

Released Volume Calculation

Length	40 feet
Width	40 feet
Thickness	0.5 in

800 gal = 19 Est. Total Bbls Released

Volume = L*W*T

Total Released Volume = 800 gallons (US, dry)
19 Bbls



Revised Remediation Summary and Deferral Request

October 11, 2025

**State J 2 #017
30-025-33277
Incident #nSAP0225252743
Lease B0-1534
Lea County, New Mexico**

Prepared For:

Southwest Royalties, Inc.
P.O. Box 53570
Midland, Texas 79710

Prepared By:

Crain Environmental
2925 East 17th Street
Odessa, Texas 79761

A handwritten signature in blue ink that reads "Cynthia K. Crain". The signature is written in a cursive style.

Cynthia K. Crain, P.G.



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1.0 Introduction

On behalf of Southwest Royalties, Inc. (SWR), Crain Environmental (CE) has prepared this Remediation Summary and Deferral Request for a historical release at the State J 2 #017 (Site), located in Unit Letter I, Section 2, Township 22 South, Range 36 East, Lea County, New Mexico, at Global Positioning Coordinates (GPS) 32.4172592, -103.2306595. The property surface rights are owned by the State of New Mexico (Lease BO-1534).

The State J 2 #017 is located approximately 4.5 miles southwest of Eunice, New Mexico, in an area of oil and gas activity and cattle grazing. The Site can be accessed by traveling south from Eunice, New Mexico on Legion Road for 3 miles to Delaware Basin Road. Travel west on Delaware Basin Road for 2.74 miles and turn north on the lease road. Travel north for 1.27 miles to the Site. There are no locked gates or other access issues. The attached Figure 1 shows the Site location.

2.0 Background

At the request of the New Mexico State Land Office (NMSLO) Environmental Compliance Office (ECO), a soil investigation was conducted on the well pad where historical aerial photos indicated a past release, and at the tank battery where an open New Mexico Oil Conservation Division (NMOCD) Incident (#nSAP0225252743) was located.

The soil investigation indicated that a historical release had occurred east of the wellhead, and a Notification of Release (NOR) was submitted to the NMOCD on April 28, 2025. Incident #nAPP2511834534 was assigned to the release.

On April 30, 2025, a Site Characterization Report and Remediation Workplan was submitted to NMOCD and ECO for Incident #s nSAP0225252743 and nAPP2511834534. The Workplan for each Incident # was approved by the NMOCD on May 27, 2025.

On August 25, 2025, a Remediation Summary and Closure Report was submitted to the NMOCD for Incident #s nSAP0225252743 and nAPP2511834534. On September 10, 2025, the NMOCD approved closure of Incident #nAPP2511834534, and rejected closure of Incident #nSAP0225252743 for the following reasons:

- Horizontal delineation was incomplete and did not meet the requirements of 19.15.29.11 NMAC.
- The C-141 is incomplete. Review your C-141 submission and submit a new C-141 answering the appropriate questions for your circumstances. Southwest Royalties has 90 days (December 9, 2025) to submit its appropriate or final remediation closure report.

This Revised Remediation Summary and Deferral has been prepared in accordance with 19.15.29.11 New Mexico Administrative Code (NMAC). The report includes additional laboratory results and is being submitted for Incident nSAP0225252743 prior to the due date of December 9, 2025.



3.0 NMOCD Closure Criteria

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

- Within 300 feet of any continuously flowing watercourse or any other significant watercourse.
- Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary highwater mark).
- Within 300 feet from an occupied permanent residence, school, hospital, institution or church.
- Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes.
- Within 1,000 feet of any fresh water well or spring.
- Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to Section 3-27-3 NMSA 1978 as amended.
- Within 300 feet of a wetland.
- Within the area overlying a subsurface mine.
- Within an unstable area such as a karst formation.
- Within a 100-year floodplain.

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

3.1 Groundwater Evaluation

A review of the New Mexico Office of the State Engineer (NMOSE) records indicated there is one water well located within a 0.5-mile radius of the Site (CP 00761 POD 1) and no depth to groundwater is provided. Two water wells (CP 00763 and L 09966) are located within a 1-mile radius of the Site, and a depth to groundwater for each well is reported to be greater than 50' below ground surface (bgs).

No surface water was present in the area at the time of Site assessment activities, and vegetation is sparse. The United States Fish & Wildlife Service (USFWS) National Wetlands Inventory Map shows a Riverine located approximately 80 feet from the southwest corner of the Site. The Riverine is considered by the USFWS to be an intermittent streambed that is intermittently flooded.

Figure 2 provides a wellhead protection area map that shows the location of the water well within a 0.5-mile radius of the Site. Figure 3 provides a USFWS map. Appendix A provides a copy of the NMOSE Point of Diversion Summary for well CO 00761 POD 1.



As the Riverine is located approximately 80 feet from the southwest corner of the well pad, the most stringent Closure Criteria will be applicable for the Site.

3.2 Surface Features and Other Development

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

- Within 300 feet of any continuously flowing watercourse or any other significant watercourse.
 - No continuously flowing watercourses (rivers, streams, arroyos, etc.) are apparent within 300 feet of the Site in the 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 USFWS wetlands map indicated the Site is not located within 300 feet of a wetland but is located within 80 feet of a Riverine. The New Mexico BLM karst potential map indicates the Site is located within a "low karst potential" area. Finally, a 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 3, 4, and 5 depict the USFWS map, the karst potential map, and the FEMA floodplain map respectively.



3.4 Closure Criteria Applicable to the Site

Based on the presence of a Riverine located approximately 80 feet from the southwest corner of the well pad, the most stringent Closure Criteria will be applicable to the Site. A summary of the Closure Criteria is provided in the table below and in Table 1.

NMOCD Closure Criteria

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

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

4.0 Site Assessment/Characterization Results

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

4.1 Site Map

As required by 19.15.29.11 NMAC, a scaled diagram showing significant Site infrastructure, sample point locations, and known subsurface features such as utilities are provided on Figure 6.

4.2 Depth to Groundwater

As discussed in Section 3.1, a depth to groundwater is thought to be greater than 50' bgs; however, a Riverine is located approximately 80 feet from the southwest corner of the well pad. The assumed depth to groundwater will be less than 50' bgs.

4.3 Wellhead Protection Area

The 0.5-mile wellhead protection area is shown on Figure 2. 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.

5.0 Summary of Remediation Activities

As all sample locations were in areas that were previously disturbed, compliance with the Cultural Properties Protection (CPP) Rule did not apply, and an Archaeological Survey was not completed prior to the soil investigation. A biological desktop review was conducted, and no sensitive wildlife or plant species were found in proximity to the subject Site. A copy of the U.S. Fish & Wildlife Service database review is included as Appendix B.

5.1 Remediation Results – Incident #nSAP0225252743

Following approval of the Site Characterization Report and Remediation Workplan on May 27, 2025, excavation was conducted until five-point composite samples were collected from the bottom (B-1 and B-2) and sidewalls (S-1 through S-9) of the excavations on July 24, 2025.

All confirmation samples were placed in laboratory prepared containers, properly labeled, immediately placed on ice, and hand delivered to Eurofins for analysis of TPH, BTEX, and chlorides.

Table 1 provides a summary of the laboratory results. Figure 6 shows the sample locations. The laboratory report and chain-of-custody documentation is included as Appendix C. A photographic log that documents assessment activities is included as Appendix D.

Referring to Table 1, concentrations of benzene and total 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 sidewall samples S-5 (2,870 mg/kg), S-7 (164 mg/kg), S-8 (121 mg/kg), and bottom sample B-1 (121 mg/kg). Concentrations of chlorides were reported above the Closure Criteria in sidewall samples S-1 (1,600 mg/kg) and S-4 (1,350 mg/kg).

Excavation was continued at sidewall sample locations S-7 and S-8 and bottom sample B-1 until five-point composite samples were collected on August 7, 2025, from each of those locations. All confirmation samples were placed in laboratory prepared containers, properly labeled, immediately placed on ice, and hand delivered to Eurofins for analysis of TPH, BTEX, and chlorides.

Table 1 provides a summary of the laboratory results. Figure 6 shows the sample locations. The laboratory report and chain-of-custody documentation is included as Appendix C. A photographic log that documents assessment activities is included as Appendix D.

Referring to Table 1, all final samples collected from the sidewalls and bottom of the east excavation reported TPH, BTEX, and chloride concentrations below the Closure Criteria.



Excavation could not be continued at sidewall sample points S-1, S-4, and S-5 because of the proximity to active storage tanks and steel piping.

On September 17, 2025, samples were collected from the surface (0-6") and at a depth of 1' bgs from locations to the south (S-10) and northwest (S-11) of the west excavation. All samples were placed in laboratory prepared containers, properly labeled, immediately placed on ice, and hand delivered to Eurofins for analysis of TPH, BTEX, and chlorides.

Table 1 provides a summary of the laboratory results. Figure 6 shows the sample locations. The laboratory report and chain-of-custody documentation is included as Appendix C. A photographic log that documents assessment activities is included as Appendix D.

Referring to Table 1, all samples collected from sample points S-10 and S-11 reported TPH, BTEX, and chloride concentrations below the Closure Criteria. Horizontal delineation of TPH, BTEX, and chloride concentrations is provided by sample points S-2, S-3, S-6, S-9, S-10, and S-11, and vertical delineation of TPH, BTEX, and chloride concentrations is provided by sample point B-2.

The final west excavation covered a surface area of 147 ft² and the final east excavation covered a surface area of 105 ft². The concentrations of TPH and chloride remaining in place do not pose an imminent risk to human health, the environment, or groundwater, as the source of the release has been repaired, and a major portion of affected soil has been removed.

From June 30 to July 7, 2025, 280 cubic yards (cy) of soil excavated from both Incident excavations were hauled to Lea Land, LLC Surface Waste Landfill (Lea Land) for disposal, and on August 25, 2025, an additional 52 cy of soil from both Incident excavations were hauled to Lea Land. A total of 332 cy of soil excavated from both Incident areas were hauled to disposal. Waste Manifests are provided in Appendix E.

5.2 Laboratory Analytical Data Quality Assurance/Quality Control Results

Laboratory data in Report Numbers 880-60809-1, 880-61299-1, and 880-62820-1 generated by Eurofins, was reviewed to ensure that reported analytical results met data quality objectives. It was determined by quality control data associated with analytical results that reported concentrations of target analytes are defensible and that measurement data reliability is within the expected limits of sampling and analytical error. All analytical results are usable for characterization of soil at the Site. The laboratory analytical results are provided as Appendix C.

6.0 Deferral Request

A combined total of 332 cy of soil from Incident #s nSAP0225252743 and nAPP2511834534 were excavated and hauled to disposal at Lea Land.

All impacted soil that could be safely removed from the tank battery area at **Incident # nSAP0225252743** was excavated and disposed. The final west excavation covered a surface area of 147 ft² and the final east excavation covered a surface area of 105 ft².



Excavation could not be continued at sidewall sample points S-1, S-4, and S-5 because of the proximity to active storage tanks and steel piping. Horizontal delineation of TPH, BTEX, and chloride concentrations is provided by sample points S-2, S-3, S-6, S-9, S-10, and S-11, and vertical delineation of TPH, BTEX, and chloride concentrations is provided by sample point B-2. The concentrations of TPH and chloride remaining in place do not pose an imminent risk to human health, the environment, or groundwater as the source of the release has been repaired, and a major portion of affected soil has been removed.

Pursuant to 19.15.29.12 (C) (2) NMAC, Southwest Royalties respectfully requests the deferral of final remediation below the storage tanks and steel piping until time of abandonment of the tank battery.

Upon NMOCD and ECO approval of this Closure Report, the excavations will be backfilled to grade with non-impacted similar material obtained for a nearby source. Prior to use, a five-point composite sample will be collected from the backfill material, and will be analyzed for TPH, BTEX, and chlorides.

Pursuant to 19.15.29.13 NMAC, the impacted surface areas will be restored to pre-release conditions, and the berm surrounding the tanks will be reinforced to ensure containment of fluids if another release were to occur.

7.0 Distribution

Copy 1: Environmental Compliance Office
ECO@nmslo.gov



TABLE

**TABLE 1
SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS FROM EXCAVATION
SOUTHWEST ROYALTIES, INC.
STATE J 2 #017
INCIDENT #nSAP0225252743 (Tank Battery)**

Sample ID	Sample Date	Sample Depth	Soil Status	TPH (GRO)	TPH (DRO)	TPH (MRO)	Total TPH	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	Chloride
				milligrams per kilogram (mg/kg)									
NMOCD Closure Criteria							100	10	-	-	-	50	600
Confirmation Sidewall Samples													
S-1	07/24/25	0-4'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00141	<0.00202	<0.00110	<0.00231	<0.00231	1,600 F1
S-2	07/24/25	0-4'	In Situ	<14.6	<15.2	<15.2	<15.2	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	471
S-3	07/24/25	0-4'	In Situ	<14.5	50.0 J	<15.1	50.0 J	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	538
S-4	07/24/25	0-4'	In Situ	<14.5	49.5 J	<15.1	49.5 J	<0.00138	<0.00198	<0.00108	<0.00226	<0.00226	1,350
S-5	07/24/25	0-4'	In Situ	<72.6	2,870	<75.6	2,870	<0.00140	<0.00201	<0.00109	0.00558	0.00508	551
S-6	07/24/25	0-4'	In Situ	<14.5	47.3 J	<15.1	47.3 J	<0.00140	<0.00201	<0.00110	<0.00230	<0.00230	10.3
S-7	07/24/25	0-4'	Excavated	<14.5	164	<15.1	164	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	113
S-7	08/07/25	0-6.5'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00138	<0.00198	<0.00108	<0.00226	<0.00226	6.13 J F1
S-8	07/24/25	0-4'	Excavated	<14.5	121	<15.1	121	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	8.87 J
S-8	08/07/25	0-6.5'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00140	<0.00201	<0.00109	<0.00229	<0.00229	4.72 J
S-9	07/24/25	0-4'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00139	<0.00200	<0.00109	<0.00229	<0.00229	20.7
S-10	09/27/25	0-6"	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00140	<0.00201	<0.00109	<0.00229	<0.00229	49.8 F1
S-10	09/27/25	1'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	38.4
S-11	09/27/25	0-6"	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	40.1
S-11	09/27/25	1'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00140	<0.00201	<0.00109	<0.00229	<0.00229	38.1
Confirmation Bottom Samples													
B-1	07/24/25	6'	Excavated	<14.5	121	<15.1	121	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	10.7
B-1	08/07/25	6.5'	In Situ	<14.4	<15.0	15.1 J	15.1 J	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	4.00 J
B-2	07/24/25	9'	In Situ	<14.5	34.4 J	<15.1	34.4 J	<0.00140	<0.00201	<0.00109	<0.00229	<0.00229	4.69 J

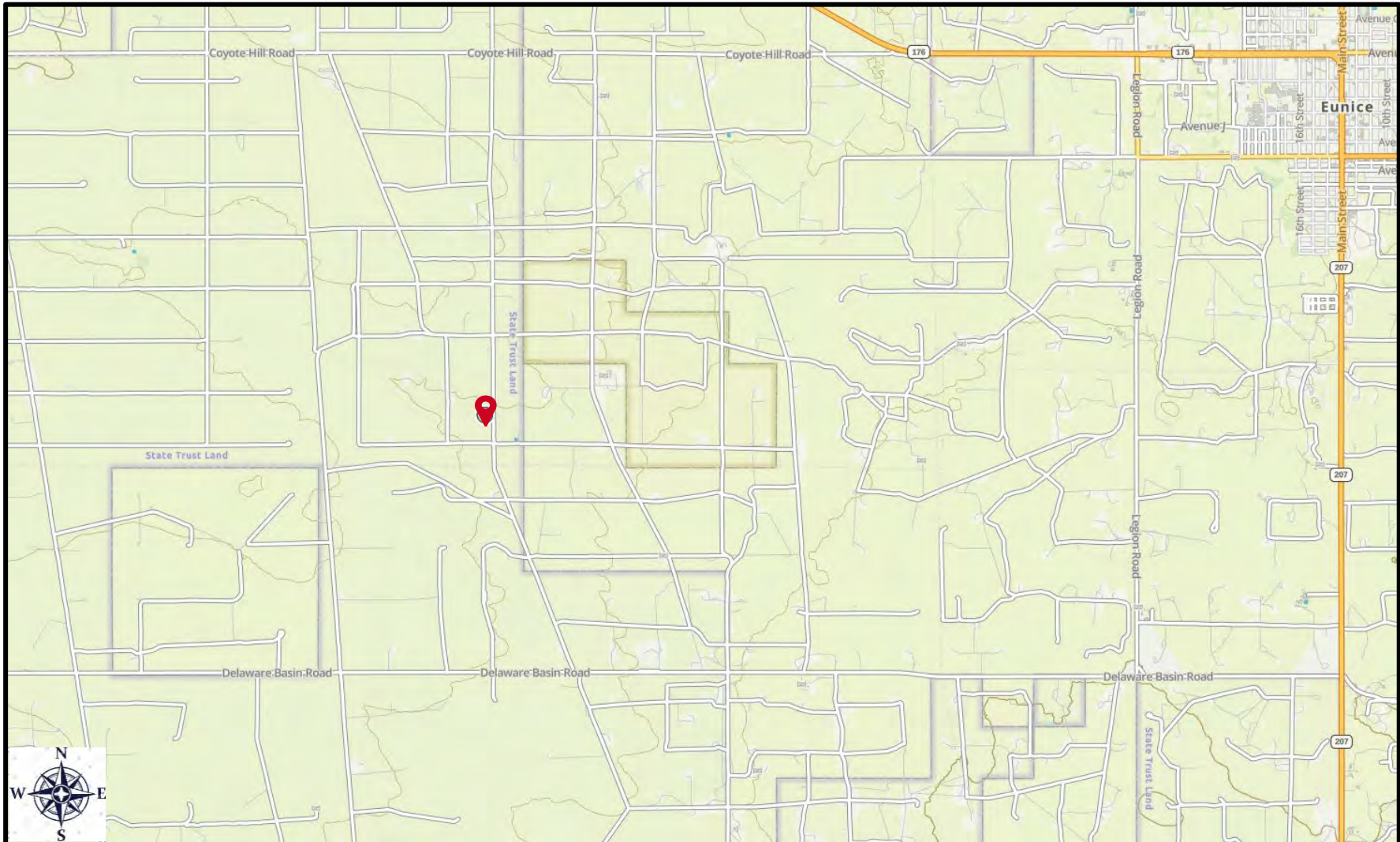
Notes:

- GRO: Gasoline Range Organics
- DRO: Diesel Range Organics
- MRO: Motor Oil Range Organics
- : No NMOCD Closure Criteria established.
- bgs: Below Ground Surface
- Bold indicates the COC was above the appropriate laboratory method/sample detection limit.
- < indicates the COC was below the appropriate laboratory method/sample detection limit.
- Bold and yellow highlighting** indicates the COC was above the appropriate NMOCD Closure Criteria.
- Green highlighting** and italic font indicates soil was excavated, sprayed with Microblaze, and returned to excavation.
- J: Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
- F1: MS and/or MSD recovery exceeds control limits.

