continued)

Analysis Batch: 96493 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51419-67 MS	S-20 (4.1')	Total/NA	Solid	8015B NM	96419
880-51419-67 MSD	S-20 (4.1')	Total/NA	Solid	8015B NM	96419

Analysis Batch: 96567

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51419-1	S-1 (0-6")	Total/NA	Solid	8015 NM	
880-51419-5	S-1 (4.1')	Total/NA	Solid	8015 NM	
880-51419-6	S-2 (0-6")	Total/NA	Solid	8015 NM	
880-51419-8	S-2 (1.5')	Total/NA	Solid	8015 NM	
880-51419-9	S-3 (0-6")	Total/NA	Solid	8015 NM	
880-51419-11	S-3 (2')	Total/NA	Solid	8015 NM	
880-51419-12	S-4 (0-6")	Total/NA	Solid	8015 NM	
880-51419-14	S-4 (1.5')	Total/NA	Solid	8015 NM	
880-51419-15	S-5 (0-6")	Total/NA	Solid	8015 NM	
880-51419-18	S-5 (3')	Total/NA	Solid	8015 NM	
880-51419-19	S-6 (0-6")	Total/NA	Solid	8015 NM	
880-51419-23	S-6 (4')	Total/NA	Solid	8015 NM	
880-51419-24	S-7 (0-6")	Total/NA	Solid	8015 NM	
880-51419-26	S-7 (2')	Total/NA	Solid	8015 NM	
880-51419-27	S-8 (0-6")	Total/NA	Solid	8015 NM	
880-51419-29	S-8 (2')	Total/NA	Solid	8015 NM	
880-51419-30	S-9 (0-6")	Total/NA	Solid	8015 NM	
880-51419-32	S-9 (2')	Total/NA	Solid	8015 NM	
880-51419-33	S-10 (0-6")	Total/NA	Solid	8015 NM	
880-51419-35	S-10 (2')	Total/NA	Solid	8015 NM	
880-51419-36	S-11 (0-6")	Total/NA	Solid	8015 NM	
880-51419-38	S-11 (2')	Total/NA	Solid	8015 NM	
880-51419-39	S-12 (0-6")	Total/NA	Solid	8015 NM	
880-51419-41	S-12 (2')	Total/NA	Solid	8015 NM	
880-51419-42	S-14 (0-6")	Total/NA	Solid	8015 NM	
880-51419-44	S-14 (1.5')	Total/NA	Solid	8015 NM	
880-51419-45	S-15 (0-6")	Total/NA	Solid	8015 NM	
880-51419-47	S-15 (2')	Total/NA	Solid	8015 NM	
880-51419-48	S-16 (0-6")	Total/NA	Solid	8015 NM	
880-51419-50	S-16 (1.5')	Total/NA	Solid	8015 NM	
880-51419-51	S-17 (0-6")	Total/NA	Solid	8015 NM	
880-51419-53	S-17 (1.5')	Total/NA	Solid	8015 NM	
880-51419-54	S-13 (0-6")	Total/NA	Solid	8015 NM	
880-51419-56	S-13 (2')	Total/NA	Solid	8015 NM	
880-51419-57	S-18 (0-6")	Total/NA	Solid	8015 NM	
880-51419-59	S-18 (1.5')	Total/NA	Solid	8015 NM	
880-51419-60	S-19 (0-6")	Total/NA	Solid	8015 NM	
880-51419-62	S-19 (2')	Total/NA	Solid	8015 NM	
880-51419-63	S-20 (0-6")	Total/NA	Solid	8015 NM	
880-51419-67	S-20 (4.1')	Total/NA	Solid	8015 NM	
880-51419-68	S-21 (0-6")	Total/NA	Solid	8015 NM	
880-51419-70	S-21 (2')	Total/NA	Solid	8015 NM	

Analysis Batch: 96624

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51419-5	S-1 (4.1')	Total/NA	Solid	8015B NM	96467

QC Association Summary

Client: Crain Environmental
Project/Site: Bagley #4 SWD

Job ID: 880-51419-1
SDG: Lea County NM

GC Semi VOA (Continued)

Analysis Batch: 96624 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51419-70	S-21 (2')	Total/NA	Solid	8015B NM	96467
MB 880-96467/1-A	Method Blank	Total/NA	Solid	8015B NM	96467
LCS 880-96467/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	96467
LCSD 880-96467/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	96467
880-51433-A-4-D MS	Matrix Spike	Total/NA	Solid	8015B NM	96467
880-51433-A-4-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	96467

Analysis Batch: 96626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51419-35	S-10 (2')	Total/NA	Solid	8015B NM	96411
880-51419-36	S-11 (0-6")	Total/NA	Solid	8015B NM	96411
880-51419-38	S-11 (2')	Total/NA	Solid	8015B NM	96411
880-51419-39	S-12 (0-6")	Total/NA	Solid	8015B NM	96411
880-51419-41	S-12 (2')	Total/NA	Solid	8015B NM	96411
880-51419-42	S-14 (0-6")	Total/NA	Solid	8015B NM	96411
880-51419-44	S-14 (1.5')	Total/NA	Solid	8015B NM	96411
880-51419-45	S-15 (0-6")	Total/NA	Solid	8015B NM	96411
880-51419-47	S-15 (2')	Total/NA	Solid	8015B NM	96411
880-51419-48	S-16 (0-6")	Total/NA	Solid	8015B NM	96411
880-51419-50	S-16 (1.5')	Total/NA	Solid	8015B NM	96411
880-51419-51	S-17 (0-6")	Total/NA	Solid	8015B NM	96411
880-51419-53	S-17 (1.5')	Total/NA	Solid	8015B NM	96411
880-51419-54	S-13 (0-6")	Total/NA	Solid	8015B NM	96411
880-51419-56	S-13 (2')	Total/NA	Solid	8015B NM	96411
880-51419-57	S-18 (0-6")	Total/NA	Solid	8015B NM	96411
880-51419-59	S-18 (1.5')	Total/NA	Solid	8015B NM	96411
880-51419-60	S-19 (0-6")	Total/NA	Solid	8015B NM	96411
880-51419-62	S-19 (2')	Total/NA	Solid	8015B NM	96411
880-51419-63	S-20 (0-6")	Total/NA	Solid	8015B NM	96411
MB 880-96411/1-A	Method Blank	Total/NA	Solid	8015B NM	96411
LCS 880-96411/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	96411
LCSD 880-96411/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	96411
880-51419-35 MS	S-10 (2')	Total/NA	Solid	8015B NM	96411
880-51419-35 MSD	S-10 (2')	Total/NA	Solid	8015B NM	96411

HPLC/IC

Leach Batch: 96513

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51419-1	S-1 (0-6")	Soluble	Solid	DI Leach	
880-51419-6	S-2 (0-6")	Soluble	Solid	DI Leach	
880-51419-8	S-2 (1.5')	Soluble	Solid	DI Leach	
880-51419-9	S-3 (0-6")	Soluble	Solid	DI Leach	
880-51419-11	S-3 (2')	Soluble	Solid	DI Leach	
880-51419-12	S-4 (0-6")	Soluble	Solid	DI Leach	
880-51419-14	S-4 (1.5')	Soluble	Solid	DI Leach	
880-51419-15	S-5 (0-6")	Soluble	Solid	DI Leach	
880-51419-18	S-5 (3')	Soluble	Solid	DI Leach	
880-51419-19	S-6 (0-6")	Soluble	Solid	DI Leach	
880-51419-23	S-6 (4')	Soluble	Solid	DI Leach	
880-51419-24	S-7 (0-6")	Soluble	Solid	DI Leach	

QC Association Summary

Client: Crain Environmental
Project/Site: Bagley #4 SWD

Job ID: 880-51419-1
SDG: Lea County NM

HPLC/IC (Continued)