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FIGURES



LEGEND:



Site Location

Figure 1
Site Location Map
 Southwest Royalties, Inc.
 State J 2 #017
 Lea County, New Mexico

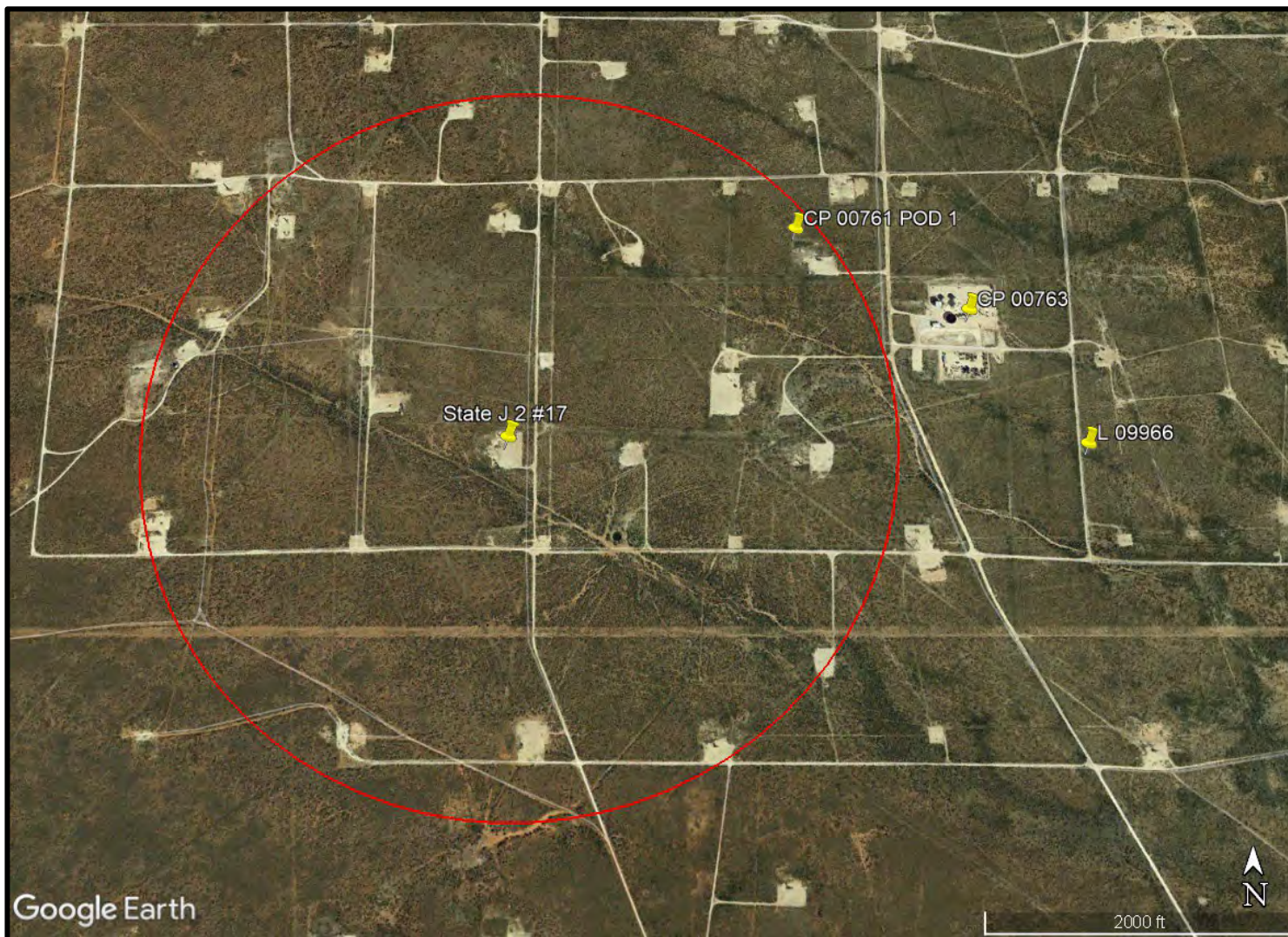
Drafted by: CC | Checked by: CC




Draft: Feb. 6, 2025

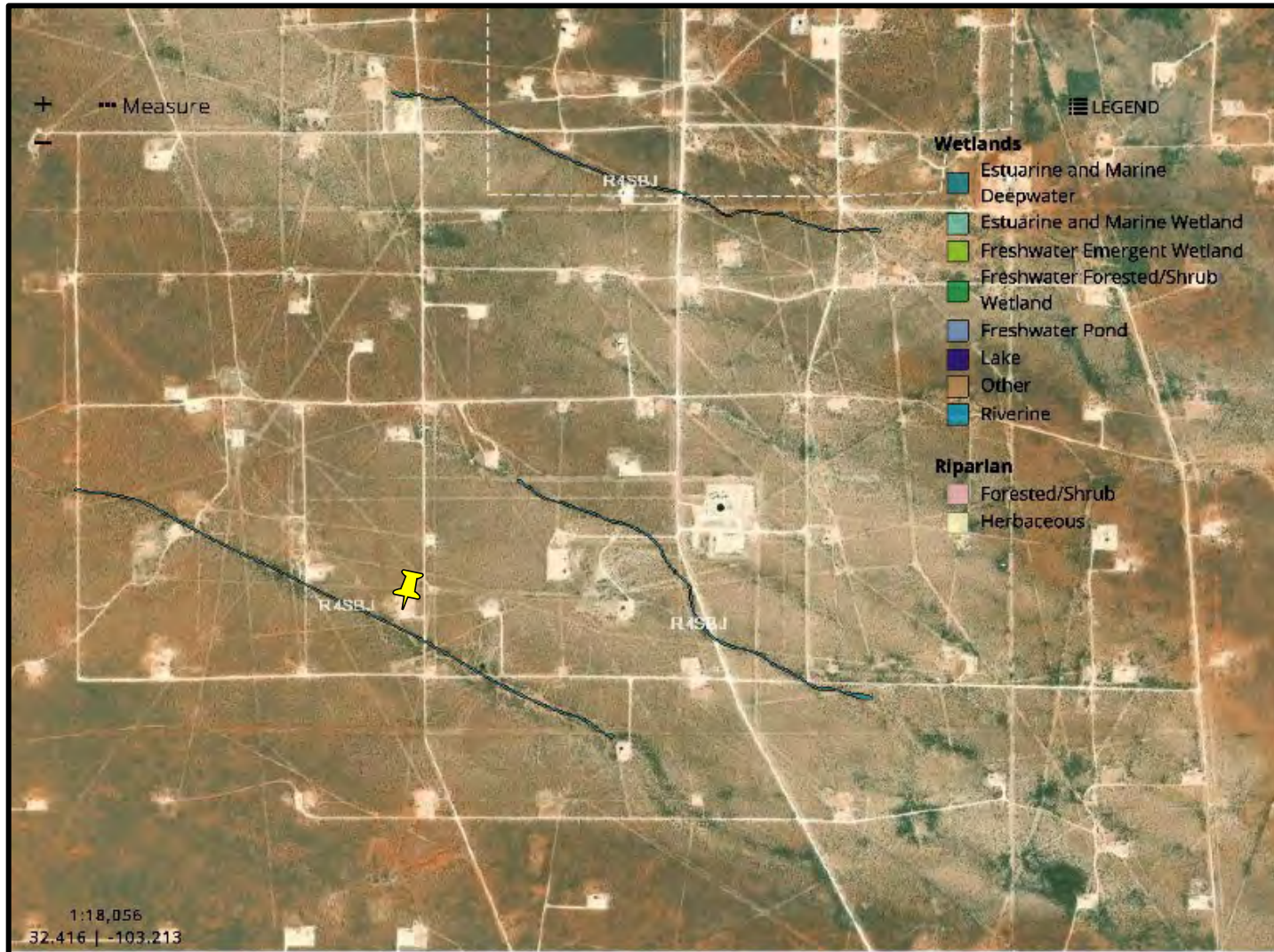
GPS: 32.4172592° -103.2306595°

Base Map from GAIA Topo

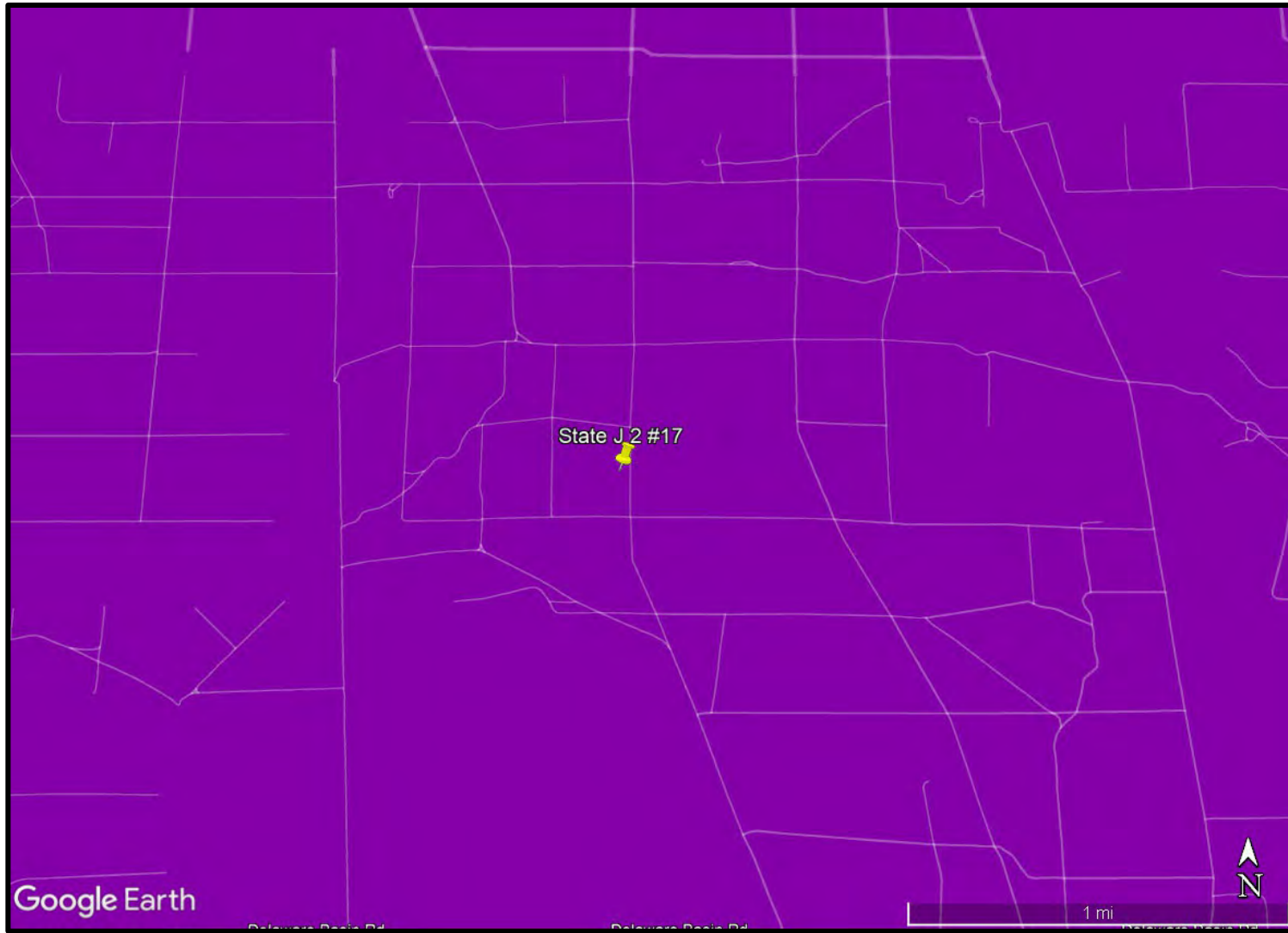





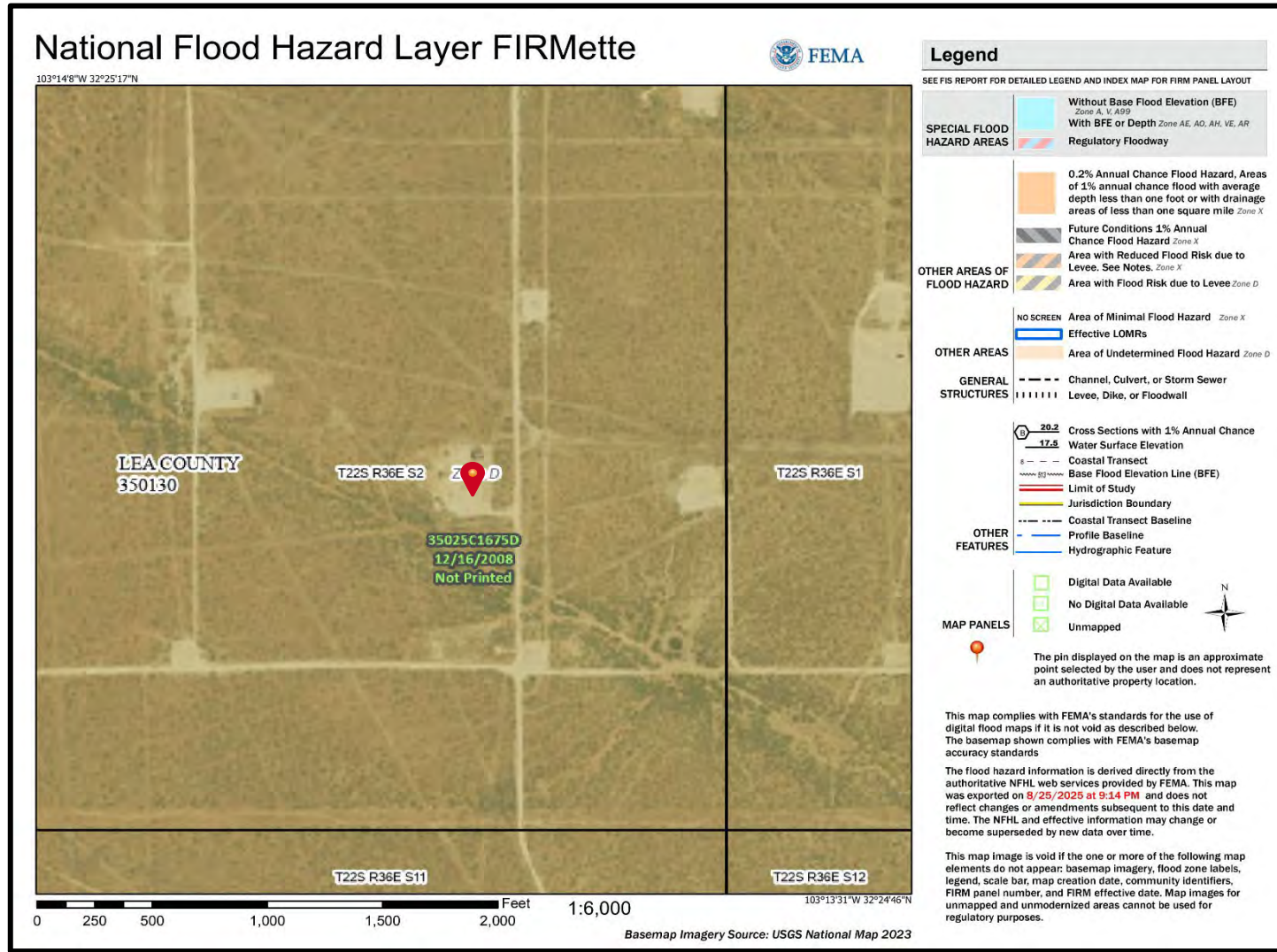
<p>LEGEND:</p> <p> Site and Water Well Locations</p> <p> 0.5-Mile Radius</p> <p>Base map from Google Earth Pro</p>	<p align="center">Figure 2</p> <p align="center">Wellhead Protection Area Map</p> <p align="center">Southwest Royalties, Inc.</p> <p align="center">State J 2 #017</p> <p align="center">Lea County, New Mexico</p>	<table border="1"> <tr><td> </td></tr> <tr><td>Drafted by: CC Checked by: CC</td></tr> <tr><td>Draft: April 6, 2025</td></tr> <tr><td>GPS: 32.4172592° -103.2306595°</td></tr> <tr><td> </td></tr> <tr><td> </td></tr> </table>		Drafted by: CC Checked by: CC	Draft: April 6, 2025	GPS: 32.4172592° -103.2306595°			
Drafted by: CC Checked by: CC									
Draft: April 6, 2025									
GPS: 32.4172592° -103.2306595°									




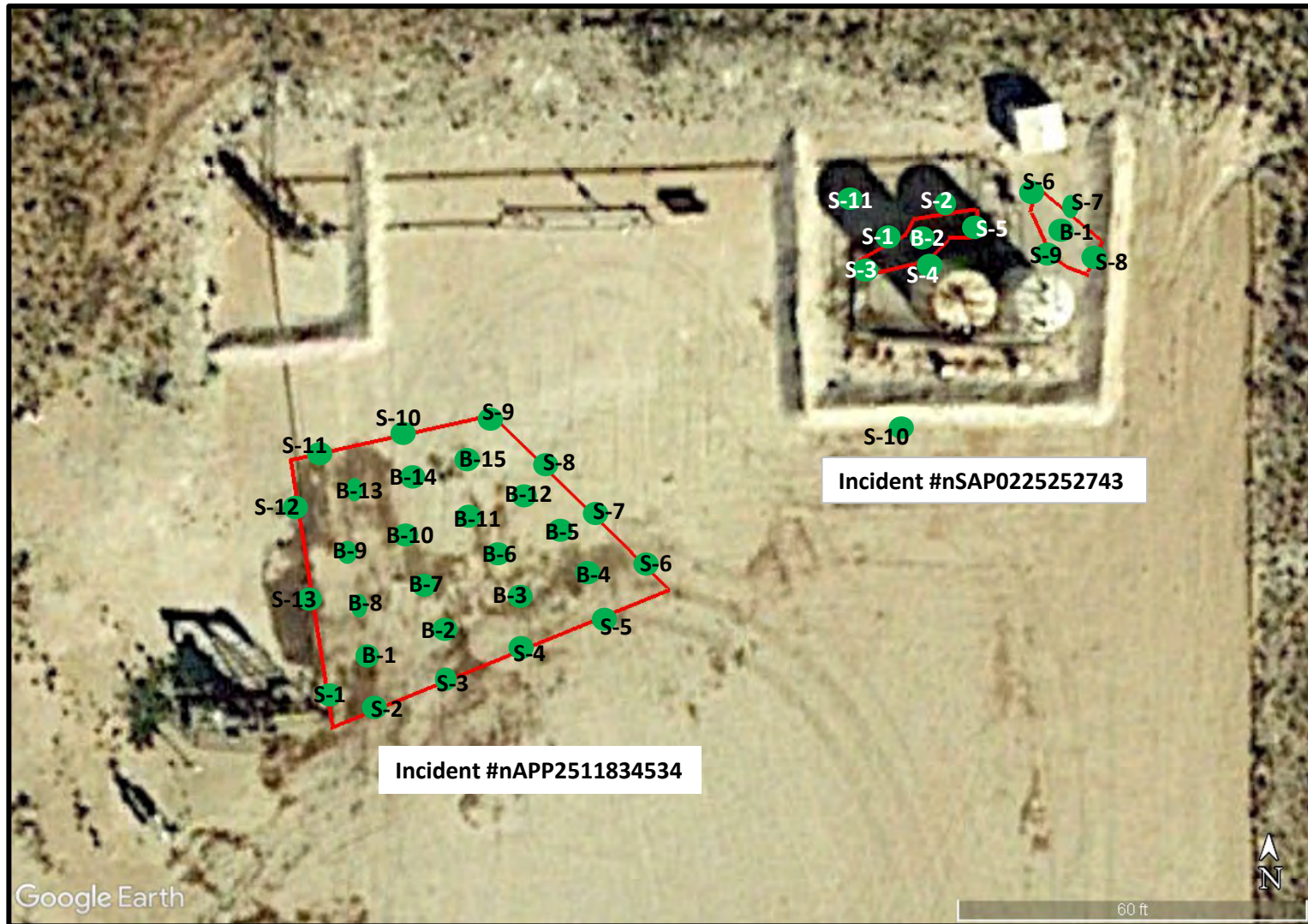
LEGEND:  Site Location	Figure 3 National Wetland Inventory Map Southwest Royalties, Inc. State J 2 #017 Lea County, New Mexico	Drafted by: CC Checked by: CC	
		Draft: April 6, 2025	
GPS: 32.4172592° -103.2306595°			
Base map from US Fish & Wildlife Service			






<p>LEGEND:</p> <ul style="list-style-type: none"> Low Karst Potential Medium Karst Potential High Karst Potential <p>Base map from Google Earth Pro and BLM</p>	<p>Figure 4 Karst Potential Map Southwest Royalties, Inc. State J 2 #017 Lea County, New Mexico</p>	<p>Drafted by: CC Checked by: CC</p> <p>Draft: April 6, 2025</p> <p>GPS: 32.4172592° -103.2306595°</p>	
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<p>LEGEND:</p> <div style="display: flex; align-items: center; margin-bottom: 5px;"> Site Location </div>	<p>Figure 5 FEMA Floodplain Map Southwest Royalties, Inc. State J 2 #017 Lea County, New Mexico</p>	<p>Drafted by: CC Checked by: CC</p> <p>Draft: August 25, 2025</p> <p>GPS: 32.4172592° -103.2306595°</p> <p>Base Map from FEMA</p>	
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LEGEND:  Sample Location with Sample Number  Excavation Boundary	Figure 6 Sample Location Map Southwest Royalties, Inc. State J 2 #017 Lea County, New Mexico	Drafted by: CC Checked by: CC	
		Draft: Oct. 11, 2025	
GPS: 32.4172592° -103.2306595°			
Base Map from Google Earth (2017)			



Appendix A: NMOSE Point of Diversion Summary

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
CP 00761	POD1	SE	SW	NW	01	22S	36E	666964.0	3588569.0 *	

* UTM location was derived from PLSS - see Help

Driller License:	1612	Driller Company:	CAPSTAR DRILLING, L.P.
Driller Name:	WILSON S. MCCLURY		
Drill Start Date:	1991-09-22	Drill Finish Date:	1992-01-07
Log File Date:	1994-08-16	PCW Rcv Date:	1994-08-16
Pump Type:	SUBMER	Pipe Discharge Size:	4
Casing Size:	8.63	Depth Well:	5000
		Plug Date:	
		Source:	Artesian
		Estimated Yield:	
		Depth Water:	

Water Bearing Stratifications:

Top	Bottom	Description
4080	5000	Limestone/Dolomite/Chalk

Meter Information

Meter Number:	10252	Meter Make:	HALLIBURTON
Meter Serial Number:	4SBF2540	Meter Multiplier:	1.0000
Number of Dials:	9	Meter Type:	Diversion
Unit of Measure:	Barrels 42 gal.	Reading Frequency:	Quarterly

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount	Online
2005-12-31	2005	0.000	A	RPT		0.000	
2006-03-31	2006	0.000	A	RPT		0.000	
2006-06-30	2006	0.000	A	RPT		0.000	
2006-10-30	2006	0.000	A	RPT		0.000	
2006-12-31	2006	0.000	A	RPT		0.000	

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount	Online
2014-03-31	2014	0.000	A	RPT		0.000	
2014-06-30	2014	0.000	A	RPT		0.000	

YTD Meter Amounts:

Year	Amount
2005	0.000
2006	0.000
2014	0.000

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

4/30/25 12:04 AM MST

Point of Diversion Summary

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Appendix B: Biological Desktop Review

Project code: 2025-0079048

04/06/2025 05:53:43 UTC

PROJECT SUMMARY

Project Code: 2025-0079048
Project Name: State J 2 #017
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/@32.4174195,-103.23131530779142,14z>



Counties: Lea County, New Mexico

Project code: 2025-0079048

04/06/2025 05:53:43 UTC

BIRDS

NAME	STATUS
Lesser Prairie-chicken <i>Tympanuchus pallidicinctus</i> Population: Southern DPS No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/1924	Endangered
Northern Aplomado Falcon <i>Falco femoralis septentrionalis</i> Population: U.S.A (AZ, NM) No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/1923	Experimental Population, Non- Essential

INSECTS

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

CRITICAL HABITATS

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

YOU ARE STILL REQUIRED TO DETERMINE IF YOUR PROJECT(S) MAY HAVE EFFECTS ON ALL ABOVE LISTED SPECIES.



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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 7/30/2025 10:04:07 AM

JOB DESCRIPTION

State J 2 #17
 Lea Co. NM

JOB NUMBER

880-60809-1

Eurofins Midland
 1211 W. Florida Ave
 Midland TX 79701



Eurofins Midland

Job Notes

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

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

Authorization



Generated
7/30/2025 10:04:07 AM

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

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Client: Crain Environmental
Project/Site: State J 2 #17

Laboratory Job ID: 880-60809-1
SDG: Lea Co. NM

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Definitions/Glossary

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-60809-1
SDG: Lea Co. NM

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Case Narrative

Client: Crain Environmental
Project: State J 2 #17

Job ID: 880-60809-1

Job ID: 880-60809-1

Eurofins Midland

Job Narrative 880-60809-1

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 7/25/2025 1:05 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.4°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: B-1 (880-60809-1), B-2 (880-60809-2), S-1 (880-60809-3), S-2 (880-60809-4), S-3 (880-60809-5), S-4 (880-60809-6), S-5 (880-60809-7), S-6 (880-60809-8), S-7 (880-60809-9), S-8 (880-60809-10) and S-9 (880-60809-11).

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: S-9 (880-60809-11). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

Diesel Range Organics

Method 8015MOD_NM: The method blank for preparation batch 880-115092 and 880-115105 and analytical batch 880-115272 contained Gasoline Range Organics (GRO)-C6-C10 above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

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

HPLC/IC

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-115124 and analytical batch 880-115189 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

Eurofins Midland

Client Sample Results

Client: Crain Environmental
 Project/Site: State J 2 #17

Job ID: 880-60809-1
 SDG: Lea Co. NM

Client Sample ID: B-1

Lab Sample ID: 880-60809-1

Date Collected: 07/24/25 11:00

Matrix: Solid

Date Received: 07/25/25 13:05

Sample Depth: 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		07/28/25 09:44	07/28/25 23:00	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		07/28/25 09:44	07/28/25 23:00	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		07/28/25 09:44	07/28/25 23:00	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		07/28/25 09:44	07/28/25 23:00	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		07/28/25 09:44	07/28/25 23:00	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg		07/28/25 09:44	07/28/25 23:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130	07/28/25 09:44	07/28/25 23:00	1
1,4-Difluorobenzene (Surr)	92		70 - 130	07/28/25 09:44	07/28/25 23:00	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			07/28/25 23:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	121		49.8	15.1	mg/Kg			07/30/25 05:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.8	14.5	mg/Kg		07/28/25 08:41	07/30/25 05:57	1
Diesel Range Organics (Over C10-C28)	121		49.8	15.1	mg/Kg		07/28/25 08:41	07/30/25 05:57	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		07/28/25 08:41	07/30/25 05:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130	07/28/25 08:41	07/30/25 05:57	1
o-Terphenyl	104		70 - 130	07/28/25 08:41	07/30/25 05:57	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.7		9.94	0.393	mg/Kg			07/28/25 18:01	1

Client Sample ID: B-2

Lab Sample ID: 880-60809-2

Date Collected: 07/24/25 11:04

Matrix: Solid

Date Received: 07/25/25 13:05

Sample Depth: 9'

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		07/28/25 09:44	07/28/25 23:20	1
Toluene	<0.00201	U	0.00201	0.00201	mg/Kg		07/28/25 09:44	07/28/25 23:20	1
Ethylbenzene	<0.00109	U	0.00201	0.00109	mg/Kg		07/28/25 09:44	07/28/25 23:20	1
m-Xylene & p-Xylene	<0.00229	U	0.00402	0.00229	mg/Kg		07/28/25 09:44	07/28/25 23:20	1
o-Xylene	<0.00159	U	0.00201	0.00159	mg/Kg		07/28/25 09:44	07/28/25 23:20	1
Xylenes, Total	<0.00229	U	0.00402	0.00229	mg/Kg		07/28/25 09:44	07/28/25 23:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130	07/28/25 09:44	07/28/25 23:20	1

Eurofins Midland

Client Sample Results

Client: Crain Environmental
 Project/Site: State J 2 #17

Job ID: 880-60809-1
 SDG: Lea Co. NM

Client Sample ID: B-2

Lab Sample ID: 880-60809-2

Date Collected: 07/24/25 11:04

Matrix: Solid

Date Received: 07/25/25 13:05

Sample Depth: 9'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	92		70 - 130	07/28/25 09:44	07/28/25 23:20	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			07/28/25 23:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	34.4	J	49.9	15.1	mg/Kg			07/30/25 06:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.9	14.5	mg/Kg		07/28/25 08:41	07/30/25 06:13	1
Diesel Range Organics (Over C10-C28)	34.4	J	49.9	15.1	mg/Kg		07/28/25 08:41	07/30/25 06:13	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		07/28/25 08:41	07/30/25 06:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130	07/28/25 08:41	07/30/25 06:13	1
o-Terphenyl	97		70 - 130	07/28/25 08:41	07/30/25 06:13	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.69	J	10.1	0.398	mg/Kg			07/28/25 18:09	1

Client Sample ID: S-1

Lab Sample ID: 880-60809-3

Date Collected: 07/24/25 11:08

Matrix: Solid

Date Received: 07/25/25 13:05

Sample Depth: 0-4'

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		07/28/25 09:44	07/28/25 23:41	1
Toluene	<0.00202	U	0.00202	0.00202	mg/Kg		07/28/25 09:44	07/28/25 23:41	1
Ethylbenzene	<0.00110	U	0.00202	0.00110	mg/Kg		07/28/25 09:44	07/28/25 23:41	1
m-Xylene & p-Xylene	<0.00231	U	0.00404	0.00231	mg/Kg		07/28/25 09:44	07/28/25 23:41	1
o-Xylene	<0.00160	U	0.00202	0.00160	mg/Kg		07/28/25 09:44	07/28/25 23:41	1
Xylenes, Total	<0.00231	U	0.00404	0.00231	mg/Kg		07/28/25 09:44	07/28/25 23:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130	07/28/25 09:44	07/28/25 23:41	1
1,4-Difluorobenzene (Surr)	91		70 - 130	07/28/25 09:44	07/28/25 23:41	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			07/28/25 23:41	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			07/30/25 06:30	1

Eurofins Midland

Client Sample Results

Client: Crain Environmental
 Project/Site: State J 2 #17

Job ID: 880-60809-1
 SDG: Lea Co. NM

Client Sample ID: S-1

Lab Sample ID: 880-60809-3

Date Collected: 07/24/25 11:08

Matrix: Solid

Date Received: 07/25/25 13:05

Sample Depth: 0-4'

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		07/28/25 08:41	07/30/25 06:30	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		07/28/25 08:41	07/30/25 06:30	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		07/28/25 08:41	07/30/25 06:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130				07/28/25 08:41	07/30/25 06:30	1
o-Terphenyl	100		70 - 130				07/28/25 08:41	07/30/25 06:30	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1600	F1	50.3	1.99	mg/Kg			07/28/25 18:02	5

Client Sample ID: S-2

Lab Sample ID: 880-60809-4

Date Collected: 07/24/25 11:10

Matrix: Solid

Date Received: 07/25/25 13:05

Sample Depth: 0-4'

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		07/28/25 09:44	07/29/25 00:01	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		07/28/25 09:44	07/29/25 00:01	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		07/28/25 09:44	07/29/25 00:01	1
m-Xylene & p-Xylene	<0.00227	U	0.00398	0.00227	mg/Kg		07/28/25 09:44	07/29/25 00:01	1
o-Xylene	<0.00157	U	0.00199	0.00157	mg/Kg		07/28/25 09:44	07/29/25 00:01	1
Xylenes, Total	<0.00227	U	0.00398	0.00227	mg/Kg		07/28/25 09:44	07/29/25 00:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130				07/28/25 09:44	07/29/25 00:01	1
1,4-Difluorobenzene (Surr)	91		70 - 130				07/28/25 09:44	07/29/25 00:01	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			07/29/25 00:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.2	U	50.2	15.2	mg/Kg			07/30/25 06:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.6	U	50.2	14.6	mg/Kg		07/28/25 08:41	07/30/25 06:45	1
Diesel Range Organics (Over C10-C28)	<15.2	U	50.2	15.2	mg/Kg		07/28/25 08:41	07/30/25 06:45	1
Oil Range Organics (Over C28-C36)	<15.2	U	50.2	15.2	mg/Kg		07/28/25 08:41	07/30/25 06:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130				07/28/25 08:41	07/30/25 06:45	1
o-Terphenyl	100		70 - 130				07/28/25 08:41	07/30/25 06:45	1

Eurofins Midland

Client Sample Results

Client: Crain Environmental
 Project/Site: State J 2 #17

Job ID: 880-60809-1
 SDG: Lea Co. NM

Client Sample ID: S-2

Lab Sample ID: 880-60809-4

Date Collected: 07/24/25 11:10
 Date Received: 07/25/25 13:05
 Sample Depth: 0-4'

Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	471		9.98	0.394	mg/Kg			07/28/25 18:19	1

Client Sample ID: S-3

Lab Sample ID: 880-60809-5

Date Collected: 07/24/25 11:14
 Date Received: 07/25/25 13:05
 Sample Depth: 0-4'

Matrix: Solid

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		07/28/25 09:44	07/29/25 00:22	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		07/28/25 09:44	07/29/25 00:22	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		07/28/25 09:44	07/29/25 00:22	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		07/28/25 09:44	07/29/25 00:22	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		07/28/25 09:44	07/29/25 00:22	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg		07/28/25 09:44	07/29/25 00:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130				07/28/25 09:44	07/29/25 00:22	1
1,4-Difluorobenzene (Surr)	93		70 - 130				07/28/25 09:44	07/29/25 00:22	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			07/29/25 00:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	50.0	J	50.1	15.1	mg/Kg			07/30/25 07:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.1	14.5	mg/Kg		07/28/25 08:41	07/30/25 07:02	1
Diesel Range Organics (Over C10-C28)	50.0	J	50.1	15.1	mg/Kg		07/28/25 08:41	07/30/25 07:02	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.1	15.1	mg/Kg		07/28/25 08:41	07/30/25 07:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				07/28/25 08:41	07/30/25 07:02	1
o-Terphenyl	92		70 - 130				07/28/25 08:41	07/30/25 07:02	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	538		50.5	1.99	mg/Kg			07/28/25 18:25	5

Client Sample Results

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-60809-1
SDG: Lea Co. NM

Client Sample ID: S-4

Lab Sample ID: 880-60809-6

Date Collected: 07/24/25 11:18

Matrix: Solid

Date Received: 07/25/25 13:05

Sample Depth: 0-4'