Leach Batch: 96513 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51419-26	S-7 (2')	Soluble	Solid	DI Leach	
880-51419-27	S-8 (0-6")	Soluble	Solid	DI Leach	
880-51419-29	S-8 (2')	Soluble	Solid	DI Leach	
880-51419-30	S-9 (0-6")	Soluble	Solid	DI Leach	
880-51419-32	S-9 (2')	Soluble	Solid	DI Leach	
880-51419-33	S-10 (0-6")	Soluble	Solid	DI Leach	
880-51419-35	S-10 (2')	Soluble	Solid	DI Leach	
880-51419-36	S-11 (0-6")	Soluble	Solid	DI Leach	
MB 880-96513/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-96513/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-96513/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-51419-1 MS	S-1 (0-6")	Soluble	Solid	DI Leach	
880-51419-1 MSD	S-1 (0-6")	Soluble	Solid	DI Leach	
880-51419-23 MS	S-6 (4')	Soluble	Solid	DI Leach	
880-51419-23 MSD	S-6 (4')	Soluble	Solid	DI Leach	

Leach Batch: 96515

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51419-38	S-11 (2')	Soluble	Solid	DI Leach	
880-51419-39	S-12 (0-6")	Soluble	Solid	DI Leach	
880-51419-41	S-12 (2')	Soluble	Solid	DI Leach	
880-51419-42	S-14 (0-6")	Soluble	Solid	DI Leach	
880-51419-44	S-14 (1.5')	Soluble	Solid	DI Leach	
880-51419-45	S-15 (0-6")	Soluble	Solid	DI Leach	
880-51419-47	S-15 (2')	Soluble	Solid	DI Leach	
880-51419-48	S-16 (0-6")	Soluble	Solid	DI Leach	
880-51419-50	S-16 (1.5')	Soluble	Solid	DI Leach	
880-51419-51	S-17 (0-6")	Soluble	Solid	DI Leach	
880-51419-53	S-17 (1.5')	Soluble	Solid	DI Leach	
880-51419-54	S-13 (0-6")	Soluble	Solid	DI Leach	
880-51419-56	S-13 (2')	Soluble	Solid	DI Leach	
880-51419-57	S-18 (0-6")	Soluble	Solid	DI Leach	
880-51419-59	S-18 (1.5')	Soluble	Solid	DI Leach	
880-51419-60	S-19 (0-6")	Soluble	Solid	DI Leach	
880-51419-62	S-19 (2')	Soluble	Solid	DI Leach	
880-51419-63	S-20 (0-6")	Soluble	Solid	DI Leach	
880-51419-67	S-20 (4.1')	Soluble	Solid	DI Leach	
880-51419-68	S-21 (0-6")	Soluble	Solid	DI Leach	
MB 880-96515/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-96515/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-96515/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-51419-38 MS	S-11 (2')	Soluble	Solid	DI Leach	
880-51419-38 MSD	S-11 (2')	Soluble	Solid	DI Leach	
880-51419-53 MS	S-17 (1.5')	Soluble	Solid	DI Leach	
880-51419-53 MSD	S-17 (1.5')	Soluble	Solid	DI Leach	

Leach Batch: 96516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51419-70	S-21 (2')	Soluble	Solid	DI Leach	
MB 880-96516/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-96516/2-A	Lab Control Sample	Soluble	Solid	DI Leach	

QC Association Summary

Client: Crain Environmental
Project/Site: Bagley #4 SWD

Job ID: 880-51419-1
SDG: Lea County NM

HPLC/IC (Continued)

Leach Batch: 96516 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-96516/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-51419-70 MS	S-21 (2')	Soluble	Solid	DI Leach	
880-51419-70 MSD	S-21 (2')	Soluble	Solid	DI Leach	

Leach Batch: 96517

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51419-5	S-1 (4.1')	Soluble	Solid	DI Leach	
MB 880-96517/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-96517/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-96517/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-51419-5 MS	S-1 (4.1')	Soluble	Solid	DI Leach	
880-51419-5 MSD	S-1 (4.1')	Soluble	Solid	DI Leach	

Analysis Batch: 96520

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51419-1	S-1 (0-6")	Soluble	Solid	300.0	96513
880-51419-6	S-2 (0-6")	Soluble	Solid	300.0	96513
880-51419-8	S-2 (1.5')	Soluble	Solid	300.0	96513
880-51419-9	S-3 (0-6")	Soluble	Solid	300.0	96513
880-51419-11	S-3 (2')	Soluble	Solid	300.0	96513
880-51419-12	S-4 (0-6")	Soluble	Solid	300.0	96513
880-51419-14	S-4 (1.5')	Soluble	Solid	300.0	96513
880-51419-15	S-5 (0-6")	Soluble	Solid	300.0	96513
880-51419-18	S-5 (3')	Soluble	Solid	300.0	96513
880-51419-19	S-6 (0-6")	Soluble	Solid	300.0	96513
880-51419-23	S-6 (4')	Soluble	Solid	300.0	96513
880-51419-24	S-7 (0-6")	Soluble	Solid	300.0	96513
880-51419-26	S-7 (2')	Soluble	Solid	300.0	96513
880-51419-27	S-8 (0-6")	Soluble	Solid	300.0	96513
880-51419-29	S-8 (2')	Soluble	Solid	300.0	96513
880-51419-30	S-9 (0-6")	Soluble	Solid	300.0	96513
880-51419-32	S-9 (2')	Soluble	Solid	300.0	96513
880-51419-33	S-10 (0-6")	Soluble	Solid	300.0	96513
880-51419-35	S-10 (2')	Soluble	Solid	300.0	96513
880-51419-36	S-11 (0-6")	Soluble	Solid	300.0	96513
MB 880-96513/1-A	Method Blank	Soluble	Solid	300.0	96513
LCS 880-96513/2-A	Lab Control Sample	Soluble	Solid	300.0	96513
LCSD 880-96513/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	96513
880-51419-1 MS	S-1 (0-6")	Soluble	Solid	300.0	96513
880-51419-1 MSD	S-1 (0-6")	Soluble	Solid	300.0	96513
880-51419-23 MS	S-6 (4')	Soluble	Solid	300.0	96513
880-51419-23 MSD	S-6 (4')	Soluble	Solid	300.0	96513

Analysis Batch: 96535

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51419-38	S-11 (2')	Soluble	Solid	300.0	96515
880-51419-39	S-12 (0-6")	Soluble	Solid	300.0	96515
880-51419-41	S-12 (2')	Soluble	Solid	300.0	96515
880-51419-42	S-14 (0-6")	Soluble	Solid	300.0	96515
880-51419-44	S-14 (1.5')	Soluble	Solid	300.0	96515
880-51419-45	S-15 (0-6")	Soluble	Solid	300.0	96515

QC Association Summary

Client: Crain Environmental
Project/Site: Bagley #4 SWD

Job ID: 880-51419-1
SDG: Lea County NM

HPLC/IC (Continued)

Analysis Batch: 96535 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51419-47	S-15 (2')	Soluble	Solid	300.0	96515
880-51419-48	S-16 (0-6")	Soluble	Solid	300.0	96515
880-51419-50	S-16 (1.5')	Soluble	Solid	300.0	96515
880-51419-51	S-17 (0-6")	Soluble	Solid	300.0	96515
880-51419-53	S-17 (1.5')	Soluble	Solid	300.0	96515
880-51419-54	S-13 (0-6")	Soluble	Solid	300.0	96515
880-51419-56	S-13 (2')	Soluble	Solid	300.0	96515
880-51419-57	S-18 (0-6")	Soluble	Solid	300.0	96515
880-51419-59	S-18 (1.5')	Soluble	Solid	300.0	96515
880-51419-60	S-19 (0-6")	Soluble	Solid	300.0	96515
880-51419-62	S-19 (2')	Soluble	Solid	300.0	96515
880-51419-63	S-20 (0-6")	Soluble	Solid	300.0	96515
880-51419-67	S-20 (4.1')	Soluble	Solid	300.0	96515
880-51419-68	S-21 (0-6")	Soluble	Solid	300.0	96515
MB 880-96515/1-A	Method Blank	Soluble	Solid	300.0	96515
LCS 880-96515/2-A	Lab Control Sample	Soluble	Solid	300.0	96515
LCSD 880-96515/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	96515
880-51419-38 MS	S-11 (2')	Soluble	Solid	300.0	96515
880-51419-38 MSD	S-11 (2')	Soluble	Solid	300.0	96515
880-51419-53 MS	S-17 (1.5')	Soluble	Solid	300.0	96515
880-51419-53 MSD	S-17 (1.5')	Soluble	Solid	300.0	96515