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		07/28/25 09:44	07/29/25 00:42	1
Toluene	<0.00198	U	0.00198	0.00198	mg/Kg		07/28/25 09:44	07/29/25 00:42	1
Ethylbenzene	<0.00108	U	0.00198	0.00108	mg/Kg		07/28/25 09:44	07/29/25 00:42	1
m-Xylene & p-Xylene	<0.00226	U	0.00396	0.00226	mg/Kg		07/28/25 09:44	07/29/25 00:42	1
o-Xylene	<0.00157	U	0.00198	0.00157	mg/Kg		07/28/25 09:44	07/29/25 00:42	1
Xylenes, Total	<0.00226	U	0.00396	0.00226	mg/Kg		07/28/25 09:44	07/29/25 00:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130	07/28/25 09:44	07/29/25 00:42	1
1,4-Difluorobenzene (Surr)	92		70 - 130	07/28/25 09:44	07/29/25 00:42	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			07/29/25 00:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	49.5	J	49.9	15.1	mg/Kg			07/29/25 17:12	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	49.9	14.5	mg/Kg		07/28/25 09:50	07/29/25 17:12	1
Diesel Range Organics (Over C10-C28)	49.5	J	49.9	15.1	mg/Kg		07/28/25 09:50	07/29/25 17:12	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		07/28/25 09:50	07/29/25 17:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130	07/28/25 09:50	07/29/25 17:12	1
o-Terphenyl	102		70 - 130	07/28/25 09:50	07/29/25 17:12	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1350		10.0	0.396	mg/Kg			07/28/25 18:30	1

Client Sample ID: S-5

Lab Sample ID: 880-60809-7

Date Collected: 07/24/25 11:21

Matrix: Solid

Date Received: 07/25/25 13:05

Sample Depth: 0-4'

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		07/28/25 09:44	07/29/25 01:03	1
Toluene	<0.00201	U	0.00201	0.00201	mg/Kg		07/28/25 09:44	07/29/25 01:03	1
Ethylbenzene	<0.00109	U	0.00201	0.00109	mg/Kg		07/28/25 09:44	07/29/25 01:03	1
m-Xylene & p-Xylene	0.00558		0.00402	0.00229	mg/Kg		07/28/25 09:44	07/29/25 01:03	1
o-Xylene	<0.00159	U	0.00201	0.00159	mg/Kg		07/28/25 09:44	07/29/25 01:03	1
Xylenes, Total	0.00558		0.00402	0.00229	mg/Kg		07/28/25 09:44	07/29/25 01:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130	07/28/25 09:44	07/29/25 01:03	1

Eurofins Midland

Client Sample Results

Client: Crain Environmental
 Project/Site: State J 2 #17

Job ID: 880-60809-1
 SDG: Lea Co. NM

Client Sample ID: S-5

Lab Sample ID: 880-60809-7

Date Collected: 07/24/25 11:21

Matrix: Solid

Date Received: 07/25/25 13:05

Sample Depth: 0-4'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	93		70 - 130	07/28/25 09:44	07/29/25 01:03	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00558		0.00402	0.00229	mg/Kg			07/29/25 01:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	2870		250	75.6	mg/Kg			07/29/25 18:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<72.6	U	250	72.6	mg/Kg		07/28/25 09:50	07/29/25 18:00	5
Diesel Range Organics (Over C10-C28)	2870		250	75.6	mg/Kg		07/28/25 09:50	07/29/25 18:00	5
Oil Range Organics (Over C28-C36)	<75.6	U	250	75.6	mg/Kg		07/28/25 09:50	07/29/25 18:00	5
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
1-Chlorooctane	103		70 - 130	07/28/25 09:50	07/29/25 18:00	5			
o-Terphenyl	128		70 - 130	07/28/25 09:50	07/29/25 18:00	5			

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	551		9.96	0.393	mg/Kg			07/28/25 18:36	1

Client Sample ID: S-6

Lab Sample ID: 880-60809-8

Date Collected: 07/24/25 11:25

Matrix: Solid

Date Received: 07/25/25 13:05

Sample Depth: 0-4'

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		07/28/25 09:44	07/29/25 01:23	1
Toluene	<0.00201	U	0.00201	0.00201	mg/Kg		07/28/25 09:44	07/29/25 01:23	1
Ethylbenzene	<0.00110	U	0.00201	0.00110	mg/Kg		07/28/25 09:44	07/29/25 01:23	1
m-Xylene & p-Xylene	<0.00230	U	0.00402	0.00230	mg/Kg		07/28/25 09:44	07/29/25 01:23	1
o-Xylene	<0.00159	U	0.00201	0.00159	mg/Kg		07/28/25 09:44	07/29/25 01:23	1
Xylenes, Total	<0.00230	U	0.00402	0.00230	mg/Kg		07/28/25 09:44	07/29/25 01:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130	07/28/25 09:44	07/29/25 01:23	1
1,4-Difluorobenzene (Surr)	92		70 - 130	07/28/25 09:44	07/29/25 01:23	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			07/29/25 01:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	47.3	J	49.9	15.1	mg/Kg			07/29/25 18:15	1

Eurofins Midland

Client Sample Results

Client: Crain Environmental
 Project/Site: State J 2 #17

Job ID: 880-60809-1
 SDG: Lea Co. NM

Client Sample ID: S-6

Lab Sample ID: 880-60809-8

Date Collected: 07/24/25 11:25

Matrix: Solid

Date Received: 07/25/25 13:05

Sample Depth: 0-4'

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		07/28/25 09:50	07/29/25 18:15	1
Diesel Range Organics (Over C10-C28)	47.3	J	49.9	15.1	mg/Kg		07/28/25 09:50	07/29/25 18:15	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		07/28/25 09:50	07/29/25 18:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130				07/28/25 09:50	07/29/25 18:15	1
o-Terphenyl	105		70 - 130				07/28/25 09:50	07/29/25 18:15	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.3		10.1	0.399	mg/Kg			07/28/25 18:53	1

Client Sample ID: S-7

Lab Sample ID: 880-60809-9

Date Collected: 07/24/25 11:29

Matrix: Solid

Date Received: 07/25/25 13:05

Sample Depth: 0-4'

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		07/28/25 09:44	07/29/25 01:44	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		07/28/25 09:44	07/29/25 01:44	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		07/28/25 09:44	07/29/25 01:44	1
m-Xylene & p-Xylene	<0.00227	U	0.00398	0.00227	mg/Kg		07/28/25 09:44	07/29/25 01:44	1
o-Xylene	<0.00157	U	0.00199	0.00157	mg/Kg		07/28/25 09:44	07/29/25 01:44	1
Xylenes, Total	<0.00227	U	0.00398	0.00227	mg/Kg		07/28/25 09:44	07/29/25 01:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130				07/28/25 09:44	07/29/25 01:44	1
1,4-Difluorobenzene (Surr)	92		70 - 130				07/28/25 09:44	07/29/25 01:44	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			07/29/25 01:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	164		50.0	15.1	mg/Kg			07/29/25 18:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		07/28/25 09:50	07/29/25 18:31	1
Diesel Range Organics (Over C10-C28)	164		50.0	15.1	mg/Kg		07/28/25 09:50	07/29/25 18:31	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		07/28/25 09:50	07/29/25 18:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130				07/28/25 09:50	07/29/25 18:31	1
o-Terphenyl	99		70 - 130				07/28/25 09:50	07/29/25 18:31	1

Eurofins Midland

Client Sample Results

Client: Crain Environmental
 Project/Site: State J 2 #17

Job ID: 880-60809-1
 SDG: Lea Co. NM

Client Sample ID: S-7

Lab Sample ID: 880-60809-9

Date Collected: 07/24/25 11:29
 Date Received: 07/25/25 13:05
 Sample Depth: 0-4'

Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	113		10.1	0.397	mg/Kg			07/28/25 18:58	1

Client Sample ID: S-8

Lab Sample ID: 880-60809-10

Date Collected: 07/24/25 11:34
 Date Received: 07/25/25 13:05
 Sample Depth: 0-4'

Matrix: Solid

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		07/28/25 09:44	07/29/25 02:04	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		07/28/25 09:44	07/29/25 02:04	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		07/28/25 09:44	07/29/25 02:04	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		07/28/25 09:44	07/29/25 02:04	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		07/28/25 09:44	07/29/25 02:04	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg		07/28/25 09:44	07/29/25 02:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130				07/28/25 09:44	07/29/25 02:04	1
1,4-Difluorobenzene (Surr)	90		70 - 130				07/28/25 09:44	07/29/25 02:04	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			07/29/25 02:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	121		49.9	15.1	mg/Kg			07/29/25 18:47	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		07/28/25 09:50	07/29/25 18:47	1
Diesel Range Organics (Over C10-C28)	121		49.9	15.1	mg/Kg		07/28/25 09:50	07/29/25 18:47	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		07/28/25 09:50	07/29/25 18:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130				07/28/25 09:50	07/29/25 18:47	1
o-Terphenyl	96		70 - 130				07/28/25 09:50	07/29/25 18:47	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.87	J	9.98	0.394	mg/Kg			07/28/25 19:04	1

Client Sample Results

Client: Crain Environmental
 Project/Site: State J 2 #17

Job ID: 880-60809-1
 SDG: Lea Co. NM

Client Sample ID: S-9

Lab Sample ID: 880-60809-11

Date Collected: 07/24/25 11:39

Matrix: Solid

Date Received: 07/25/25 13:05

Sample Depth: 0-4'

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		07/28/25 09:44	07/29/25 03:38	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		07/28/25 09:44	07/29/25 03:38	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		07/28/25 09:44	07/29/25 03:38	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		07/28/25 09:44	07/29/25 03:38	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		07/28/25 09:44	07/29/25 03:38	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		07/28/25 09:44	07/29/25 03:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	137	S1+	70 - 130	07/28/25 09:44	07/29/25 03:38	1
1,4-Difluorobenzene (Surr)	92		70 - 130	07/28/25 09:44	07/29/25 03:38	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			07/29/25 03:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	50.0	15.1	mg/Kg			07/29/25 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	50.0	14.5	mg/Kg		07/28/25 09:50	07/29/25 19:03	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		07/28/25 09:50	07/29/25 19:03	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		07/28/25 09:50	07/29/25 19:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130	07/28/25 09:50	07/29/25 19:03	1
o-Terphenyl	103		70 - 130	07/28/25 09:50	07/29/25 19:03	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20.7		10.1	0.398	mg/Kg			07/28/25 19:10	1

Surrogate Summary

Client: Crain Environmental
Project/Site: State J 2 #17Job ID: 880-60809-1
SDG: Lea Co. NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
880-60809-1	B-1	126	92
880-60809-1 MS	B-1	124	98
880-60809-1 MSD	B-1	124	97
880-60809-2	B-2	126	92
880-60809-3	S-1	127	91
880-60809-4	S-2	126	91
880-60809-5	S-3	125	93
880-60809-6	S-4	129	92
880-60809-7	S-5	126	93
880-60809-8	S-6	127	92
880-60809-9	S-7	125	92
880-60809-10	S-8	124	90
880-60809-11	S-9	137 S1+	92
LCS 880-115100/1-A	Lab Control Sample	120	99
LCSD 880-115100/2-A	Lab Control Sample Dup	121	99
MB 880-114949/5-A	Method Blank	116	88
MB 880-115100/5-A	Method Blank	122	90

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	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
880-60775-A-1-F MS	Matrix Spike	98	90
880-60775-A-1-G MSD	Matrix Spike Duplicate	96	88
880-60809-1	B-1	102	104
880-60809-2	B-2	100	97
880-60809-3	S-1	102	100
880-60809-4	S-2	104	100
880-60809-5	S-3	95	92
880-60809-6	S-4	103	102
880-60809-6 MS	S-4	95	100
880-60809-6 MSD	S-4	95	101
880-60809-7	S-5	103	128
880-60809-8	S-6	104	105
880-60809-9	S-7	102	99
880-60809-10	S-8	98	96
880-60809-11	S-9	104	103
LCS 880-115092/2-A	Lab Control Sample	118	110
LCS 880-115105/2-A	Lab Control Sample	111	104
LCSD 880-115092/3-A	Lab Control Sample Dup	99	110
LCSD 880-115105/3-A	Lab Control Sample Dup	93	103
MB 880-115092/1-A	Method Blank	98	104
MB 880-115105/1-A	Method Blank	120	118

Surrogate Legend

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Surrogate Summary

Client: Crain Environmental

Project/Site: State J 2 #17

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Job ID: 880-60809-1

SDG: Lea Co. NM

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QC Sample Results

Client: Crain Environmental
 Project/Site: State J 2 #17

Job ID: 880-60809-1
 SDG: Lea Co. NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-114949/5-A
 Matrix: Solid
 Analysis Batch: 115087

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 114949

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		07/24/25 14:24	07/28/25 11:42	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		07/24/25 14:24	07/28/25 11:42	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		07/24/25 14:24	07/28/25 11:42	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		07/24/25 14:24	07/28/25 11:42	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		07/24/25 14:24	07/28/25 11:42	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		07/24/25 14:24	07/28/25 11:42	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	07/24/25 14:24	07/28/25 11:42	1
1,4-Difluorobenzene (Surr)	88		70 - 130	07/24/25 14:24	07/28/25 11:42	1

Lab Sample ID: MB 880-115100/5-A
 Matrix: Solid
 Analysis Batch: 115087

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 115100

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		07/28/25 09:44	07/28/25 22:38	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		07/28/25 09:44	07/28/25 22:38	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		07/28/25 09:44	07/28/25 22:38	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		07/28/25 09:44	07/28/25 22:38	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		07/28/25 09:44	07/28/25 22:38	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		07/28/25 09:44	07/28/25 22:38	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	07/28/25 09:44	07/28/25 22:38	1
1,4-Difluorobenzene (Surr)	90		70 - 130	07/28/25 09:44	07/28/25 22:38	1

Lab Sample ID: LCS 880-115100/1-A
 Matrix: Solid
 Analysis Batch: 115087

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 115100

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09963		mg/Kg		100	70 - 130
Toluene	0.100	0.08698		mg/Kg		87	70 - 130
Ethylbenzene	0.100	0.09127		mg/Kg		91	70 - 130
m-Xylene & p-Xylene	0.200	0.1763		mg/Kg		88	70 - 130
o-Xylene	0.100	0.09100		mg/Kg		91	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	120		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: LCSD 880-115100/2-A
 Matrix: Solid
 Analysis Batch: 115087

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 115100

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1140		mg/Kg		114	70 - 130	13	35

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QC Sample Results

Client: Crain Environmental
 Project/Site: State J 2 #17

Job ID: 880-60809-1
 SDG: Lea Co. NM

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

Lab Sample ID: LCSD 880-115100/2-A
 Matrix: Solid
 Analysis Batch: 115087

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 115100

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.09992		mg/Kg		100	70 - 130	14	35
Ethylbenzene	0.100	0.1055		mg/Kg		106	70 - 130	15	35
m-Xylene & p-Xylene	0.200	0.2050		mg/Kg		102	70 - 130	15	35
o-Xylene	0.100	0.1043		mg/Kg		104	70 - 130	14	35

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	121		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 880-60809-1 MS
 Matrix: Solid
 Analysis Batch: 115087

Client Sample ID: B-1
 Prep Type: Total/NA
 Prep Batch: 115100

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00139	U	0.100	0.09434		mg/Kg		94	70 - 130
Toluene	<0.00200	U	0.100	0.08135		mg/Kg		81	70 - 130
Ethylbenzene	<0.00109	U	0.100	0.07874		mg/Kg		79	70 - 130
m-Xylene & p-Xylene	<0.00228	U	0.200	0.1514		mg/Kg		76	70 - 130
o-Xylene	<0.00158	U	0.100	0.07860		mg/Kg		79	70 - 130

Surrogate	MS %Recovery	MS Qualifier	MS Limits
4-Bromofluorobenzene (Surr)	124		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 880-60809-1 MSD
 Matrix: Solid
 Analysis Batch: 115087

Client Sample ID: B-1
 Prep Type: Total/NA
 Prep Batch: 115100

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	0.09942		mg/Kg		99	70 - 130	5	35
Toluene	<0.00200	U	0.100	0.08399		mg/Kg		84	70 - 130	3	35
Ethylbenzene	<0.00109	U	0.100	0.08188		mg/Kg		82	70 - 130	4	35
m-Xylene & p-Xylene	<0.00228	U	0.200	0.1567		mg/Kg		78	70 - 130	3	35
o-Xylene	<0.00158	U	0.100	0.08088		mg/Kg		81	70 - 130	3	35

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
4-Bromofluorobenzene (Surr)	124		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

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

Lab Sample ID: MB 880-115092/1-A
 Matrix: Solid
 Analysis Batch: 115272

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 115092

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	18.02	J	50.0	14.5	mg/Kg		07/28/25 08:37	07/30/25 00:20	1

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QC Sample Results

Client: Crain Environmental
 Project/Site: State J 2 #17

Job ID: 880-60809-1
 SDG: Lea Co. NM

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

Lab Sample ID: MB 880-115092/1-A
Matrix: Solid
Analysis Batch: 115272

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 115092

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		07/28/25 08:37	07/30/25 00:20	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		07/28/25 08:37	07/30/25 00:20	1
Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac			
	%Recovery	Qualifier							
1-Chlorooctane	98		70 - 130	07/28/25 08:37	07/30/25 00:20	1			
o-Terphenyl	104		70 - 130	07/28/25 08:37	07/30/25 00:20	1			

Lab Sample ID: LCS 880-115092/2-A
Matrix: Solid
Analysis Batch: 115272

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 115092

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Diesel Range Organics (Over C10-C28)	1000	969.9		mg/Kg		97	70 - 130
Surrogate	LCS	LCS	Limits				
	%Recovery	Qualifier					
1-Chlorooctane	118		70 - 130				
o-Terphenyl	110		70 - 130				

Lab Sample ID: LCSD 880-115092/3-A
Matrix: Solid
Analysis Batch: 115272

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 115092

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Diesel Range Organics (Over C10-C28)	1000	1031		mg/Kg		103	70 - 130	6	20
Surrogate	LCSD	LCSD	Limits						
	%Recovery	Qualifier							
1-Chlorooctane	99		70 - 130						
o-Terphenyl	110		70 - 130						

Lab Sample ID: 880-60775-A-1-F MS
Matrix: Solid
Analysis Batch: 115272

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 115092

Analyte	Sample	Sample	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	22.3	J B	999	784.1		mg/Kg		76	70 - 130
Diesel Range Organics (Over C10-C28)	<15.1	U	999	815.3		mg/Kg		82	70 - 130
Surrogate	MS	MS	Limits						
	%Recovery	Qualifier							
1-Chlorooctane	98		70 - 130						
o-Terphenyl	90		70 - 130						

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QC Sample Results

Client: Crain Environmental
 Project/Site: State J 2 #17

Job ID: 880-60809-1
 SDG: Lea Co. NM

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

Lab Sample ID: 880-60775-A-1-G MSD
Matrix: Solid
Analysis Batch: 115272

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 115092

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	22.3	J B	999	774.2		mg/Kg		75	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<15.1	U	999	789.2		mg/Kg		79	70 - 130	3	20
Surrogate	MSD	MSD	Limits								
1-Chlorooctane	%Recovery	Qualifier	Limits								
1-Chlorooctane	96		70 - 130								
o-Terphenyl	88		70 - 130								

Lab Sample ID: MB 880-115105/1-A
Matrix: Solid
Analysis Batch: 115272

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 115105

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	20.69	J	50.0	14.5	mg/Kg		07/28/25 09:50	07/29/25 16:14	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		07/28/25 09:50	07/29/25 16:14	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		07/28/25 09:50	07/29/25 16:14	1
Surrogate	MB	MB	Limits		Prepared		Analyzed		Dil Fac
1-Chlorooctane	%Recovery	Qualifier	Limits		Prepared		Analyzed		Dil Fac
1-Chlorooctane	120		70 - 130		07/28/25 09:50		07/29/25 16:14		1
o-Terphenyl	118		70 - 130		07/28/25 09:50		07/29/25 16:14		1

Lab Sample ID: LCS 880-115105/2-A
Matrix: Solid
Analysis Batch: 115272

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 115105

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec	RPD	
							Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	1000	966.8		mg/Kg		97	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	917.1		mg/Kg		92	70 - 130		
Surrogate	LCS	LCS	Limits						
1-Chlorooctane	%Recovery	Qualifier	Limits						
1-Chlorooctane	111		70 - 130						
o-Terphenyl	104		70 - 130						

Lab Sample ID: LCSD 880-115105/3-A
Matrix: Solid
Analysis Batch: 115272

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 115105

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	Limit
							Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	1000	963.3		mg/Kg		96	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	1000	975.5		mg/Kg		98	70 - 130	6	20

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QC Sample Results

Client: Crain Environmental
 Project/Site: State J 2 #17

Job ID: 880-60809-1
 SDG: Lea Co. NM

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

Lab Sample ID: LCSD 880-115105/3-A
 Matrix: Solid
 Analysis Batch: 115272

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 115105

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane	93		70 - 130
o-Terphenyl	103		70 - 130

Lab Sample ID: 880-60809-6 MS
 Matrix: Solid
 Analysis Batch: 115272

Client Sample ID: S-4
 Prep Type: Total/NA
 Prep Batch: 115105

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier					
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	999	829.5		mg/Kg		83		70 - 130
Diesel Range Organics (Over C10-C28)	49.5	J	999	922.0		mg/Kg		87		70 - 130

Surrogate	MS		Limits
	%Recovery	Qualifier	
1-Chlorooctane	95		70 - 130
o-Terphenyl	100		70 - 130

Lab Sample ID: 880-60809-6 MSD
 Matrix: Solid
 Analysis Batch: 115272

Client Sample ID: S-4
 Prep Type: Total/NA
 Prep Batch: 115105

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	Limits	RPD	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier								
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	999	846.6		mg/Kg		85		70 - 130	2		20
Diesel Range Organics (Over C10-C28)	49.5	J	999	938.0		mg/Kg		89		70 - 130	2		20

Surrogate	MSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane	95		70 - 130
o-Terphenyl	101		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-115119/1-A
 Matrix: Solid
 Analysis Batch: 115158

Client Sample ID: Method Blank
 Prep Type: Soluble

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	<0.395	U	10.0	0.395	mg/Kg			07/28/25 14:20	1

Lab Sample ID: LCS 880-115119/2-A
 Matrix: Solid
 Analysis Batch: 115158

Client Sample ID: Lab Control Sample
 Prep Type: Soluble

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec	Limits
		Result	Qualifier					
Chloride	250	246.9		mg/Kg		99		90 - 110

QC Sample Results

Client: Crain Environmental
 Project/Site: State J 2 #17

Job ID: 880-60809-1
 SDG: Lea Co. NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-115119/3-A
 Matrix: Solid
 Analysis Batch: 115158

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	250.6		mg/Kg		100	90 - 110	1	20

Lab Sample ID: 880-60775-A-1-I MS
 Matrix: Solid
 Analysis Batch: 115158

Client Sample ID: Matrix Spike
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	4.47	J	252	261.5		mg/Kg		102	90 - 110

Lab Sample ID: 880-60775-A-1-J MSD
 Matrix: Solid
 Analysis Batch: 115158

Client Sample ID: Matrix Spike Duplicate
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	4.47	J	252	263.8		mg/Kg		103	90 - 110	1	20

Lab Sample ID: MB 880-115124/1-A
 Matrix: Solid
 Analysis Batch: 115189

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			07/28/25 17:45	1

Lab Sample ID: LCS 880-115124/2-A
 Matrix: Solid
 Analysis Batch: 115189

Client Sample ID: Lab Control Sample
 Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	238.1		mg/Kg		95	90 - 110

Lab Sample ID: LCSD 880-115124/3-A
 Matrix: Solid
 Analysis Batch: 115189

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	238.4		mg/Kg		95	90 - 110	0	20

Lab Sample ID: 880-60809-3 MS
 Matrix: Solid
 Analysis Batch: 115189

Client Sample ID: S-1
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	1600	F1	1260	3282	F1	mg/Kg		134	90 - 110

Lab Sample ID: 880-60809-3 MSD
 Matrix: Solid
 Analysis Batch: 115189

Client Sample ID: S-1
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1600	F1	1260	3292	F1	mg/Kg		135	90 - 110	0	20

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QC Association Summary

Client: Crain Environmental
 Project/Site: State J 2 #17

Job ID: 880-60809-1
 SDG: Lea Co. NM

GC VOA

Prep Batch: 114949

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-114949/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 115087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-60809-1	B-1	Total/NA	Solid	8021B	115100
880-60809-2	B-2	Total/NA	Solid	8021B	115100
880-60809-3	S-1	Total/NA	Solid	8021B	115100
880-60809-4	S-2	Total/NA	Solid	8021B	115100
880-60809-5	S-3	Total/NA	Solid	8021B	115100
880-60809-6	S-4	Total/NA	Solid	8021B	115100
880-60809-7	S-5	Total/NA	Solid	8021B	115100
880-60809-8	S-6	Total/NA	Solid	8021B	115100
880-60809-9	S-7	Total/NA	Solid	8021B	115100
880-60809-10	S-8	Total/NA	Solid	8021B	115100
880-60809-11	S-9	Total/NA	Solid	8021B	115100
MB 880-114949/5-A	Method Blank	Total/NA	Solid	8021B	114949
MB 880-115100/5-A	Method Blank	Total/NA	Solid	8021B	115100
LCS 880-115100/1-A	Lab Control Sample	Total/NA	Solid	8021B	115100
LCSD 880-115100/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	115100
880-60809-1 MS	B-1	Total/NA	Solid	8021B	115100
880-60809-1 MSD	B-1	Total/NA	Solid	8021B	115100

Prep Batch: 115100

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-60809-1	B-1	Total/NA	Solid	5035	
880-60809-2	B-2	Total/NA	Solid	5035	
880-60809-3	S-1	Total/NA	Solid	5035	
880-60809-4	S-2	Total/NA	Solid	5035	
880-60809-5	S-3	Total/NA	Solid	5035	
880-60809-6	S-4	Total/NA	Solid	5035	
880-60809-7	S-5	Total/NA	Solid	5035	
880-60809-8	S-6	Total/NA	Solid	5035	
880-60809-9	S-7	Total/NA	Solid	5035	
880-60809-10	S-8	Total/NA	Solid	5035	
880-60809-11	S-9	Total/NA	Solid	5035	
MB 880-115100/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-115100/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-115100/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-60809-1 MS	B-1	Total/NA	Solid	5035	
880-60809-1 MSD	B-1	Total/NA	Solid	5035	

Analysis Batch: 115306

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-60809-1	B-1	Total/NA	Solid	Total BTEX	
880-60809-2	B-2	Total/NA	Solid	Total BTEX	
880-60809-3	S-1	Total/NA	Solid	Total BTEX	
880-60809-4	S-2	Total/NA	Solid	Total BTEX	
880-60809-5	S-3	Total/NA	Solid	Total BTEX	
880-60809-6	S-4	Total/NA	Solid	Total BTEX	
880-60809-7	S-5	Total/NA	Solid	Total BTEX	
880-60809-8	S-6	Total/NA	Solid	Total BTEX	

Eurofins Midland

QC Association Summary

Client: Crain Environmental
Project/Site: State J 2 #17Job ID: 880-60809-1
SDG: Lea Co. NM

GC VOA (Continued)

Analysis Batch: 115306 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-60809-9	S-7	Total/NA	Solid	Total BTEX	
880-60809-10	S-8	Total/NA	Solid	Total BTEX	
880-60809-11	S-9	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 115092

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-60809-1	B-1	Total/NA	Solid	8015NM Prep	
880-60809-2	B-2	Total/NA	Solid	8015NM Prep	
880-60809-3	S-1	Total/NA	Solid	8015NM Prep	
880-60809-4	S-2	Total/NA	Solid	8015NM Prep	
880-60809-5	S-3	Total/NA	Solid	8015NM Prep	
MB 880-115092/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-115092/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCS 880-115092/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-60775-A-1-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-60775-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 115105

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-60809-6	S-4	Total/NA	Solid	8015NM Prep	
880-60809-7	S-5	Total/NA	Solid	8015NM Prep	
880-60809-8	S-6	Total/NA	Solid	8015NM Prep	
880-60809-9	S-7	Total/NA	Solid	8015NM Prep	
880-60809-10	S-8	Total/NA	Solid	8015NM Prep	
880-60809-11	S-9	Total/NA	Solid	8015NM Prep	
MB 880-115105/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-115105/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCS 880-115105/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-60809-6 MS	S-4	Total/NA	Solid	8015NM Prep	
880-60809-6 MSD	S-4	Total/NA	Solid	8015NM Prep	

Analysis Batch: 115272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-60809-1	B-1	Total/NA	Solid	8015B NM	115092
880-60809-2	B-2	Total/NA	Solid	8015B NM	115092
880-60809-3	S-1	Total/NA	Solid	8015B NM	115092
880-60809-4	S-2	Total/NA	Solid	8015B NM	115092
880-60809-5	S-3	Total/NA	Solid	8015B NM	115092
880-60809-6	S-4	Total/NA	Solid	8015B NM	115105
880-60809-7	S-5	Total/NA	Solid	8015B NM	115105
880-60809-8	S-6	Total/NA	Solid	8015B NM	115105
880-60809-9	S-7	Total/NA	Solid	8015B NM	115105
880-60809-10	S-8	Total/NA	Solid	8015B NM	115105
880-60809-11	S-9	Total/NA	Solid	8015B NM	115105
MB 880-115092/1-A	Method Blank	Total/NA	Solid	8015B NM	115092
MB 880-115105/1-A	Method Blank	Total/NA	Solid	8015B NM	115105
LCS 880-115092/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	115092
LCS 880-115105/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	115105
LCS 880-115092/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	115092

Eurofins Midland

QC Association Summary

Client: Crain Environmental
Project/Site: State J 2 #17Job ID: 880-60809-1
SDG: Lea Co. NM

GC Semi VOA (Continued)

Analysis Batch: 115272 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-115105/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	115105
880-60775-A-1-F MS	Matrix Spike	Total/NA	Solid	8015B NM	115092
880-60775-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	115092
880-60809-6 MS	S-4	Total/NA	Solid	8015B NM	115105
880-60809-6 MSD	S-4	Total/NA	Solid	8015B NM	115105

Analysis Batch: 115383

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-60809-1	B-1	Total/NA	Solid	8015 NM	
880-60809-2	B-2	Total/NA	Solid	8015 NM	
880-60809-3	S-1	Total/NA	Solid	8015 NM	
880-60809-4	S-2	Total/NA	Solid	8015 NM	
880-60809-5	S-3	Total/NA	Solid	8015 NM	
880-60809-6	S-4	Total/NA	Solid	8015 NM	
880-60809-7	S-5	Total/NA	Solid	8015 NM	
880-60809-8	S-6	Total/NA	Solid	8015 NM	
880-60809-9	S-7	Total/NA	Solid	8015 NM	
880-60809-10	S-8	Total/NA	Solid	8015 NM	
880-60809-11	S-9	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 115119

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-60809-1	B-1	Soluble	Solid	DI Leach	
880-60809-2	B-2	Soluble	Solid	DI Leach	
MB 880-115119/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-115119/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-115119/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-60775-A-1-I MS	Matrix Spike	Soluble	Solid	DI Leach	
880-60775-A-1-J MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 115124

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-60809-3	S-1	Soluble	Solid	DI Leach	
880-60809-4	S-2	Soluble	Solid	DI Leach	
880-60809-5	S-3	Soluble	Solid	DI Leach	
880-60809-6	S-4	Soluble	Solid	DI Leach	
880-60809-7	S-5	Soluble	Solid	DI Leach	
880-60809-8	S-6	Soluble	Solid	DI Leach	
880-60809-9	S-7	Soluble	Solid	DI Leach	
880-60809-10	S-8	Soluble	Solid	DI Leach	
880-60809-11	S-9	Soluble	Solid	DI Leach	
MB 880-115124/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-115124/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-115124/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-60809-3 MS	S-1	Soluble	Solid	DI Leach	
880-60809-3 MSD	S-1	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-60809-1
SDG: Lea Co. NM

HPLC/IC

Analysis Batch: 115158

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-60809-1	B-1	Soluble	Solid	300.0	115119
880-60809-2	B-2	Soluble	Solid	300.0	115119
MB 880-115119/1-A	Method Blank	Soluble	Solid	300.0	115119
LCS 880-115119/2-A	Lab Control Sample	Soluble	Solid	300.0	115119
LCSD 880-115119/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	115119
880-60775-A-1-I MS	Matrix Spike	Soluble	Solid	300.0	115119
880-60775-A-1-J MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	115119

Analysis Batch: 115189

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-60809-3	S-1	Soluble	Solid	300.0	115124
880-60809-4	S-2	Soluble	Solid	300.0	115124
880-60809-5	S-3	Soluble	Solid	300.0	115124
880-60809-6	S-4	Soluble	Solid	300.0	115124
880-60809-7	S-5	Soluble	Solid	300.0	115124
880-60809-8	S-6	Soluble	Solid	300.0	115124
880-60809-9	S-7	Soluble	Solid	300.0	115124
880-60809-10	S-8	Soluble	Solid	300.0	115124
880-60809-11	S-9	Soluble	Solid	300.0	115124
MB 880-115124/1-A	Method Blank	Soluble	Solid	300.0	115124
LCS 880-115124/2-A	Lab Control Sample	Soluble	Solid	300.0	115124
LCSD 880-115124/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	115124
880-60809-3 MS	S-1	Soluble	Solid	300.0	115124
880-60809-3 MSD	S-1	Soluble	Solid	300.0	115124

Lab Chronicle

Client: Crain Environmental
 Project/Site: State J 2 #17

Job ID: 880-60809-1
 SDG: Lea Co. NM

Client Sample ID: B-1

Lab Sample ID: 880-60809-1

Date Collected: 07/24/25 11:00

Matrix: Solid

Date Received: 07/25/25 13:05

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	115100	07/28/25 09:44	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	115087	07/28/25 23:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			115306	07/28/25 23:00	SA	EET MID
Total/NA	Analysis	8015 NM		1			115383	07/30/25 05:57	SA	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	115092	07/28/25 08:41	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	115272	07/30/25 05:57	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	115119	07/28/25 10:29	SI	EET MID
Soluble	Analysis	300.0		1			115158	07/28/25 18:01	CS	EET MID

Client Sample ID: B-2

Lab Sample ID: 880-60809-2

Date Collected: 07/24/25 11:04

Matrix: Solid

Date Received: 07/25/25 13:05

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	115100	07/28/25 09:44	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	115087	07/28/25 23:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			115306	07/28/25 23:20	SA	EET MID
Total/NA	Analysis	8015 NM		1			115383	07/30/25 06:13	SA	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	115092	07/28/25 08:41	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	115272	07/30/25 06:13	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	115119	07/28/25 10:29	SI	EET MID
Soluble	Analysis	300.0		1			115158	07/28/25 18:09	CS	EET MID

Client Sample ID: S-1

Lab Sample ID: 880-60809-3

Date Collected: 07/24/25 11:08

Matrix: Solid

Date Received: 07/25/25 13:05

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	115100	07/28/25 09:44	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	115087	07/28/25 23:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			115306	07/28/25 23:41	SA	EET MID
Total/NA	Analysis	8015 NM		1			115383	07/30/25 06:30	SA	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	115092	07/28/25 08:41	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	115272	07/30/25 06:30	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	115124	07/28/25 10:33	SI	EET MID
Soluble	Analysis	300.0		5			115189	07/28/25 18:02	CS	EET MID

Client Sample ID: S-2

Lab Sample ID: 880-60809-4

Date Collected: 07/24/25 11:10

Matrix: Solid

Date Received: 07/25/25 13:05

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	115100	07/28/25 09:44	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	115087	07/29/25 00:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			115306	07/29/25 00:01	SA	EET MID

Eurofins Midland

Lab Chronicle

Client: Crain Environmental
 Project/Site: State J 2 #17

Job ID: 880-60809-1
 SDG: Lea Co. NM

Client Sample ID: S-2

Lab Sample ID: 880-60809-4

Date Collected: 07/24/25 11:10

Matrix: Solid

Date Received: 07/25/25 13:05

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			115383	07/30/25 06:45	SA	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	115092	07/28/25 08:41	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	115272	07/30/25 06:45	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	115124	07/28/25 10:33	SI	EET MID
Soluble	Analysis	300.0		1			115189	07/28/25 18:19	CS	EET MID