Analysis Batch: 96541

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51419-70	S-21 (2')	Soluble	Solid	300.0	96516
MB 880-96516/1-A	Method Blank	Soluble	Solid	300.0	96516
LCS 880-96516/2-A	Lab Control Sample	Soluble	Solid	300.0	96516
LCSD 880-96516/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	96516
880-51419-70 MS	S-21 (2')	Soluble	Solid	300.0	96516
880-51419-70 MSD	S-21 (2')	Soluble	Solid	300.0	96516

Analysis Batch: 96559

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51419-5	S-1 (4.1')	Soluble	Solid	300.0	96517
MB 880-96517/1-A	Method Blank	Soluble	Solid	300.0	96517
LCS 880-96517/2-A	Lab Control Sample	Soluble	Solid	300.0	96517
LCSD 880-96517/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	96517
880-51419-5 MS	S-1 (4.1')	Soluble	Solid	300.0	96517
880-51419-5 MSD	S-1 (4.1')	Soluble	Solid	300.0	96517

Lab Chronicle

Client: Crain Environmental
Project/Site: Bagley #4 SWD

Job ID: 880-51419-1
SDG: Lea County NM

Client Sample ID: S-1 (0-6")

Lab Sample ID: 880-51419-1
Date Collected: 11/20/24 09:00
Matrix: Solid
Date Received: 11/22/24 11:58

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	96445	11/23/24 17:04	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	96438	11/23/24 21:07	EL	EET MID
Total/NA	Analysis	Total BTEX		1			96539	11/23/24 21:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			96567	11/26/24 02:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	96410	11/22/24 15:56	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	96451	11/26/24 02:16	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	96513	11/25/24 11:12	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	96520	11/25/24 22:33	SMC	EET MID

Client Sample ID: S-1 (4.1')

Lab Sample ID: 880-51419-5
Date Collected: 11/20/24 09:20
Matrix: Solid
Date Received: 11/22/24 11:58

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	96521	11/25/24 12:14	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	96471	11/25/24 14:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			96539	11/25/24 14:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			96567	11/26/24 11:42	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	96467	11/25/24 08:25	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	96624	11/26/24 11:42	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	96517	11/25/24 11:24	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	96559	11/26/24 07:39	SMC	EET MID

Client Sample ID: S-2 (0-6")

Lab Sample ID: 880-51419-6
Date Collected: 11/20/24 09:25
Matrix: Solid
Date Received: 11/22/24 11:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	96445	11/23/24 17:04	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	96438	11/23/24 21:27	EL	EET MID
Total/NA	Analysis	Total BTEX		1			96539	11/23/24 21:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			96567	11/26/24 02:32	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	96410	11/22/24 15:56	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	96451	11/26/24 02:32	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	96513	11/25/24 11:12	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	96520	11/25/24 22:57	SMC	EET MID

Client Sample ID: S-2 (1.5')

Lab Sample ID: 880-51419-8
Date Collected: 11/20/24 09:35
Matrix: Solid
Date Received: 11/22/24 11:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	96445	11/23/24 17:04	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	96438	11/23/24 21:48	EL	EET MID
Total/NA	Analysis	Total BTEX		1			96539	11/23/24 21:48	SM	EET MID

Lab Chronicle

Client: Crain Environmental
Project/Site: Bagley #4 SWD

Job ID: 880-51419-1
SDG: Lea County NM

Client Sample ID: S-2 (1.5')

Lab Sample ID: 880-51419-8
Date Collected: 11/20/24 09:35
Matrix: Solid
Date Received: 11/22/24 11:58

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			96567	11/26/24 02:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	96410	11/22/24 15:56	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	96451	11/26/24 02:47	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	96513	11/25/24 11:12	SA	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	96520	11/25/24 23:05	SMC	EET MID

Client Sample ID: S-3 (0-6")

Lab Sample ID: 880-51419-9
Date Collected: 11/20/24 09:40
Matrix: Solid
Date Received: 11/22/24 11:58

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	96445	11/23/24 17:04	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	96438	11/23/24 22:08	EL	EET MID
Total/NA	Analysis	Total BTEX		1			96539	11/23/24 22:08	SM	EET MID
Total/NA	Analysis	8015 NM		1			96567	11/26/24 03:04	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	96410	11/22/24 15:56	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	96451	11/26/24 03:04	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	96513	11/25/24 11:12	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	96520	11/25/24 23:13	SMC	EET MID

Client Sample ID: S-3 (2')

Lab Sample ID: 880-51419-11
Date Collected: 11/20/24 09:50
Matrix: Solid
Date Received: 11/22/24 11:58

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	96445	11/23/24 17:04	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	96438	11/23/24 22:28	EL	EET MID
Total/NA	Analysis	Total BTEX		1			96539	11/23/24 22:28	SM	EET MID
Total/NA	Analysis	8015 NM		1			96567	11/26/24 03:19	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	96410	11/22/24 15:56	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	96451	11/26/24 03:19	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	96513	11/25/24 11:12	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	96520	11/25/24 23:22	SMC	EET MID

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

Lab Sample ID: 880-51419-12
Date Collected: 11/20/24 10:10
Matrix: Solid
Date Received: 11/22/24 11:58

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	96445	11/23/24 17:04	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	96438	11/23/24 22:49	EL	EET MID
Total/NA	Analysis	Total BTEX		1			96539	11/23/24 22:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			96567	11/26/24 03:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	96410	11/22/24 15:56	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	96451	11/26/24 03:35	TKC	EET MID

Lab Chronicle

Client: Crain Environmental
Project/Site: Bagley #4 SWD

Job ID: 880-51419-1
SDG: Lea County NM

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

Lab Sample ID: 880-51419-12
Date Collected: 11/20/24 10:10
Matrix: Solid
Date Received: 11/22/24 11:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	96513	11/25/24 11:12	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	96520	11/25/24 23:46	SMC	EET MID

Client Sample ID: S-4 (1.5')

Lab Sample ID: 880-51419-14
Date Collected: 11/20/24 10:20
Matrix: Solid
Date Received: 11/22/24 11:58

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	96445	11/23/24 17:04	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	96438	11/23/24 23:09	EL	EET MID
Total/NA	Analysis	Total BTEX		1			96539	11/23/24 23:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			96567	11/26/24 03:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	96410	11/22/24 15:56	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	96451	11/26/24 03:51	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	96513	11/25/24 11:12	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	96520	11/25/24 23:54	SMC	EET MID

Client Sample ID: S-5 (0-6")

Lab Sample ID: 880-51419-15
Date Collected: 11/20/24 11:05
Matrix: Solid
Date Received: 11/22/24 11:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	96445	11/23/24 17:04	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	96438	11/23/24 23:30	EL	EET MID
Total/NA	Analysis	Total BTEX		1			96539	11/23/24 23:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			96567	11/26/24 04:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	96410	11/22/24 15:56	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	96451	11/26/24 04:06	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	96513	11/25/24 11:12	SA	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	96520	11/26/24 00:02	SMC	EET MID

Client Sample ID: S-5 (3')

Lab Sample ID: 880-51419-18
Date Collected: 11/20/24 11:20
Matrix: Solid
Date Received: 11/22/24 11:58

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	96445	11/23/24 17:04	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	96438	11/23/24 23:50	EL	EET MID
Total/NA	Analysis	Total BTEX		1			96539	11/23/24 23:50	SM	EET MID
Total/NA	Analysis	8015 NM		1			96567	11/26/24 04:37	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	96410	11/22/24 15:56	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	96451	11/26/24 04:37	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	96513	11/25/24 11:12	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	96520	11/26/24 00:10	SMC	EET MID

Lab Chronicle

Client: Crain Environmental
Project/Site: Bagley #4 SWD

Job ID: 880-51419-1
SDG: Lea County NM

Client Sample ID: S-6 (0-6")

Lab Sample ID: 880-51419-19
Date Collected: 11/20/24 11:25
Matrix: Solid
Date Received: 11/22/24 11:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	96445	11/23/24 17:04	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	96438	11/24/24 00:11	EL	EET MID
Total/NA	Analysis	Total BTEX		1			96539	11/24/24 00:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			96567	11/26/24 04:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	96410	11/22/24 15:56	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	96451	11/26/24 04:53	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	96513	11/25/24 11:12	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	96520	11/26/24 00:19	SMC	EET MID