Client Sample ID: S-3

Lab Sample ID: 880-60809-5

Date Collected: 07/24/25 11:14

Matrix: Solid

Date Received: 07/25/25 13:05

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	115100	07/28/25 09:44	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	115087	07/29/25 00:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			115306	07/29/25 00:22	SA	EET MID
Total/NA	Analysis	8015 NM		1			115383	07/30/25 07:02	SA	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	115092	07/28/25 08:41	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	115272	07/30/25 07:02	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	115124	07/28/25 10:33	SI	EET MID
Soluble	Analysis	300.0		5			115189	07/28/25 18:25	CS	EET MID

Client Sample ID: S-4

Lab Sample ID: 880-60809-6

Date Collected: 07/24/25 11:18

Matrix: Solid

Date Received: 07/25/25 13:05

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	115100	07/28/25 09:44	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	115087	07/29/25 00:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			115306	07/29/25 00:42	SA	EET MID
Total/NA	Analysis	8015 NM		1			115383	07/29/25 17:12	SA	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	115105	07/28/25 09:50	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	115272	07/29/25 17:12	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	115124	07/28/25 10:33	SI	EET MID
Soluble	Analysis	300.0		1			115189	07/28/25 18:30	CS	EET MID

Client Sample ID: S-5

Lab Sample ID: 880-60809-7

Date Collected: 07/24/25 11:21

Matrix: Solid

Date Received: 07/25/25 13:05

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	115100	07/28/25 09:44	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	115087	07/29/25 01:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			115306	07/29/25 01:03	SA	EET MID
Total/NA	Analysis	8015 NM		1			115383	07/29/25 18:00	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	115105	07/28/25 09:50	EL	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	115272	07/29/25 18:00	TKC	EET MID

Eurofins Midland

Lab Chronicle

Client: Crain Environmental
 Project/Site: State J 2 #17

Job ID: 880-60809-1
 SDG: Lea Co. NM

Client Sample ID: S-5

Lab Sample ID: 880-60809-7

Date Collected: 07/24/25 11:21

Matrix: Solid

Date Received: 07/25/25 13:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	115124	07/28/25 10:33	SI	EET MID
Soluble	Analysis	300.0		1			115189	07/28/25 18:36	CS	EET MID

Client Sample ID: S-6

Lab Sample ID: 880-60809-8

Date Collected: 07/24/25 11:25

Matrix: Solid

Date Received: 07/25/25 13:05

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	115100	07/28/25 09:44	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	115087	07/29/25 01:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			115306	07/29/25 01:23	SA	EET MID
Total/NA	Analysis	8015 NM		1			115383	07/29/25 18:15	SA	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	115105	07/28/25 09:50	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	115272	07/29/25 18:15	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	115124	07/28/25 10:33	SI	EET MID
Soluble	Analysis	300.0		1			115189	07/28/25 18:53	CS	EET MID

Client Sample ID: S-7

Lab Sample ID: 880-60809-9

Date Collected: 07/24/25 11:29

Matrix: Solid

Date Received: 07/25/25 13:05

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	115100	07/28/25 09:44	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	115087	07/29/25 01:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			115306	07/29/25 01:44	SA	EET MID
Total/NA	Analysis	8015 NM		1			115383	07/29/25 18:31	SA	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	115105	07/28/25 09:50	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	115272	07/29/25 18:31	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	115124	07/28/25 10:33	SI	EET MID
Soluble	Analysis	300.0		1			115189	07/28/25 18:58	CS	EET MID

Client Sample ID: S-8

Lab Sample ID: 880-60809-10

Date Collected: 07/24/25 11:34

Matrix: Solid

Date Received: 07/25/25 13:05

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	115100	07/28/25 09:44	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	115087	07/29/25 02:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			115306	07/29/25 02:04	SA	EET MID
Total/NA	Analysis	8015 NM		1			115383	07/29/25 18:47	SA	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	115105	07/28/25 09:50	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	115272	07/29/25 18:47	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	115124	07/28/25 10:33	SI	EET MID
Soluble	Analysis	300.0		1			115189	07/28/25 19:04	CS	EET MID

Eurofins Midland

Lab Chronicle

Client: Crain Environmental
 Project/Site: State J 2 #17

Job ID: 880-60809-1
 SDG: Lea Co. NM

Client Sample ID: S-9

Lab Sample ID: 880-60809-11

Date Collected: 07/24/25 11:39

Matrix: Solid

Date Received: 07/25/25 13:05

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	115100	07/28/25 09:44	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	115087	07/29/25 03:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			115306	07/29/25 03:38	SA	EET MID
Total/NA	Analysis	8015 NM		1			115383	07/29/25 19:03	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	115105	07/28/25 09:50	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	115272	07/29/25 19:03	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	115124	07/28/25 10:33	SI	EET MID
Soluble	Analysis	300.0		1			115189	07/28/25 19:10	CS	EET MID

Laboratory References:

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

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Accreditation/Certification Summary

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-60809-1
SDG: Lea Co. NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-26

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

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

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Method Summary

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-60809-1
SDG: Lea Co. NM

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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



Sample Summary

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-60809-1
SDG: Lea Co. NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-60809-1	B-1	Solid	07/24/25 11:00	07/25/25 13:05	6'
880-60809-2	B-2	Solid	07/24/25 11:04	07/25/25 13:05	9'
880-60809-3	S-1	Solid	07/24/25 11:08	07/25/25 13:05	0-4'
880-60809-4	S-2	Solid	07/24/25 11:10	07/25/25 13:05	0-4'
880-60809-5	S-3	Solid	07/24/25 11:14	07/25/25 13:05	0-4'
880-60809-6	S-4	Solid	07/24/25 11:18	07/25/25 13:05	0-4'
880-60809-7	S-5	Solid	07/24/25 11:21	07/25/25 13:05	0-4'
880-60809-8	S-6	Solid	07/24/25 11:25	07/25/25 13:05	0-4'
880-60809-9	S-7	Solid	07/24/25 11:29	07/25/25 13:05	0-4'
880-60809-10	S-8	Solid	07/24/25 11:34	07/25/25 13:05	0-4'
880-60809-11	S-9	Solid	07/24/25 11:39	07/25/25 13:05	0-4'

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880-60809 Chain of Custody

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Chain of Custody

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

Environment Testing
 Xenco



Project Manager: <i>Linda Crain</i>	Bill to: (if different) <i>Leasa Hale</i>
Company Name: <i>Crain Environmental</i>	Company Name: <i>SWR</i>
Address: <i>2925 E. 17th St.</i>	Address: <i>P.O. Box 53570</i>
City, State ZIP: <i>Odessa, TX 79761</i>	City, State ZIP: <i>Midland, TX 79710</i>
Phone: <i>(575) 441-7244</i>	Email: <i>Linda.Crain@gmail.com</i>

Project Name: <i>State J 2 #17</i>	Turn Around <input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush	Pres. Code
P Project Number: <i>NSAP0225252743</i>	Due Date: TAT starts the day received by the lab, if received by 4:30pm	Parameters
Project Location: <i>Lea Co., NM</i>	Temp Blank: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	# of Cont
Sampler's Name: <i>Linda Crain</i>	Thermometer ID: <i>FR8</i>	
PO #:	Correction Factor: <i>-1.5</i>	
	Temperature Reading: <i>1.5</i>	
SAMPLE RECEIPT		
Samples Received Intact:	Wet Ice: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Cooler Custody Seals:	Corrected Temperature: <i>1.4</i>	
Sample Custody Seals:		
Total Containers:		

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	Parameters	ANALYSIS REQUEST	Preservative Codes	Sample Comments
B-1	S	7/24/25	1100	6'	C			None: NO Cool: Cool HCL: HC H ₂ SO ₄ : H ₂ H ₃ PO ₄ : HP NaHSO ₄ : NABIS Na ₂ S ₂ O ₃ : NaSO ₃ Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SACP	
B-2			1104	9'					
S-1			1108	0-4'					
S-2			1110						
S-3			1114						
S-4			1118						
S-5			1121						
S-6			1125						
S-7			1129						
S-8			1134						

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn
 Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

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

Relinquished by: (Signature) <i>Linda Crain</i>	Received by: (Signature) <i>Beth Allen</i>	Date/Time <i>7/25/25 1305</i>
1		
3		
5		

Revised Date: 08/25/2020 Rev. 20032



Chain of Custody

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

Environment Testing
 Xenco



Work Order No: 805

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

Project Name: <i>ARU # 17H</i>	Turn Around	Pres. Code	ANALYSIS REQUEST	Preservative Codes
Project Number: <i>-</i>	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush			None: NO DI Water: H ₂ O
Project Location: <i>Lpa Co. NM</i>	Due Date:			Cool: Cool MeOH: Me
Sampler's Name: <i>Cindy Crain</i>	TAT starts the day received by the lab, if received by 4:30pm			HCL: HC HNO: HN
PO #:				H ₂ SO: H ₂ NaOH: Na

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters	Sample Comments
TS-1	S	7/24/25	1300	0-16"	C	1		
TS-2			1305					
TS-3			1310					
TS-4			1315					
TS-5			1320					
TS-6			1325					
TS-7			1330					
TS-8			1335					
TS-9			1340					
TS-10			1345					

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn
 Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>Cindy Crain</i>	<i>Sgt...</i>	7/25/25 1305 ²			

Revised Date: 08/25/2020 Rev. 2020.2



Login Sample Receipt Checklist

Client: Crain Environmental

Job Number: 880-60809-1

SDG Number: Lea Co. NM

Login Number: 60809

List Number: 1

Creator: Vasquez, Julisa

List Source: Eurofins Midland

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

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Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 8/18/2025 10:43:25 AM

JOB DESCRIPTION

State J 2 #17
 Lea County, NM

JOB NUMBER

880-61299-1

Eurofins Midland
 1211 W. Florida Ave
 Midland TX 79701

See page two for job notes and contact information.



Eurofins Midland

Job Notes

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

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

Authorization



Generated
8/18/2025 10:43:25 AM

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

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Client: Crain Environmental
Project/Site: State J 2 #17

Laboratory Job ID: 880-61299-1
SDG: Lea County, NM

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Definitions/Glossary

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-61299-1
SDG: Lea County, NM

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Case Narrative

Client: Crain Environmental
Project: State J 2 #17

Job ID: 880-61299-1

Job ID: 880-61299-1

Eurofins Midland

Job Narrative 880-61299-1

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

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

Receipt

The samples were received on 8/8/2025 2:09 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -1.1°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: S-7 (880-61299-1), S-8 (880-61299-2) and B-1 (880-61299-3).

GC VOA

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

Diesel Range Organics

Method 8015MOD_NM: The method blank for preparation batch 880-116251 and analytical batch 880-116852 contained Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

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

HPLC/IC

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-116490 and analytical batch 880-116529 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

Eurofins Midland

Client Sample Results

Client: Crain Environmental
 Project/Site: State J 2 #17

Job ID: 880-61299-1
 SDG: Lea County, NM

Client Sample ID: S-7

Lab Sample ID: 880-61299-1

Date Collected: 08/07/25 11:45

Matrix: Solid

Date Received: 08/08/25 14:09

Sample Depth: 0-6.5'

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		08/12/25 11:26	08/12/25 20:20	1
Toluene	<0.00198	U	0.00198	0.00198	mg/Kg		08/12/25 11:26	08/12/25 20:20	1
Ethylbenzene	<0.00108	U	0.00198	0.00108	mg/Kg		08/12/25 11:26	08/12/25 20:20	1
m-Xylene & p-Xylene	<0.00226	U	0.00396	0.00226	mg/Kg		08/12/25 11:26	08/12/25 20:20	1
o-Xylene	<0.00157	U	0.00198	0.00157	mg/Kg		08/12/25 11:26	08/12/25 20:20	1
Xylenes, Total	<0.00226	U	0.00396	0.00226	mg/Kg		08/12/25 11:26	08/12/25 20:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130	08/12/25 11:26	08/12/25 20:20	1
1,4-Difluorobenzene (Surr)	108		70 - 130	08/12/25 11:26	08/12/25 20:20	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			08/12/25 20:20	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			08/17/25 01:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		08/08/25 13:20	08/17/25 01:48	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		08/08/25 13:20	08/17/25 01:48	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		08/08/25 13:20	08/17/25 01:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130	08/08/25 13:20	08/17/25 01:48	1
o-Terphenyl	108		70 - 130	08/08/25 13:20	08/17/25 01:48	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.13	J F1	9.92	0.392	mg/Kg			08/13/25 15:51	1

Client Sample ID: S-8

Lab Sample ID: 880-61299-2

Date Collected: 08/07/25 11:49

Matrix: Solid

Date Received: 08/08/25 14:09

Sample Depth: 0-6.5'

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		08/12/25 11:26	08/12/25 20:40	1
Toluene	<0.00201	U	0.00201	0.00201	mg/Kg		08/12/25 11:26	08/12/25 20:40	1
Ethylbenzene	<0.00109	U	0.00201	0.00109	mg/Kg		08/12/25 11:26	08/12/25 20:40	1
m-Xylene & p-Xylene	<0.00229	U	0.00402	0.00229	mg/Kg		08/12/25 11:26	08/12/25 20:40	1
o-Xylene	<0.00159	U	0.00201	0.00159	mg/Kg		08/12/25 11:26	08/12/25 20:40	1
Xylenes, Total	<0.00229	U	0.00402	0.00229	mg/Kg		08/12/25 11:26	08/12/25 20:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	08/12/25 11:26	08/12/25 20:40	1

Eurofins Midland

Client Sample Results

Client: Crain Environmental
 Project/Site: State J 2 #17

Job ID: 880-61299-1
 SDG: Lea County, NM

Client Sample ID: S-8

Lab Sample ID: 880-61299-2

Date Collected: 08/07/25 11:49

Matrix: Solid

Date Received: 08/08/25 14:09

Sample Depth: 0-6.5'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	105		70 - 130	08/12/25 11:26	08/12/25 20:40	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			08/12/25 20:40	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			08/17/25 02:05	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		08/08/25 13:20	08/17/25 02:05	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.8	15.1	mg/Kg		08/08/25 13:20	08/17/25 02:05	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		08/08/25 13:20	08/17/25 02:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130	08/08/25 13:20	08/17/25 02:05	1
o-Terphenyl	111		70 - 130	08/08/25 13:20	08/17/25 02:05	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.72	J	9.92	0.392	mg/Kg			08/13/25 16:08	1

Client Sample ID: B-1

Lab Sample ID: 880-61299-3

Date Collected: 08/07/25 11:53

Matrix: Solid

Date Received: 08/08/25 14:09

Sample Depth: 6.5'

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		08/12/25 11:26	08/12/25 21:01	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		08/12/25 11:26	08/12/25 21:01	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		08/12/25 11:26	08/12/25 21:01	1
m-Xylene & p-Xylene	<0.00227	U	0.00398	0.00227	mg/Kg		08/12/25 11:26	08/12/25 21:01	1
o-Xylene	<0.00157	U	0.00199	0.00157	mg/Kg		08/12/25 11:26	08/12/25 21:01	1
Xylenes, Total	<0.00227	U	0.00398	0.00227	mg/Kg		08/12/25 11:26	08/12/25 21:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130	08/12/25 11:26	08/12/25 21:01	1
1,4-Difluorobenzene (Surr)	109		70 - 130	08/12/25 11:26	08/12/25 21:01	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00227	U	0.00398	0.00227	mg/Kg			08/12/25 21:01	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	J	49.7	15.0	mg/Kg			08/17/25 02:35	1

Eurofins Midland

Client Sample Results

Client: Crain Environmental
 Project/Site: State J 2 #17

Job ID: 880-61299-1
 SDG: Lea County, NM

Client Sample ID: B-1

Lab Sample ID: 880-61299-3

Date Collected: 08/07/25 11:53

Matrix: Solid

Date Received: 08/08/25 14:09

Sample Depth: 6.5'

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	<14.4	U	49.7	14.4	mg/Kg		08/08/25 13:20	08/17/25 02:35	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.7	15.0	mg/Kg		08/08/25 13:20	08/17/25 02:35	1
Oil Range Organics (Over C28-C36)	15.1	J	49.7	15.0	mg/Kg		08/08/25 13:20	08/17/25 02:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130	08/08/25 13:20	08/17/25 02:35	1
o-Terphenyl	116		70 - 130	08/08/25 13:20	08/17/25 02:35	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.00	J	9.96	0.393	mg/Kg			08/13/25 16:14	1

Surrogate Summary

Client: Crain Environmental
 Project/Site: State J 2 #17

Job ID: 880-61299-1
 SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
880-61299-1	S-7	124	108
880-61299-2	S-8	116	105
880-61299-3	B-1	129	109
890-8615-A-21-B MS	Matrix Spike	103	95
890-8615-A-21-C MSD	Matrix Spike Duplicate	103	115
LCS 880-116494/1-A	Lab Control Sample	95	97
LCSD 880-116494/2-A	Lab Control Sample Dup	97	104
MB 880-116494/5-A	Method Blank	101	101

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	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
880-61288-A-5-B MS	Matrix Spike	103	104
880-61288-A-5-C MSD	Matrix Spike Duplicate	120	122
880-61299-1	S-7	96	108
880-61299-2	S-8	98	111
880-61299-3	B-1	102	116
LCS 880-116251/2-A	Lab Control Sample	116	129
LCSD 880-116251/3-A	Lab Control Sample Dup	119	121
MB 880-116251/1-A	Method Blank	90	104

Surrogate Legend
 1CO = 1-Chlorooctane
 OTPH = o-Terphenyl

QC Sample Results

Client: Crain Environmental
 Project/Site: State J 2 #17

Job ID: 880-61299-1
 SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-116494/5-A
 Matrix: Solid
 Analysis Batch: 116437

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 116494

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		08/12/25 11:26	08/12/25 12:49	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		08/12/25 11:26	08/12/25 12:49	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		08/12/25 11:26	08/12/25 12:49	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		08/12/25 11:26	08/12/25 12:49	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		08/12/25 11:26	08/12/25 12:49	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		08/12/25 11:26	08/12/25 12:49	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	08/12/25 11:26	08/12/25 12:49	1
1,4-Difluorobenzene (Surr)	101		70 - 130	08/12/25 11:26	08/12/25 12:49	1

Lab Sample ID: LCS 880-116494/1-A
 Matrix: Solid
 Analysis Batch: 116437

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 116494

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09449		mg/Kg		94	70 - 130
Toluene	0.100	0.08710		mg/Kg		87	70 - 130
Ethylbenzene	0.100	0.09855		mg/Kg		99	70 - 130
m-Xylene & p-Xylene	0.200	0.1735		mg/Kg		87	70 - 130
o-Xylene	0.100	0.09002		mg/Kg		90	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: LCSD 880-116494/2-A
 Matrix: Solid
 Analysis Batch: 116437

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 116494

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.09780		mg/Kg		98	70 - 130	3	35
Toluene	0.100	0.08990		mg/Kg		90	70 - 130	3	35
Ethylbenzene	0.100	0.1021		mg/Kg		102	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.1811		mg/Kg		91	70 - 130	4	35
o-Xylene	0.100	0.09256		mg/Kg		93	70 - 130	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: 890-8615-A-21-B MS
 Matrix: Solid
 Analysis Batch: 116437

Client Sample ID: Matrix Spike
 Prep Type: Total/NA
 Prep Batch: 116494

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00139	U	0.100	0.08253		mg/Kg		83	70 - 130
Toluene	<0.00200	U	0.100	0.07669		mg/Kg		77	70 - 130

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QC Sample Results

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-61299-1
SDG: Lea County, NM

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

Lab Sample ID: 890-8615-A-21-B MS

Client Sample ID: Matrix Spike

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 116437

Prep Batch: 116494

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	Limits
	Result	Qualifier		Result	Qualifier					
Ethylbenzene	<0.00109	U	0.100	0.08415		mg/Kg		84		70 - 130
m-Xylene & p-Xylene	<0.00228	U	0.200	0.1494		mg/Kg		75		70 - 130
o-Xylene	<0.00158	U	0.100	0.07545		mg/Kg		75		70 - 130

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: 890-8615-A-21-C MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 116437

Prep Batch: 116494

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	Limits	RPD	RPD
	Result	Qualifier		Result	Qualifier						Limit	
Benzene	<0.00139	U	0.100	0.09458		mg/Kg		95		70 - 130	14	35
Toluene	<0.00200	U	0.100	0.08524		mg/Kg		85		70 - 130	11	35
Ethylbenzene	<0.00109	U	0.100	0.09506		mg/Kg		95		70 - 130	12	35
m-Xylene & p-Xylene	<0.00228	U	0.200	0.1684		mg/Kg		84		70 - 130	12	35
o-Xylene	<0.00158	U	0.100	0.08552		mg/Kg		86		70 - 130	13	35

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	115		70 - 130

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

Lab Sample ID: MB 880-116251/1-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 116852

Prep Batch: 116251

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		08/08/25 13:20	08/16/25 20:20	1
Diesel Range Organics (Over C10-C28)	15.90	J	50.0	15.1	mg/Kg		08/08/25 13:20	08/16/25 20:20	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		08/08/25 13:20	08/16/25 20:20	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1-Chlorooctane	90		70 - 130	08/08/25 13:20	08/16/25 20:20	1
o-Terphenyl	104		70 - 130	08/08/25 13:20	08/16/25 20:20	1

Lab Sample ID: LCS 880-116251/2-A

Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 116852

Prep Batch: 116251

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec	Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1170		mg/Kg		117		70 - 130
Diesel Range Organics (Over C10-C28)	1000	1054		mg/Kg		105		70 - 130

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QC Sample Results

Client: Crain Environmental
 Project/Site: State J 2 #17

Job ID: 880-61299-1
 SDG: Lea County, NM

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

Lab Sample ID: LCS 880-116251/2-A
Matrix: Solid
Analysis Batch: 116852

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 116251

Surrogate	LCS		Limits
	%Recovery	Qualifier	
1-Chlorooctane	116		70 - 130
o-Terphenyl	129		70 - 130

Lab Sample ID: LCSD 880-116251/3-A
Matrix: Solid
Analysis Batch: 116852

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 116251

Analyte	Spike Added	LCSD		Unit	D	%Rec	%Rec		RPD	Limit
		Result	Qualifier				Limits	RPD		
Gasoline Range Organics (GRO)-C6-C10	1000	1152		mg/Kg		115	70 - 130	2	20	
Diesel Range Organics (Over C10-C28)	1000	1084		mg/Kg		108	70 - 130	3	20	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane	119		70 - 130
o-Terphenyl	121		70 - 130

Lab Sample ID: 880-61288-A-5-B MS
Matrix: Solid
Analysis Batch: 116852

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 116251

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	%Rec	%Rec	
				Result	Qualifier				Limits	RPD
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	999	1005		mg/Kg		101	70 - 130	
Diesel Range Organics (Over C10-C28)	<15.1	U	999	880.1		mg/Kg		88	70 - 130	

Surrogate	MS		Limits
	%Recovery	Qualifier	
1-Chlorooctane	103		70 - 130
o-Terphenyl	104		70 - 130

Lab Sample ID: 880-61288-A-5-C MSD
Matrix: Solid
Analysis Batch: 116852

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 116251

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD		Unit	D	%Rec	%Rec		RPD	Limit
				Result	Qualifier				Limits	RPD		
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	999	1189		mg/Kg		119	70 - 130	17	20	
Diesel Range Organics (Over C10-C28)	<15.1	U	999	1050		mg/Kg		105	70 - 130	18	20	

Surrogate	MSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane	120		70 - 130
o-Terphenyl	122		70 - 130

QC Sample Results

Client: Crain Environmental
 Project/Site: State J 2 #17

Job ID: 880-61299-1
 SDG: Lea County, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-116490/1-A
 Matrix: Solid
 Analysis Batch: 116529

Client Sample ID: Method Blank
 Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.395	U	10.0	0.395	mg/Kg			08/13/25 15:34	1

Lab Sample ID: LCS 880-116490/2-A
 Matrix: Solid
 Analysis Batch: 116529

Client Sample ID: Lab Control Sample
 Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	227.3		mg/Kg		91	90 - 110

Lab Sample ID: LCSD 880-116490/3-A
 Matrix: Solid
 Analysis Batch: 116529

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	227.8		mg/Kg		91	90 - 110	0	20

Lab Sample ID: 880-61299-1 MS
 Matrix: Solid
 Analysis Batch: 116529

Client Sample ID: S-7
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	6.13	J F1	248	219.8	F1	mg/Kg		86	90 - 110

Lab Sample ID: 880-61299-1 MSD
 Matrix: Solid
 Analysis Batch: 116529

Client Sample ID: S-7
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	6.13	J F1	248	220.6	F1	mg/Kg		86	90 - 110	0	20

QC Association Summary

Client: Crain Environmental
Project/Site: State J 2 #17Job ID: 880-61299-1
SDG: Lea County, NM

GC VOA

Analysis Batch: 116437

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-61299-1	S-7	Total/NA	Solid	8021B	116494
880-61299-2	S-8	Total/NA	Solid	8021B	116494
880-61299-3	B-1	Total/NA	Solid	8021B	116494
MB 880-116494/5-A	Method Blank	Total/NA	Solid	8021B	116494
LCS 880-116494/1-A	Lab Control Sample	Total/NA	Solid	8021B	116494
LCSD 880-116494/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	116494
890-8615-A-21-B MS	Matrix Spike	Total/NA	Solid	8021B	116494
890-8615-A-21-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	116494

Prep Batch: 116494

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-61299-1	S-7	Total/NA	Solid	5035	
880-61299-2	S-8	Total/NA	Solid	5035	
880-61299-3	B-1	Total/NA	Solid	5035	
MB 880-116494/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-116494/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-116494/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-8615-A-21-B MS	Matrix Spike	Total/NA	Solid	5035	
890-8615-A-21-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 116656

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-61299-1	S-7	Total/NA	Solid	Total BTEX	
880-61299-2	S-8	Total/NA	Solid	Total BTEX	
880-61299-3	B-1	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 116251

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-61299-1	S-7	Total/NA	Solid	8015NM Prep	
880-61299-2	S-8	Total/NA	Solid	8015NM Prep	
880-61299-3	B-1	Total/NA	Solid	8015NM Prep	
MB 880-116251/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-116251/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-116251/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-61288-A-5-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-61288-A-5-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 116852

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-61299-1	S-7	Total/NA	Solid	8015B NM	116251
880-61299-2	S-8	Total/NA	Solid	8015B NM	116251
880-61299-3	B-1	Total/NA	Solid	8015B NM	116251
MB 880-116251/1-A	Method Blank	Total/NA	Solid	8015B NM	116251
LCS 880-116251/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	116251
LCSD 880-116251/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	116251
880-61288-A-5-B MS	Matrix Spike	Total/NA	Solid	8015B NM	116251
880-61288-A-5-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	116251

Eurofins Midland

QC Association Summary

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-61299-1
SDG: Lea County, NM

GC Semi VOA

Analysis Batch: 116900

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-61299-1	S-7	Total/NA	Solid	8015 NM	
880-61299-2	S-8	Total/NA	Solid	8015 NM	
880-61299-3	B-1	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 116490

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-61299-1	S-7	Soluble	Solid	DI Leach	
880-61299-2	S-8	Soluble	Solid	DI Leach	
880-61299-3	B-1	Soluble	Solid	DI Leach	
MB 880-116490/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-116490/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-116490/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-61299-1 MS	S-7	Soluble	Solid	DI Leach	
880-61299-1 MSD	S-7	Soluble	Solid	DI Leach	

Analysis Batch: 116529

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-61299-1	S-7	Soluble	Solid	300.0	116490
880-61299-2	S-8	Soluble	Solid	300.0	116490
880-61299-3	B-1	Soluble	Solid	300.0	116490
MB 880-116490/1-A	Method Blank	Soluble	Solid	300.0	116490
LCS 880-116490/2-A	Lab Control Sample	Soluble	Solid	300.0	116490
LCSD 880-116490/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	116490
880-61299-1 MS	S-7	Soluble	Solid	300.0	116490
880-61299-1 MSD	S-7	Soluble	Solid	300.0	116490

Lab Chronicle

Client: Crain Environmental
 Project/Site: State J 2 #17

Job ID: 880-61299-1
 SDG: Lea County, NM

Client Sample ID: S-7

Lab Sample ID: 880-61299-1

Date Collected: 08/07/25 11:45

Matrix: Solid

Date Received: 08/08/25 14:09

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	116494	08/12/25 11:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116437	08/12/25 20:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			116656	08/12/25 20:20	SA	EET MID
Total/NA	Analysis	8015 NM		1			116900	08/17/25 01:48	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	116251	08/08/25 13:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116852	08/17/25 01:48	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	116490	08/12/25 11:06	SA	EET MID
Soluble	Analysis	300.0		1			116529	08/13/25 15:51	CS	EET MID

Client Sample ID: S-8

Lab Sample ID: 880-61299-2

Date Collected: 08/07/25 11:49

Matrix: Solid

Date Received: 08/08/25 14:09

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	116494	08/12/25 11:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116437	08/12/25 20:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			116656	08/12/25 20:40	SA	EET MID
Total/NA	Analysis	8015 NM		1			116900	08/17/25 02:05	SA	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	116251	08/08/25 13:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116852	08/17/25 02:05	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	116490	08/12/25 11:06	SA	EET MID
Soluble	Analysis	300.0		1			116529	08/13/25 16:08	CS	EET MID

Client Sample ID: B-1

Lab Sample ID: 880-61299-3

Date Collected: 08/07/25 11:53

Matrix: Solid

Date Received: 08/08/25 14:09

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	116494	08/12/25 11:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	116437	08/12/25 21:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			116656	08/12/25 21:01	SA	EET MID
Total/NA	Analysis	8015 NM		1			116900	08/17/25 02:35	SA	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	116251	08/08/25 13:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	116852	08/17/25 02:35	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	116490	08/12/25 11:06	SA	EET MID
Soluble	Analysis	300.0		1			116529	08/13/25 16:14	CS	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-61299-1
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	06-30-26

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

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

- 1
- 2
- 3
- 4
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Method Summary

Client: Crain Environmental
 Project/Site: State J 2 #17

Job ID: 880-61299-1
 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: State J 2 #17

Job ID: 880-61299-1
SDG: Lea County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-61299-1	S-7	Solid	08/07/25 11:45	08/08/25 14:09	0-6.5'
880-61299-2	S-8	Solid	08/07/25 11:49	08/08/25 14:09	0-6.5'
880-61299-3	B-1	Solid	08/07/25 11:53	08/08/25 14:09	6.5'

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Login Sample Receipt Checklist

Client: Crain Environmental

Job Number: 880-61299-1
SDG Number: Lea County, NM

Login Number: 61299

List Number: 1

Creator: Vasquez, Julisa

List Source: Eurofins Midland

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

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Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Cindy Crain
Crain Environmental
2925 E. 17th St.
Odessa, Texas 79761
Generated 9/22/2025 5:27:57 PM

JOB DESCRIPTION

State J 2 #17

JOB NUMBER

880-62820-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701



Eurofins Midland

Job Notes

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

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

Authorization



Generated
9/22/2025 5:27:57 PM

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

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Client: Crain Environmental
Project/Site: State J 2 #17

Laboratory Job ID: 880-62820-1

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Definitions/Glossary

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-62820-1

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Eurofins Midland

Case Narrative

Client: Crain Environmental
Project: State J 2 #17

Job ID: 880-62820-1

Job ID: 880-62820-1

Eurofins Midland

Job Narrative 880-62820-1

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

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

Receipt

The samples were received on 9/18/2025 3:10 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.8°C.

GC VOA

Method 8021B: The laboratory control sample duplicate (LCSD) associated with preparation batch 880-119269 and analytical batch 880-119265 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (LCSD 880-119269/2-A). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

Diesel Range Organics

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-119261/2-A). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-119261 and analytical batch 880-119363 was outside the upper control limits.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 880-119261 and analytical batch 880-119363 was outside control limits. Sample non-homogeneity is suspected.

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

HPLC/IC

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-119264 and analytical batch 880-119325 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

Eurofins Midland

Client Sample Results

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-62820-1

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

Lab Sample ID: 880-62820-1

Date Collected: 09/17/25 10:05

Matrix: Solid

Date Received: 09/18/25 15:10

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		09/19/25 09:21	09/19/25 11:58	1
Toluene	<0.00201	U	0.00201	0.00201	mg/Kg		09/19/25 09:21	09/19/25 11:58	1
Ethylbenzene	<0.00109	U	0.00201	0.00109	mg/Kg		09/19/25 09:21	09/19/25 11:58	1
m-Xylene & p-Xylene	<0.00229	U	0.00402	0.00229	mg/Kg		09/19/25 09:21	09/19/25 11:58	1
o-Xylene	<0.00159	U ** *1	0.00201	0.00159	mg/Kg		09/19/25 09:21	09/19/25 11:58	1
Xylenes, Total	<0.00229	U	0.00402	0.00229	mg/Kg		09/19/25 09:21	09/19/25 11:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130	09/19/25 09:21	09/19/25 11:58	1
1,4-Difluorobenzene (Surr)	109		70 - 130	09/19/25 09:21	09/19/25 11:58	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			09/19/25 11:58	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			09/20/25 01:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.9	14.5	mg/Kg		09/19/25 08:29	09/20/25 01:24	1
Diesel Range Organics (Over C10-C28)	<15.1	U F2	49.9	15.1	mg/Kg		09/19/25 08:29	09/20/25 01:24	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		09/19/25 08:29	09/20/25 01:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130	09/19/25 08:29	09/20/25 01:24	1
o-Terphenyl	96		70 - 130	09/19/25 08:29	09/20/25 01:24	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	49.8	F1	9.98	0.394	mg/Kg			09/19/25 18:45	1

Client Sample ID: S-10 (1')

Lab Sample ID: 880-62820-2

Date Collected: 09/17/25 10:20

Matrix: Solid

Date Received: 09/18/25 15:10

Sample Depth: 1'

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		09/19/25 09:21	09/19/25 12:19	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		09/19/25 09:21	09/19/25 12:19	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		09/19/25 09:21	09/19/25 12:19	1
m-Xylene & p-Xylene	<0.00227	U	0.00398	0.00227	mg/Kg		09/19/25 09:21	09/19/25 12:19	1
o-Xylene	<0.00157	U ** *1	0.00199	0.00157	mg/Kg		09/19/25 09:21	09/19/25 12:19	1
Xylenes, Total	<0.00227	U	0.00398	0.00227	mg/Kg		09/19/25 09:21	09/19/25 12:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	09/19/25 09:21	09/19/25 12:19	1

Eurofins Midland

Client Sample Results

Client: Crain Environmental
 Project/Site: State J 2 #17

Job ID: 880-62820-1

Client Sample ID: S-10 (1')

Lab Sample ID: 880-62820-2

Date Collected: 09/17/25 10:20

Matrix: Solid

Date Received: 09/18/25 15:10

Sample Depth: 1'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	100		70 - 130	09/19/25 09:21	09/19/25 12:19	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			09/19/25 12:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	50.1	15.1	mg/Kg			09/20/25 02:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.1	14.5	mg/Kg		09/19/25 08:29	09/20/25 02:10	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.1	15.1	mg/Kg		09/19/25 08:29	09/20/25 02:10	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.1	15.1	mg/Kg		09/19/25 08:29	09/20/25 02:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130	09/19/25 08:29	09/20/25 02:10	1
o-Terphenyl	101		70 - 130	09/19/25 08:29	09/20/25 02:10	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	38.4		9.92	0.392	mg/Kg			09/19/25 19:02	1

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

Lab Sample ID: 880-62820-3

Date Collected: 09/17/25 10:30

Matrix: Solid

Date Received: 09/18/25 15:10

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		09/19/25 09:21	09/19/25 12:39	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		09/19/25 09:21	09/19/25 12:39	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		09/19/25 09:21	09/19/25 12:39	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		09/19/25 09:21	09/19/25 12:39	1
o-Xylene	<0.00158	U *+ *1	0.00200	0.00158	mg/Kg		09/19/25 09:21	09/19/25 12:39	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg		09/19/25 09:21	09/19/25 12:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	09/19/25 09:21	09/19/25 12:39	1
1,4-Difluorobenzene (Surr)	103		70 - 130	09/19/25 09:21	09/19/25 12:39	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			09/19/25 12:39	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			09/20/25 02:26	1