Client Sample ID: S-6 (4')

Lab Sample ID: 880-51419-23
Date Collected: 11/20/24 11:45
Matrix: Solid
Date Received: 11/22/24 11:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	96445	11/23/24 17:04	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	96438	11/24/24 01:34	EL	EET MID
Total/NA	Analysis	Total BTEX		1			96539	11/24/24 01:34	SM	EET MID
Total/NA	Analysis	8015 NM		1			96567	11/26/24 05:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	96410	11/22/24 15:56	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	96451	11/26/24 05:09	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	96513	11/25/24 11:12	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	96520	11/26/24 00:27	SMC	EET MID

Client Sample ID: S-7 (0-6")

Lab Sample ID: 880-51419-24
Date Collected: 11/20/24 11:50
Matrix: Solid
Date Received: 11/22/24 11:58

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	96445	11/23/24 17:04	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	96438	11/24/24 01:54	EL	EET MID
Total/NA	Analysis	Total BTEX		1			96539	11/24/24 01:54	SM	EET MID
Total/NA	Analysis	8015 NM		1			96567	11/26/24 05:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	96410	11/22/24 15:56	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	96451	11/26/24 05:24	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	96513	11/25/24 11:12	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	96520	11/26/24 00:51	SMC	EET MID

Client Sample ID: S-7 (2')

Lab Sample ID: 880-51419-26
Date Collected: 11/20/24 12:00
Matrix: Solid
Date Received: 11/22/24 11:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	96445	11/23/24 17:04	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	96438	11/24/24 02:15	EL	EET MID
Total/NA	Analysis	Total BTEX		1			96539	11/24/24 02:15	SM	EET MID

Lab Chronicle

Client: Crain Environmental
Project/Site: Bagley #4 SWD

Job ID: 880-51419-1
SDG: Lea County NM

Client Sample ID: S-7 (2')
Date Collected: 11/20/24 12:00
Date Received: 11/22/24 11:58

Lab Sample ID: 880-51419-26
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			96567	11/26/24 05:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	96410	11/22/24 15:56	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	96451	11/26/24 05:40	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	96513	11/25/24 11:12	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	96520	11/26/24 00:59	SMC	EET MID

Client Sample ID: S-8 (0-6")
Date Collected: 11/20/24 12:05
Date Received: 11/22/24 11:58

Lab Sample ID: 880-51419-27
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			4.96 g	5 mL	96445	11/23/24 17:04	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	96438	11/24/24 02:35	EL	EET MID
Total/NA	Analysis	Total BTEX		1			96539	11/24/24 02:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			96567	11/26/24 05:56	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	96410	11/22/24 15:56	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	96451	11/26/24 05:56	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	96513	11/25/24 11:12	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	96520	11/26/24 01:24	SMC	EET MID

Client Sample ID: S-8 (2')
Date Collected: 11/20/24 12:15
Date Received: 11/22/24 11:58

Lab Sample ID: 880-51419-29
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	96445	11/23/24 17:04	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	96438	11/24/24 02:56	EL	EET MID
Total/NA	Analysis	Total BTEX		1			96539	11/24/24 02:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			96567	11/26/24 06:12	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	96410	11/22/24 15:56	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	96451	11/26/24 06:12	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	96513	11/25/24 11:12	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	96520	11/26/24 01:32	SMC	EET MID

Client Sample ID: S-9 (0-6")
Date Collected: 11/20/24 12:20
Date Received: 11/22/24 11:58

Lab Sample ID: 880-51419-30
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	96445	11/23/24 17:04	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	96438	11/24/24 03:16	EL	EET MID
Total/NA	Analysis	Total BTEX		1			96539	11/24/24 03:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			96567	11/26/24 06:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	96410	11/22/24 15:56	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	96451	11/26/24 06:27	TKC	EET MID

Lab Chronicle

Client: Crain Environmental
Project/Site: Bagley #4 SWD

Job ID: 880-51419-1
SDG: Lea County NM

Client Sample ID: S-9 (0-6")

Lab Sample ID: 880-51419-30
Date Collected: 11/20/24 12:20
Matrix: Solid
Date Received: 11/22/24 11:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	96513	11/25/24 11:12	SA	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	96520	11/26/24 01:40	SMC	EET MID

Client Sample ID: S-9 (2')

Lab Sample ID: 880-51419-32
Date Collected: 11/20/24 12:30
Matrix: Solid
Date Received: 11/22/24 11:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	96445	11/23/24 17:04	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	96438	11/24/24 03:37	EL	EET MID
Total/NA	Analysis	Total BTEX		1			96539	11/24/24 03:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			96567	11/26/24 06:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	96410	11/22/24 15:56	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	96451	11/26/24 06:43	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	96513	11/25/24 11:12	SA	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	96520	11/26/24 01:48	SMC	EET MID

Client Sample ID: S-10 (0-6")

Lab Sample ID: 880-51419-33
Date Collected: 11/20/24 12:35
Matrix: Solid
Date Received: 11/22/24 11:58

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	96445	11/23/24 17:04	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	96438	11/24/24 03:57	EL	EET MID
Total/NA	Analysis	Total BTEX		1			96539	11/24/24 03:57	SM	EET MID
Total/NA	Analysis	8015 NM		1			96567	11/26/24 06:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	96410	11/22/24 15:56	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	96451	11/26/24 06:59	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	96513	11/25/24 11:12	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	96520	11/26/24 01:56	SMC	EET MID

Client Sample ID: S-10 (2')

Lab Sample ID: 880-51419-35
Date Collected: 11/20/24 12:45
Matrix: Solid
Date Received: 11/22/24 11:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	96445	11/23/24 17:04	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	96438	11/24/24 04:18	EL	EET MID
Total/NA	Analysis	Total BTEX		1			96539	11/24/24 04:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			96567	11/26/24 10:54	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	96411	11/22/24 15:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	96626	11/26/24 10:54	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	96513	11/25/24 11:12	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	96520	11/26/24 02:04	SMC	EET MID

Lab Chronicle

Client: Crain Environmental
Project/Site: Bagley #4 SWD

Job ID: 880-51419-1
SDG: Lea County NM

Client Sample ID: S-11 (0-6")

Lab Sample ID: 880-51419-36
Date Collected: 11/20/24 12:50
Matrix: Solid
Date Received: 11/22/24 11:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	96445	11/23/24 17:04	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	96438	11/24/24 04:38	EL	EET MID
Total/NA	Analysis	Total BTEX		1			96539	11/24/24 04:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			96567	11/26/24 11:42	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	96411	11/22/24 15:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	96626	11/26/24 11:42	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	96513	11/25/24 11:12	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	96520	11/26/24 02:12	SMC	EET MID

Client Sample ID: S-11 (2')

Lab Sample ID: 880-51419-38
Date Collected: 11/20/24 13:00
Matrix: Solid
Date Received: 11/22/24 11:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	96446	11/23/24 17:07	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	96441	11/24/24 07:26	EL	EET MID
Total/NA	Analysis	Total BTEX		1			96539	11/24/24 07:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			96567	11/26/24 11:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	96411	11/22/24 15:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	96626	11/26/24 11:58	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	96515	11/25/24 11:18	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	96535	11/25/24 22:17	SMC	EET MID

Client Sample ID: S-12 (0-6")

Lab Sample ID: 880-51419-39
Date Collected: 11/20/24 13:05
Matrix: Solid
Date Received: 11/22/24 11:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	96446	11/23/24 17:07	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	96441	11/24/24 07:47	EL	EET MID
Total/NA	Analysis	Total BTEX		1			96539	11/24/24 07:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			96567	11/26/24 12:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	96411	11/22/24 15:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	96626	11/26/24 12:14	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	96515	11/25/24 11:18	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	96535	11/25/24 22:37	SMC	EET MID

Client Sample ID: S-12 (2')

Lab Sample ID: 880-51419-41
Date Collected: 11/20/24 13:15
Matrix: Solid
Date Received: 11/22/24 11:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	96446	11/23/24 17:07	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	96441	11/24/24 08:07	EL	EET MID
Total/NA	Analysis	Total BTEX		1			96539	11/24/24 08:07	SM	EET MID

Lab Chronicle

Client: Crain Environmental
Project/Site: Bagley #4 SWD

Job ID: 880-51419-1
SDG: Lea County NM

Client Sample ID: S-12 (2')

Lab Sample ID: 880-51419-41
Date Collected: 11/20/24 13:15
Matrix: Solid
Date Received: 11/22/24 11:58

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			96567	11/26/24 12:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	96411	11/22/24 15:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	96626	11/26/24 12:30	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	96515	11/25/24 11:18	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	96535	11/25/24 22:44	SMC	EET MID

Client Sample ID: S-14 (0-6")

Lab Sample ID: 880-51419-42
Date Collected: 11/20/24 13:20
Matrix: Solid
Date Received: 11/22/24 11:58

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	96446	11/23/24 17:07	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	96441	11/24/24 08:28	EL	EET MID
Total/NA	Analysis	Total BTEX		1			96539	11/24/24 08:28	SM	EET MID
Total/NA	Analysis	8015 NM		1			96567	11/26/24 12:46	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	96411	11/22/24 15:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	96626	11/26/24 12:46	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	96515	11/25/24 11:18	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	96535	11/25/24 22:50	SMC	EET MID

Client Sample ID: S-14 (1.5')

Lab Sample ID: 880-51419-44
Date Collected: 11/20/24 13:30
Matrix: Solid
Date Received: 11/22/24 11:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	96446	11/23/24 17:07	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	96441	11/24/24 08:48	EL	EET MID
Total/NA	Analysis	Total BTEX		1			96539	11/24/24 08:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			96567	11/26/24 17:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	96411	11/22/24 15:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	96626	11/26/24 17:27	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	96515	11/25/24 11:18	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	96535	11/25/24 22:57	SMC	EET MID

Client Sample ID: S-15 (0-6")

Lab Sample ID: 880-51419-45
Date Collected: 11/20/24 13:35
Matrix: Solid
Date Received: 11/22/24 11:58

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	96446	11/23/24 17:07	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	96441	11/24/24 09:09	EL	EET MID
Total/NA	Analysis	Total BTEX		1			96539	11/24/24 09:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			96567	11/26/24 17:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	96411	11/22/24 15:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	96626	11/26/24 17:43	TKC	EET MID

Lab Chronicle

Client: Crain Environmental
Project/Site: Bagley #4 SWD

Job ID: 880-51419-1
SDG: Lea County NM

Client Sample ID: S-15 (0-6")

Lab Sample ID: 880-51419-45
Matrix: Solid
Date Collected: 11/20/24 13:35
Date Received: 11/22/24 11:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.00 g	50 mL	96515	11/25/24 11:18	SA	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	96535	11/25/24 23:17	SMC	EET MID

Client Sample ID: S-15 (2')

Lab Sample ID: 880-51419-47
Matrix: Solid
Date Collected: 11/20/24 13:45
Date Received: 11/22/24 11:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	96446	11/23/24 17:07	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	96441	11/24/24 09:29	EL	EET MID
Total/NA	Analysis	Total BTEX		1			96539	11/24/24 09:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			96567	11/26/24 17:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	96411	11/22/24 15:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	96626	11/26/24 17:59	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	96515	11/25/24 11:18	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	96535	11/25/24 23:24	SMC	EET MID

Client Sample ID: S-16 (0-6")

Lab Sample ID: 880-51419-48
Matrix: Solid
Date Collected: 11/20/24 13:50
Date Received: 11/22/24 11:58

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	96446	11/23/24 17:07	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	96441	11/24/24 09:50	EL	EET MID
Total/NA	Analysis	Total BTEX		1			96539	11/24/24 09:50	SM	EET MID
Total/NA	Analysis	8015 NM		1			96567	11/26/24 18:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	96411	11/22/24 15:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	96626	11/26/24 18:14	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	96515	11/25/24 11:18	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	96535	11/25/24 23:30	SMC	EET MID

Client Sample ID: S-16 (1.5')

Lab Sample ID: 880-51419-50
Matrix: Solid
Date Collected: 11/20/24 14:00
Date Received: 11/22/24 11:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	96446	11/23/24 17:07	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	96441	11/24/24 10:10	EL	EET MID
Total/NA	Analysis	Total BTEX		1			96539	11/24/24 10:10	SM	EET MID
Total/NA	Analysis	8015 NM		1			96567	11/26/24 18:46	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	96411	11/22/24 15:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	96626	11/26/24 18:46	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	96515	11/25/24 11:18	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	96535	11/25/24 23:37	SMC	EET MID

Lab Chronicle

Client: Crain Environmental
Project/Site: Bagley #4 SWD

Job ID: 880-51419-1
SDG: Lea County NM

Client Sample ID: S-17 (0-6")

Lab Sample ID: 880-51419-51
Date Collected: 11/20/24 14:05
Matrix: Solid
Date Received: 11/22/24 11:58

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	96446	11/23/24 17:07	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	96441	11/24/24 10:31	EL	EET MID
Total/NA	Analysis	Total BTEX		1			96539	11/24/24 10:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			96567	11/26/24 19:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	96411	11/22/24 15:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	96626	11/26/24 19:03	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	96515	11/25/24 11:18	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	96535	11/25/24 23:44	SMC	EET MID

Client Sample ID: S-17 (1.5')

Lab Sample ID: 880-51419-53
Date Collected: 11/20/24 14:15
Matrix: Solid
Date Received: 11/22/24 11:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	96446	11/23/24 17:07	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	96441	11/24/24 12:05	EL	EET MID
Total/NA	Analysis	Total BTEX		1			96539	11/24/24 12:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			96567	11/26/24 19:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	96411	11/22/24 15:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	96626	11/26/24 19:18	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	96515	11/25/24 11:18	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	96535	11/25/24 23:50	SMC	EET MID

Client Sample ID: S-13 (0-6")

Lab Sample ID: 880-51419-54
Date Collected: 11/20/24 14:35
Matrix: Solid
Date Received: 11/22/24 11:58

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	96446	11/23/24 17:07	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	96441	11/24/24 12:26	EL	EET MID
Total/NA	Analysis	Total BTEX		1			96539	11/24/24 12:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			96567	11/26/24 19:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	96411	11/22/24 15:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	96626	11/26/24 19:34	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	96515	11/25/24 11:18	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	96535	11/26/24 00:10	SMC	EET MID

Client Sample ID: S-13 (2')

Lab Sample ID: 880-51419-56
Date Collected: 11/20/24 14:45
Matrix: Solid
Date Received: 11/22/24 11:58

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	96446	11/23/24 17:07	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	96441	11/24/24 12:46	EL	EET MID
Total/NA	Analysis	Total BTEX		1			96539	11/24/24 12:46	SM	EET MID

Lab Chronicle

Client: Crain Environmental
Project/Site: Bagley #4 SWD

Job ID: 880-51419-1
SDG: Lea County NM

Client Sample ID: S-13 (2')

Lab Sample ID: 880-51419-56
Date Collected: 11/20/24 14:45
Matrix: Solid
Date Received: 11/22/24 11:58

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			96567	11/26/24 19:49	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	96411	11/22/24 15:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	96626	11/26/24 19:49	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	96515	11/25/24 11:18	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	96535	11/26/24 00:17	SMC	EET MID

Client Sample ID: S-18 (0-6")

Lab Sample ID: 880-51419-57
Date Collected: 11/20/24 14:50
Matrix: Solid
Date Received: 11/22/24 11:58

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	96446	11/23/24 17:07	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	96441	11/24/24 13:07	EL	EET MID
Total/NA	Analysis	Total BTEX		1			96539	11/24/24 13:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			96567	11/26/24 20:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	96411	11/22/24 15:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	96626	11/26/24 20:06	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	96515	11/25/24 11:18	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	96535	11/26/24 00:37	SMC	EET MID

Client Sample ID: S-18 (1.5')

Lab Sample ID: 880-51419-59
Date Collected: 11/20/24 15:00
Matrix: Solid
Date Received: 11/22/24 11:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	96446	11/23/24 17:07	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	96441	11/24/24 13:27	EL	EET MID
Total/NA	Analysis	Total BTEX		1			96539	11/24/24 13:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			96567	11/26/24 20:21	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	96411	11/22/24 15:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	96626	11/26/24 20:21	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	96515	11/25/24 11:18	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	96535	11/26/24 00:44	SMC	EET MID

Client Sample ID: S-19 (0-6")

Lab Sample ID: 880-51419-60
Date Collected: 11/20/24 15:05
Matrix: Solid
Date Received: 11/22/24 11:58

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	96446	11/23/24 17:07	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	96441	11/24/24 13:48	EL	EET MID
Total/NA	Analysis	Total BTEX		1			96539	11/24/24 13:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			96567	11/26/24 20:37	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	96411	11/22/24 15:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	96626	11/26/24 20:37	TKC	EET MID

Lab Chronicle

Client: Crain Environmental
Project/Site: Bagley #4 SWD

Job ID: 880-51419-1
SDG: Lea County NM

Client Sample ID: S-19 (0-6")

Lab Sample ID: 880-51419-60
Date Collected: 11/20/24 15:05
Matrix: Solid
Date Received: 11/22/24 11:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	96515	11/25/24 11:18	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	96535	11/26/24 00:50	SMC	EET MID

Client Sample ID: S-19 (2')

Lab Sample ID: 880-51419-62
Date Collected: 11/20/24 15:15
Matrix: Solid
Date Received: 11/22/24 11:58

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	96446	11/23/24 17:07	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	96441	11/24/24 14:08	EL	EET MID
Total/NA	Analysis	Total BTEX		1			96539	11/24/24 14:08	SM	EET MID
Total/NA	Analysis	8015 NM		1			96567	11/26/24 20:52	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	96411	11/22/24 15:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	96626	11/26/24 20:52	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	96515	11/25/24 11:18	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	96535	11/26/24 00:57	SMC	EET MID

Client Sample ID: S-20 (0-6")

Lab Sample ID: 880-51419-63
Date Collected: 11/20/24 15:20
Matrix: Solid
Date Received: 11/22/24 11:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	96446	11/23/24 17:07	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	96441	11/24/24 14:29	EL	EET MID
Total/NA	Analysis	Total BTEX		1			96539	11/24/24 14:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			96567	11/26/24 21:08	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	96411	11/22/24 15:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	96626	11/26/24 21:08	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	96515	11/25/24 11:18	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	96535	11/26/24 01:04	SMC	EET MID

Client Sample ID: S-20 (4.1')

Lab Sample ID: 880-51419-67
Date Collected: 11/20/24 15:40
Matrix: Solid
Date Received: 11/22/24 11:58

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	96446	11/23/24 17:07	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	96441	11/24/24 14:49	EL	EET MID
Total/NA	Analysis	Total BTEX		1			96539	11/24/24 14:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			96567	11/25/24 13:49	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	96419	11/22/24 16:33	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	96493	11/25/24 13:49	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	96515	11/25/24 11:18	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	96535	11/26/24 01:10	SMC	EET MID

Lab Chronicle

Client: Crain Environmental
Project/Site: Bagley #4 SWD

Job ID: 880-51419-1
SDG: Lea County NM

Client Sample ID: S-21 (0-6")

Lab Sample ID: 880-51419-68
Date Collected: 11/20/24 15:50
Matrix: Solid
Date Received: 11/22/24 11:58

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	96446	11/23/24 17:07	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	96441	11/24/24 15:10	EL	EET MID
Total/NA	Analysis	Total BTEX		1			96539	11/24/24 15:10	SM	EET MID
Total/NA	Analysis	8015 NM		1			96567	11/25/24 17:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	96419	11/22/24 16:33	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	96493	11/25/24 17:06	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	96515	11/25/24 11:18	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	96535	11/26/24 01:17	SMC	EET MID

Client Sample ID: S-21 (2')

Lab Sample ID: 880-51419-70
Date Collected: 11/20/24 16:00
Matrix: Solid
Date Received: 11/22/24 11:58

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	96418	11/22/24 16:19	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	96439	11/24/24 14:36	EL	EET MID
Total/NA	Analysis	Total BTEX		1			96539	11/24/24 14:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			96567	11/26/24 11:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	96467	11/25/24 08:25	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	96624	11/26/24 11:58	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	96516	11/25/24 11:22	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	96541	11/26/24 03:18	SMC	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Crain Environmental
Project/Site: Bagley #4 SWD

Job ID: 880-51419-1
SDG: Lea County NM

Laboratory: Eurofins Midland

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

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

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

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

Method Summary

Client: Crain Environmental
Project/Site: Bagley #4 SWD

Job ID: 880-51419-1
SDG: Lea County 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

Job ID: 880-51419-1
SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-51419-1	S-1 (0-6")	Solid	11/20/24 09:00	11/22/24 11:58	0-6"
880-51419-5	S-1 (4.1')	Solid	11/20/24 09:20	11/22/24 11:58	4.1'
880-51419-6	S-2 (0-6")	Solid	11/20/24 09:25	11/22/24 11:58	0-6"
880-51419-8	S-2 (1.5')	Solid	11/20/24 09:35	11/22/24 11:58	1.5'
880-51419-9	S-3 (0-6")	Solid	11/20/24 09:40	11/22/24 11:58	0-6"
880-51419-11	S-3 (2')	Solid	11/20/24 09:50	11/22/24 11:58	2'
880-51419-12	S-4 (0-6")	Solid	11/20/24 10:10	11/22/24 11:58	0-6"
880-51419-14	S-4 (1.5')	Solid	11/20/24 10:20	11/22/24 11:58	1.5'
880-51419-15	S-5 (0-6")	Solid	11/20/24 11:05	11/22/24 11:58	0-6"
880-51419-18	S-5 (3')	Solid	11/20/24 11:20	11/22/24 11:58	3'
880-51419-19	S-6 (0-6")	Solid	11/20/24 11:25	11/22/24 11:58	0-6"
880-51419-23	S-6 (4')	Solid	11/20/24 11:45	11/22/24 11:58	4.1'
880-51419-24	S-7 (0-6")	Solid	11/20/24 11:50	11/22/24 11:58	0-6"
880-51419-26	S-7 (2')	Solid	11/20/24 12:00	11/22/24 11:58	2'
880-51419-27	S-8 (0-6")	Solid	11/20/24 12:05	11/22/24 11:58	0-6"
880-51419-29	S-8 (2')	Solid	11/20/24 12:15	11/22/24 11:58	2'
880-51419-30	S-9 (0-6")	Solid	11/20/24 12:20	11/22/24 11:58	0-6"
880-51419-32	S-9 (2')	Solid	11/20/24 12:30	11/22/24 11:58	2'
880-51419-33	S-10 (0-6")	Solid	11/20/24 12:35	11/22/24 11:58	0-6"
880-51419-35	S-10 (2')	Solid	11/20/24 12:45	11/22/24 11:58	2'
880-51419-36	S-11 (0-6")	Solid	11/20/24 12:50	11/22/24 11:58	0-6"
880-51419-38	S-11 (2')	Solid	11/20/24 13:00	11/22/24 11:58	2'
880-51419-39	S-12 (0-6")	Solid	11/20/24 13:05	11/22/24 11:58	0-6"
880-51419-41	S-12 (2')	Solid	11/20/24 13:15	11/22/24 11:58	2'
880-51419-42	S-14 (0-6")	Solid	11/20/24 13:20	11/22/24 11:58	0-6"
880-51419-44	S-14 (1.5')	Solid	11/20/24 13:30	11/22/24 11:58	1.5'
880-51419-45	S-15 (0-6")	Solid	11/20/24 13:35	11/22/24 11:58	0-6"
880-51419-47	S-15 (2')	Solid	11/20/24 13:45	11/22/24 11:58	2'
880-51419-48	S-16 (0-6")	Solid	11/20/24 13:50	11/22/24 11:58	0-6"
880-51419-50	S-16 (1.5')	Solid	11/20/24 14:00	11/22/24 11:58	1.5'
880-51419-51	S-17 (0-6")	Solid	11/20/24 14:05	11/22/24 11:58	0-6"
880-51419-53	S-17 (1.5')	Solid	11/20/24 14:15	11/22/24 11:58	1.5'
880-51419-54	S-13 (0-6")	Solid	11/20/24 14:35	11/22/24 11:58	0-6"
880-51419-56	S-13 (2')	Solid	11/20/24 14:45	11/22/24 11:58	2'
880-51419-57	S-18 (0-6")	Solid	11/20/24 14:50	11/22/24 11:58	0-6"
880-51419-59	S-18 (1.5')	Solid	11/20/24 15:00	11/22/24 11:58	1.5'
880-51419-60	S-19 (0-6")	Solid	11/20/24 15:05	11/22/24 11:58	0-6"
880-51419-62	S-19 (2')	Solid	11/20/24 15:15	11/22/24 11:58	2'
880-51419-63	S-20 (0-6")	Solid	11/20/24 15:20	11/22/24 11:58	0-6"
880-51419-67	S-20 (4.1')	Solid	11/20/24 15:40	11/22/24 11:58	4.1'
880-51419-68	S-21 (0-6")	Solid	11/20/24 15:50	11/22/24 11:58	0-6"
880-51419-70	S-21 (2')	Solid	11/20/24 16:00	11/22/24 11:58	2'

Released to Imaging: 5/6/2025 3:16:00 PM

Received by OCD: 4/27/2025 2:30:52 PM

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Chain of Custody

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

880-51419 Chain of Custody

www.xenco.com Page 1 of 7

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

Work Order Comments

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

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

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Samples Received Intact:	(Yes) No	Thermometer ID:	~~IR 4~~ IR 18
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	0.1
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	3.6
Total Containers:	70	Corrected Temperature:	3.5

Preservative Codes

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

ANALYSIS REQUEST — Parameters

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	TPH 8015M	BTEX	Chlorides	HOLD	Sample Comments
S-1 (0-6")	S	11/20/24	0900	0-6"	C	1	X	X	X		
S-1 (1')	↓	↓	0905	1'	↓	↓				X	
S-1 (2')			0910	2'						X	
S-1 (3')			0915	3'						X	
S-1 (4.1')			0920	4.1'			X	X	X	X	
S-2 (0-6")			0925	0-6"			X	X	X		
S-2 (1')			0930	1'						X	
S-2 (1.5')			0935	1.5'			X	X	X		
S-3 (0-6")			0940	0-6"			X	X	X		
S-3 (1')	↓	↓	0945	1'	↓	↓				X	

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

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Cindy Crain	Teddy Rundell Lee	11/22/24 11:58			
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Released to Imaging: 5/6/2025 3:16:00 PM

Received by OCD: 4/27/2025 2:30:52 PM

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Chain of Custody

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

Work Order No: _____

www.xenco.com Page 2 of 7

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

Work Order Comments

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

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

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	IR-8
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.1
Sample Custody Seals:	Yes No N/A	Temperature Reading:	3.6
Total Containers:	7	Corrected Temperature:	3.5

Preservative Codes

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

ANALYSIS REQUEST — Parameters

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	TPH	BTEX	Chlorides	HOLD	Sample Comments
S-3 (2')	S	11/20/24	0950	2'	C	1	X	X	X		
S-4 (0-6")	↓	↓	1010	0-6"	↓	↓	X	X	X		
S-4 (1')			1015	1'						X	
S-4 (1.5')			1020	1.5'			X	X	X		
S-5 (0-6")			1105	0-6"			X	X	X		
S-5 (1')			1110	1'						X	
S-5 (2')			1115	2'						X	
S-5 (3')			1120	3'			X	X	X		
S-6 (0-6")			1125	0-6"			X	X	X		
S-6 (1')			1130	1'						X	

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

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Cindy Crain	Teddy Rundell Lee	11/22/24 11:58	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Released to Imaging: 5/6/2025 3:16:00 PM

Received by OCD: 4/27/2025 2:30:52 PM

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Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 3 of 7

Project Manager:	Cindy Crain	Bill to: (if different)	Nicole Cornwell
Company Name:	Crain Environmental	Company Name:	BXP
Address:	2925 E. 17th St.	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

Work Order Comments

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

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

SAMPLE RECEIPT	Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:		IR-8
Cooler Custody Seals:	Yes No N/A	Correction Factor:		-0.1
Sample Custody Seals:	Yes No N/A	Temperature Reading:		3.6
Total Containers:		Corrected Temperature:		3.5

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2SO_4: H_2; NaOH: Na; H_3PO_4: HP; NaHSO$_4$: NABIS; $Na_2S_2O_3$: NaSO$_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	TPH 8015M	BTEX	Chlorides	HOLD	Sample Comments
S-6 (2')	S	11/20/24	1135	2'	C	1				X	
S-6 (3')	↓	↓	1140	3'	↓	↓				X	
S-6 (4.1')			1145	4.1'			X	X	X		
S-7 (0-6")			1150	0-6"			X	X	X		
S-7 (1')			1155	1'						X	
S-7 (2')			1200	2'			X	X	X		
S-8 (0-6")			1205	0-6"			X	X	X		
S-8 (1')			1210	1'						X	
S-8 (2')			1215	2'			X	X	X		
S-9 (0-6")			1220	0-6"			X	X	X		

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

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1 Cindy Crain	Teddy Randell Lee	11/22/24 11:58			
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

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Work Order No: _____

www.xenco.com Page 4 of 7

Project Manager:	Cindy Crain	Bill to: (if different)	Nicole Cornwell
Company Name:	Crain Environmental	Company Name:	BXP
Address:	2925 E. 17th St.	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

Work Order Comments

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

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

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	IR-8
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.1
Sample Custody Seals:	Yes No N/A	Temperature Reading:	3.6
Total Containers:	70	Corrected Temperature:	3.5

Preservative Codes

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

ANALYSIS REQUEST — Parameters: TPH 8015M; BTEX; Chlorides; HOLD

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	TPH 8015M	BTEX	Chlorides	HOLD	Sample Comments
S-9 (1')	S	11/20/24	1225	1'	C	1				X	
S-9 (2')	↓	↓	1230	2'	↓	↓	X	X	X		
S-10 (0-6")	↓	↓	1235	0-6"	↓	↓	X	X	X		
S-10 (1')	↓	↓	1240	1'	↓	↓				X	
S-10 (2')	↓	↓	1245	2'	↓	↓	X	X	X		
S-11 (0-6")	↓	↓	1250	0-6"	↓	↓	X	X	X		
S-11 (1')	↓	↓	1255	1'	↓	↓				X	
S-11 (2')	↓	↓	1300	2'	↓	↓	X	X	X		
S-12 (0-6")	↓	↓	1305	0-6"	↓	↓	X	X	X		
S-12 (1')	↓	↓	1310	1'	↓	↓				X	

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

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Cindy Crain	Teddy Rashell Lee	11/22/24 11:58			
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

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Work Order No: _____

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Project Manager:	Cindy Crain	Bill to: (if different)	Nicole Cornwell
Company Name:	Crain Environmental	Company Name:	BXP
Address:	2925 E. 17th St.	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

Work Order Comments

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

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

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Samples Received Intact:	(Yes) No	Thermometer ID:	IR-8
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	0.1
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	3.6
Total Containers:	70	Corrected Temperature:	3.5

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2SO_4: H_2; NaOH: Na; H_3PO_4: HP; NaHSO$_4$: NABIS; $Na_2S_2O_3$: NaSO$_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

ANALYSIS REQUEST — Parameters

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	TPH 8015M	BTEX	Chlorides	HOLD	Sample Comments
S-12 (2')	S	11/20/24	1315	2'	C	1	X	X	X		
S-14 (0-6")	↓	↓	1320	0-6"	↓	↓	X	X	X		
S-14 (1')	↓	↓	1325	1'	↓	↓				X	
S-14 (1.5')	↓	↓	1330	1.5'	↓	↓	X	X	X		
S-15 (0-6")	↓	↓	1335	0-6"	↓	↓	X	X	X		
S-15 (1')	↓	↓	1340	1'	↓	↓				X	
S-15 (2')	↓	↓	1345	2'	↓	↓	X	X	X		
S-16 (0-6")	↓	↓	1350	0-6"	↓	↓	X	X	X		
S-16 (1')	↓	↓	1355	1'	↓	↓				X	
S-16 (1.5')	↓	↓	1400	1.5'	↓	↓	X	X	X		

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

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Cindy Crain	Teddy Randall Lee	11/22/24 11:58			
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

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Work Order No: _____

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

Work Order Comments

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

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

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	IR-8
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.1
Sample Custody Seals:	Yes No N/A	Temperature Reading:	3.6
Total Containers:	70	Corrected Temperature:	3.5

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2SO_4: H_2; NaOH: Na; H_3PO_4: HP; NaHSO$_4$: NABIS; $Na_2S_2O_3$: NaSO$_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

ANALYSIS REQUEST — Parameters: TPH 8015 M; BTEX; Chlorides; HOLD

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	TPH 8015 M	BTEX	Chlorides	HOLD	Sample Comments
S-17 (0-6")	S	11/20/24	1405	0-6"	C	1	X	X	X		
S-17 (1')	↓	↓	1410	1'	↓	↓				X	
S-17 (1.5')	↓	↓	1415	1.5'	↓	↓	X	X	X		
S-13 (0-6")	↓	↓	1435	0-6"	↓	↓	X	X	X		
S-13 (1')	↓	↓	1440	1'	↓	↓				X	
S-13 (2')	↓	↓	1445	2'	↓	↓	X	X	X		
S-18 (0-6")	↓	↓	1450	0-6"	↓	↓	X	X	X		
S-18 (1')	↓	↓	1455	1'	↓	↓				X	
S-18 (1.5')	↓	↓	1500	1.5'	↓	↓	X	X	X		
S-19 (0-6")	↓	↓	1505	0-6"	↓	↓	X	X	X		

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

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1 Cindy Crain	Teddy Randall Lee	11/22/24 11:58			
3			4		
5			6		

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Work Order No: _____

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

Work Order Comments

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

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

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Samples Received Intact:	(Yes) No	Thermometer ID:	IR-8
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.1
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	3.6
Total Containers:	70	Corrected Temperature:	3.5

Preservative Codes

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

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	TPH 8015M	BTEX	Chlorides	HOLD	Sample Comments
S-19 (1')	S	11/20/24	1510	1'	C	1				X	
S-19 (2')			1515	2'			X	X	X		
S-20 (0-6")			1520	0-6"			X	X	X		
S-20 (1')			1525	1'						X	
S-20 (2')			1530	2'						X	
S-20 (3')			1535	3'						X	
S-20 (4.1')			1540	4.1'			X	X	X		
S-21 (0-6")			1550	0-6"			X	X	X		
S-21 (1')			1555	1'						X	
S-21 (2')			1600	2'			X	X	X		

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

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1 Cindy Crain	Teddy Rankell Lee	11/22/24 11:58			
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Crain Environmental

Job Number: 880-51419-1
SDG Number: Lea County NM

Login Number: 51419
List Number: 1
Creator: Vasquez, Julisa

List Source: Eurofins Midland

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

Appendix C: Photographic Documentation

Photographic Log
BXP Operating, LLC
Bagley SWD #4
November 20, 2024

View of well sign.

View to SW of sample S-1 location.

View of sample S-1 location.

View to S of sample S-2 and S-3 locations.

View to N of sample S-2 and S-3 locations.

View of sample S-4 location.

View to N of sample S-4 location.

View to E of sample S-5 location.

Photographic Log
BXP Operating, LLC
Bagley SWD #4
November 20, 2024

View to N of sample S-6 location.

View to N of sample S-5 and S-6 locations.

View to N of sample S-7, S-8, and S-9 locations.

View to SE of sample S-10, S-11, and S-12 locations.

View to NW of sample S-13 location.

View to E of sample S-14 location.

View to N of sample S-15 location.

View to NE of sample S-16 location.

Photographic Log
BXP Operating, LLC
Bagley SWD #4
November 20, 2024

View to NE of sample S-17 location.

View to S of sample S-18 location.

View to SW of sample S-19 location.

View to W of sample S-20 location.

View to W of sample S-21 location.

Grain Environmental

Appendix D - 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 E - Biological Desktop Review

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

BIRDS

NAME	STATUS
Lesser Prairie-chicken *Tympanuchus pallidicinctus* 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 *Falco femoralis septentrionalis* 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 *Danaus plexippus* 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.

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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 455970

QUESTIONS

Operator: BXP Operating, LLC 11757 KATY FREEWAY HOUSTON, TX 77079	OGRID: 329487
	Action Number: 455970
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nDEV1776**
Incident Name	**NDEV1776 BAGLEY SWD 004 30-025-01015 @ 30-025-01015**
Incident Type	**Produced Water Release**
Incident Status	**Remediation Plan Received**
Incident Well	**[30-025-01015] BAGLEY SWD #004**

Location of Release Source *Please answer all the questions in this group.*	
Site Name	BAGLEY SWD 004 30-025-01015
Date Release Discovered	12/12/1993
Surface Owner	State

Incident Details *Please answer all the questions in this group.*	
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 *Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.*	
Crude Oil Released (bbls) Details	*Not answered.*
Produced Water Released (bbls) Details	Cause: | Production Tank | Produced Water | Released: 200 BBL | Recovered: 8 BBL | Lost: 192 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	*Not answered.*
Natural Gas Vented (Mcf) Details	*Not answered.*
Natural Gas Flared (Mcf) Details	*Not answered.*
Other Released Details	*Not answered.*
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	*Not answered.*

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QUESTIONS (continued)

Operator: BXP Operating, LLC 11757 KATY FREEWAY HOUSTON, TX 77079	OGRID: 329487
	Action Number: 455970
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

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: Dillon Salas Title: Operations Engineer Email: aggie@penrocoil.com Date: 04/27/2025

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QUESTIONS (continued)

Operator: BXP Operating, LLC 11757 KATY FREEWAY HOUSTON, TX 77079	OGRID: 329487
	Action Number: 455970
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 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	No

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	5190
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	57.9
GRO+DRO (EPA SW-846 Method 8015M)	57.9
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
On what estimated date will the remediation commence	12/01/2025
On what date will (or did) the final sampling or liner inspection occur	12/15/2025
On what date will (or was) the remediation complete(d)	12/22/2025
What is the estimated surface area (in square feet) that will be reclaimed	40000
What is the estimated volume (in cubic yards) that will be reclaimed	5926
What is the estimated surface area (in square feet) that will be remediated	40000
What is the estimated volume (in cubic yards) that will be remediated	5926
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.	
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

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QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and **off-site** disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for **off-site** disposal	TNM-55-95 [fAB0000000061]
OR which OCD approved well (API) will be used for **off-site** disposal	*Not answered.*
OR is the **off-site** disposal site, to be used, out-of-state	*Not answered.*
OR is the **off-site** disposal site, to be used, an NMED facility	*Not answered.*
(Ex Situ) Excavation and **on-site** remediation (i.e. On-Site Land Farms)	*Not answered.*
(In Situ) Soil Vapor Extraction	*Not answered.*
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	*Not answered.*
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	*Not answered.*
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	*Not answered.*
Ground Water Abatement pursuant to 19.15.30 NMAC	*Not answered.*
OTHER (Non-listed remedial process)	*Not answered.*
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Dillon Salas Title: Operations Engineer Email: aggie@penrocoil.com Date: 04/27/2025
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

Operator: BXP Operating, LLC 11757 KATY FREEWAY HOUSTON, TX 77079	OGRID: 329487
	Action Number: 455970
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

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

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QUESTIONS (continued)

Operator: BXP Operating, LLC 11757 KATY FREEWAY HOUSTON, TX 77079	OGRID: 329487
	Action Number: 455970
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	***{Unavailable.}***

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	No

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CONDITIONS

Action 455970

CONDITIONS

Operator: BXP Operating, LLC 11757 KATY FREEWAY HOUSTON, TX 77079	OGRID: 329487
	Action Number: 455970
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CONDITIONS

Created By	Condition	Condition Date
amaxwell	Remediation work plan approved.	5/6/2025
amaxwell	Request to delineate via excavation is approved. However, delineation activities must include reclamation standards.	5/6/2025
amaxwell	Submit a report via the OCD permitting portal by August 4, 2025.	5/6/2025