Eurofins Midland

Client Sample Results

Client: Crain Environmental
 Project/Site: State J 2 #17

Job ID: 880-62820-1

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

Lab Sample ID: 880-62820-3

Date Collected: 09/17/25 10:30

Matrix: Solid

Date Received: 09/18/25 15:10

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	49.9	14.5	mg/Kg		09/19/25 08:29	09/20/25 02:26	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.9	15.1	mg/Kg		09/19/25 08:29	09/20/25 02:26	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		09/19/25 08:29	09/20/25 02:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				09/19/25 08:29	09/20/25 02:26	1
o-Terphenyl	98		70 - 130				09/19/25 08:29	09/20/25 02:26	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	40.1		9.94	0.393	mg/Kg			09/19/25 19:08	1

Client Sample ID: S-11 (1')

Lab Sample ID: 880-62820-4

Date Collected: 09/17/25 10:40

Matrix: Solid

Date Received: 09/18/25 15:10

Sample Depth: 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		09/19/25 09:21	09/19/25 13:00	1
Toluene	<0.00201	U	0.00201	0.00201	mg/Kg		09/19/25 09:21	09/19/25 13:00	1
Ethylbenzene	<0.00109	U	0.00201	0.00109	mg/Kg		09/19/25 09:21	09/19/25 13:00	1
m-Xylene & p-Xylene	<0.00229	U	0.00402	0.00229	mg/Kg		09/19/25 09:21	09/19/25 13:00	1
o-Xylene	<0.00159	U *+ *1	0.00201	0.00159	mg/Kg		09/19/25 09:21	09/19/25 13:00	1
Xylenes, Total	<0.00229	U	0.00402	0.00229	mg/Kg		09/19/25 09:21	09/19/25 13:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130				09/19/25 09:21	09/19/25 13:00	1
1,4-Difluorobenzene (Surr)	100		70 - 130				09/19/25 09:21	09/19/25 13:00	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			09/19/25 13:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	49.9	15.1	mg/Kg			09/20/25 02:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.9	14.5	mg/Kg		09/19/25 08:29	09/20/25 02:41	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.9	15.1	mg/Kg		09/19/25 08:29	09/20/25 02:41	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		09/19/25 08:29	09/20/25 02:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				09/19/25 08:29	09/20/25 02:41	1
o-Terphenyl	101		70 - 130				09/19/25 08:29	09/20/25 02:41	1

Eurofins Midland

Client Sample Results

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-62820-1

Client Sample ID: S-11 (1')

Lab Sample ID: 880-62820-4

Date Collected: 09/17/25 10:40

Matrix: Solid

Date Received: 09/18/25 15:10

Sample Depth: 1'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	38.1		9.96	0.393	mg/Kg			09/19/25 19:14	1

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

Surrogate Summary

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-62820-1

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
880-62820-1	S-10 (0-6")	84	109
880-62820-1 MS	S-10 (0-6")	99	96
880-62820-1 MSD	S-10 (0-6")	99	95
880-62820-2	S-10 (1')	99	100
880-62820-3	S-11 (0-6")	100	103
880-62820-4	S-11 (1')	96	100
LCS 880-119269/1-A	Lab Control Sample	100	96
LCS 880-119269/2-A	Lab Control Sample Dup	178 S1+	99
MB 880-119269/5-A	Method Blank	93	96

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	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
880-62820-1	S-10 (0-6")	104	96
880-62820-1 MS	S-10 (0-6")	108	125
880-62820-1 MSD	S-10 (0-6")	118	103
880-62820-2	S-10 (1')	103	101
880-62820-3	S-11 (0-6")	106	98
880-62820-4	S-11 (1')	106	101
LCS 880-119261/2-A	Lab Control Sample	129	149 S1+
LCS 880-119261/3-A	Lab Control Sample Dup	105	121
MB 880-119261/1-A	Method Blank	144 S1+	153 S1+

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Eurofins Midland

QC Sample Results

Client: Crain Environmental
 Project/Site: State J 2 #17

Job ID: 880-62820-1

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-119269/5-A
 Matrix: Solid
 Analysis Batch: 119265

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 119269

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		09/19/25 09:21	09/19/25 11:37	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		09/19/25 09:21	09/19/25 11:37	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		09/19/25 09:21	09/19/25 11:37	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		09/19/25 09:21	09/19/25 11:37	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		09/19/25 09:21	09/19/25 11:37	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		09/19/25 09:21	09/19/25 11:37	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	09/19/25 09:21	09/19/25 11:37	1
1,4-Difluorobenzene (Surr)	96		70 - 130	09/19/25 09:21	09/19/25 11:37	1

Lab Sample ID: LCS 880-119269/1-A
 Matrix: Solid
 Analysis Batch: 119265

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 119269

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08334		mg/Kg		83	70 - 130
Toluene	0.100	0.08422		mg/Kg		84	70 - 130
Ethylbenzene	0.100	0.08859		mg/Kg		89	70 - 130
m-Xylene & p-Xylene	0.200	0.1778		mg/Kg		89	70 - 130
o-Xylene	0.100	0.08929		mg/Kg		89	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: LCSD 880-119269/2-A
 Matrix: Solid
 Analysis Batch: 119265

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 119269

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08690		mg/Kg		87	70 - 130	4	35
Toluene	0.100	0.08640		mg/Kg		86	70 - 130	3	35
Ethylbenzene	0.100	0.09080		mg/Kg		91	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.1826		mg/Kg		91	70 - 130	3	35
o-Xylene	0.100	0.1475	*+ *1	mg/Kg		148	70 - 130	49	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	178	S1+	70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 880-62820-1 MS
 Matrix: Solid
 Analysis Batch: 119265

Client Sample ID: S-10 (0-6")
 Prep Type: Total/NA
 Prep Batch: 119269

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00140	U	0.100	0.1063		mg/Kg		106	70 - 130
Toluene	<0.00201	U	0.100	0.1066		mg/Kg		107	70 - 130

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QC Sample Results

Client: Crain Environmental
 Project/Site: State J 2 #17

Job ID: 880-62820-1

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

Lab Sample ID: 880-62820-1 MS

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

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 119265

Prep Batch: 119269

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec
	Result	Qualifier		Result	Qualifier				
Ethylbenzene	<0.00109	U	0.100	0.1104		mg/Kg		110	70 - 130
m-Xylene & p-Xylene	<0.00229	U	0.200	0.2219		mg/Kg		111	70 - 130
o-Xylene	<0.00159	U ** *1	0.100	0.1104		mg/Kg		110	70 - 130

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: 880-62820-1 MSD

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

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 119265

Prep Batch: 119269

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier		Result	Qualifier						
Benzene	<0.00140	U	0.100	0.08320		mg/Kg		83	70 - 130	24	35
Toluene	<0.00201	U	0.100	0.08163		mg/Kg		82	70 - 130	27	35
Ethylbenzene	<0.00109	U	0.100	0.08571		mg/Kg		86	70 - 130	25	35
m-Xylene & p-Xylene	<0.00229	U	0.200	0.1732		mg/Kg		87	70 - 130	25	35
o-Xylene	<0.00159	U ** *1	0.100	0.08574		mg/Kg		86	70 - 130	25	35

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

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

Lab Sample ID: MB 880-119261/1-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 119363

Prep Batch: 119261

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		09/19/25 08:29	09/20/25 00:37	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		09/19/25 08:29	09/20/25 00:37	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		09/19/25 08:29	09/20/25 00:37	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1-Chlorooctane	144	S1+	70 - 130	09/19/25 08:29	09/20/25 00:37	1
o-Terphenyl	153	S1+	70 - 130	09/19/25 08:29	09/20/25 00:37	1

Lab Sample ID: LCS 880-119261/2-A

Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 119363

Prep Batch: 119261

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec
Gasoline Range Organics (GRO)-C6-C10	1000	1109		mg/Kg		111	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1049		mg/Kg		105	70 - 130

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QC Sample Results

Client: Crain Environmental
 Project/Site: State J 2 #17

Job ID: 880-62820-1

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

Lab Sample ID: LCS 880-119261/2-A
Matrix: Solid
Analysis Batch: 119363

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 119261

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1-Chlorooctane	129		70 - 130
o-Terphenyl	149	S1+	70 - 130

Lab Sample ID: LCSD 880-119261/3-A
Matrix: Solid
Analysis Batch: 119363

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 119261

Analyte	Spike Added	LCSD LCSD		Unit	D	%Rec	%Rec		RPD	
		Result	Qualifier				Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10	1000	991.7		mg/Kg		99	70 - 130	11	20	
Diesel Range Organics (Over C10-C28)	1000	861.4		mg/Kg		86	70 - 130	20	20	

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane	105		70 - 130
o-Terphenyl	121		70 - 130

Lab Sample ID: 880-62820-1 MS
Matrix: Solid
Analysis Batch: 119363

Client Sample ID: S-10 (0-6")
Prep Type: Total/NA
Prep Batch: 119261

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec	
				Result	Qualifier				Limits	RPD
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	999	898.8		mg/Kg		90	70 - 130	
Diesel Range Organics (Over C10-C28)	<15.1	U F2	999	1051		mg/Kg		105	70 - 130	

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
1-Chlorooctane	108		70 - 130
o-Terphenyl	125		70 - 130

Lab Sample ID: 880-62820-1 MSD
Matrix: Solid
Analysis Batch: 119363

Client Sample ID: S-10 (0-6")
Prep Type: Total/NA
Prep Batch: 119261

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD MSD		Unit	D	%Rec	%Rec		
				Result	Qualifier				Limits	RPD	
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	999	821.0		mg/Kg		82	70 - 130	9	20
Diesel Range Organics (Over C10-C28)	<15.1	U F2	999	769.0	F2	mg/Kg		77	70 - 130	31	20

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane	118		70 - 130
o-Terphenyl	103		70 - 130

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QC Sample Results

Client: Crain Environmental
 Project/Site: State J 2 #17

Job ID: 880-62820-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-119264/1-A
 Matrix: Solid
 Analysis Batch: 119325

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			09/19/25 18:27	1

Lab Sample ID: LCS 880-119264/2-A
 Matrix: Solid
 Analysis Batch: 119325

Client Sample ID: Lab Control Sample
 Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	251.1		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-119264/3-A
 Matrix: Solid
 Analysis Batch: 119325

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	252.7		mg/Kg		101	90 - 110	1	20

Lab Sample ID: 880-62820-1 MS
 Matrix: Solid
 Analysis Batch: 119325

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	49.8	F1	250	356.0	F1	mg/Kg		123	90 - 110

Lab Sample ID: 880-62820-1 MSD
 Matrix: Solid
 Analysis Batch: 119325

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	49.8	F1	250	352.2	F1	mg/Kg		121	90 - 110	1	20

QC Association Summary

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-62820-1

GC VOA

Analysis Batch: 119265

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-62820-1	S-10 (0-6")	Total/NA	Solid	8021B	119269
880-62820-2	S-10 (1')	Total/NA	Solid	8021B	119269
880-62820-3	S-11 (0-6")	Total/NA	Solid	8021B	119269
880-62820-4	S-11 (1')	Total/NA	Solid	8021B	119269
MB 880-119269/5-A	Method Blank	Total/NA	Solid	8021B	119269
LCS 880-119269/1-A	Lab Control Sample	Total/NA	Solid	8021B	119269
LCS 880-119269/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	119269
880-62820-1 MS	S-10 (0-6")	Total/NA	Solid	8021B	119269
880-62820-1 MSD	S-10 (0-6")	Total/NA	Solid	8021B	119269

Prep Batch: 119269

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-62820-1	S-10 (0-6")	Total/NA	Solid	5035	
880-62820-2	S-10 (1')	Total/NA	Solid	5035	
880-62820-3	S-11 (0-6")	Total/NA	Solid	5035	
880-62820-4	S-11 (1')	Total/NA	Solid	5035	
MB 880-119269/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-119269/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCS 880-119269/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-62820-1 MS	S-10 (0-6")	Total/NA	Solid	5035	
880-62820-1 MSD	S-10 (0-6")	Total/NA	Solid	5035	

Analysis Batch: 119511

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-62820-1	S-10 (0-6")	Total/NA	Solid	Total BTEX	
880-62820-2	S-10 (1')	Total/NA	Solid	Total BTEX	
880-62820-3	S-11 (0-6")	Total/NA	Solid	Total BTEX	
880-62820-4	S-11 (1')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 119261

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-62820-1	S-10 (0-6")	Total/NA	Solid	8015NM Prep	
880-62820-2	S-10 (1')	Total/NA	Solid	8015NM Prep	
880-62820-3	S-11 (0-6")	Total/NA	Solid	8015NM Prep	
880-62820-4	S-11 (1')	Total/NA	Solid	8015NM Prep	
MB 880-119261/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-119261/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCS 880-119261/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-62820-1 MS	S-10 (0-6")	Total/NA	Solid	8015NM Prep	
880-62820-1 MSD	S-10 (0-6")	Total/NA	Solid	8015NM Prep	

Analysis Batch: 119363

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-62820-1	S-10 (0-6")	Total/NA	Solid	8015B NM	119261
880-62820-2	S-10 (1')	Total/NA	Solid	8015B NM	119261
880-62820-3	S-11 (0-6")	Total/NA	Solid	8015B NM	119261
880-62820-4	S-11 (1')	Total/NA	Solid	8015B NM	119261
MB 880-119261/1-A	Method Blank	Total/NA	Solid	8015B NM	119261
LCS 880-119261/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	119261

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QC Association Summary

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-62820-1

GC Semi VOA (Continued)

Analysis Batch: 119363 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-119261/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	119261
880-62820-1 MS	S-10 (0-6")	Total/NA	Solid	8015B NM	119261
880-62820-1 MSD	S-10 (0-6")	Total/NA	Solid	8015B NM	119261

Analysis Batch: 119427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-62820-1	S-10 (0-6")	Total/NA	Solid	8015 NM	
880-62820-2	S-10 (1')	Total/NA	Solid	8015 NM	
880-62820-3	S-11 (0-6")	Total/NA	Solid	8015 NM	
880-62820-4	S-11 (1')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 119264

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-62820-1	S-10 (0-6")	Soluble	Solid	DI Leach	
880-62820-2	S-10 (1')	Soluble	Solid	DI Leach	
880-62820-3	S-11 (0-6")	Soluble	Solid	DI Leach	
880-62820-4	S-11 (1')	Soluble	Solid	DI Leach	
MB 880-119264/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-119264/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-119264/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-62820-1 MS	S-10 (0-6")	Soluble	Solid	DI Leach	
880-62820-1 MSD	S-10 (0-6")	Soluble	Solid	DI Leach	

Analysis Batch: 119325

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-62820-1	S-10 (0-6")	Soluble	Solid	300.0	119264
880-62820-2	S-10 (1')	Soluble	Solid	300.0	119264
880-62820-3	S-11 (0-6")	Soluble	Solid	300.0	119264
880-62820-4	S-11 (1')	Soluble	Solid	300.0	119264
MB 880-119264/1-A	Method Blank	Soluble	Solid	300.0	119264
LCS 880-119264/2-A	Lab Control Sample	Soluble	Solid	300.0	119264
LCSD 880-119264/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	119264
880-62820-1 MS	S-10 (0-6")	Soluble	Solid	300.0	119264
880-62820-1 MSD	S-10 (0-6")	Soluble	Solid	300.0	119264

Lab Chronicle

Client: Crain Environmental
 Project/Site: State J 2 #17

Job ID: 880-62820-1

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

Lab Sample ID: 880-62820-1

Date Collected: 09/17/25 10:05

Matrix: Solid

Date Received: 09/18/25 15:10

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	119269	09/19/25 09:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	119265	09/19/25 11:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			119511	09/19/25 11:58	SA	EET MID
Total/NA	Analysis	8015 NM		1			119427	09/20/25 01:24	SA	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	119261	09/19/25 08:29	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	119363	09/20/25 01:24	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	119264	09/19/25 08:44	SA	EET MID
Soluble	Analysis	300.0		1			119325	09/19/25 18:45	CS	EET MID

Client Sample ID: S-10 (1')

Lab Sample ID: 880-62820-2

Date Collected: 09/17/25 10:20

Matrix: Solid

Date Received: 09/18/25 15:10

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	119269	09/19/25 09:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	119265	09/19/25 12:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			119511	09/19/25 12:19	SA	EET MID
Total/NA	Analysis	8015 NM		1			119427	09/20/25 02:10	SA	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	119261	09/19/25 08:29	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	119363	09/20/25 02:10	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	119264	09/19/25 08:44	SA	EET MID
Soluble	Analysis	300.0		1			119325	09/19/25 19:02	CS	EET MID

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

Lab Sample ID: 880-62820-3

Date Collected: 09/17/25 10:30

Matrix: Solid

Date Received: 09/18/25 15:10

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	119269	09/19/25 09:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	119265	09/19/25 12:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			119511	09/19/25 12:39	SA	EET MID
Total/NA	Analysis	8015 NM		1			119427	09/20/25 02:26	SA	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	119261	09/19/25 08:29	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	119363	09/20/25 02:26	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	119264	09/19/25 08:44	SA	EET MID
Soluble	Analysis	300.0		1			119325	09/19/25 19:08	CS	EET MID

Client Sample ID: S-11 (1')

Lab Sample ID: 880-62820-4

Date Collected: 09/17/25 10:40

Matrix: Solid

Date Received: 09/18/25 15:10

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	119269	09/19/25 09:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	119265	09/19/25 13:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			119511	09/19/25 13:00	SA	EET MID

Eurofins Midland

Lab Chronicle

Client: Crain Environmental
 Project/Site: State J 2 #17

Job ID: 880-62820-1

Client Sample ID: S-11 (1')

Lab Sample ID: 880-62820-4

Date Collected: 09/17/25 10:40

Matrix: Solid

Date Received: 09/18/25 15:10

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			119427	09/20/25 02:41	SA	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	119261	09/19/25 08:29	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	119363	09/20/25 02:41	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	119264	09/19/25 08:44	SA	EET MID
Soluble	Analysis	300.0		1			119325	09/19/25 19:14	CS	EET MID

Laboratory References:

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

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Accreditation/Certification Summary

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-62820-1

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-26

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

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

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Method Summary

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-62820-1

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: State J 2 #17

Job ID: 880-62820-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-62820-1	S-10 (0-6")	Solid	09/17/25 10:05	09/18/25 15:10	0-6"
880-62820-2	S-10 (1')	Solid	09/17/25 10:20	09/18/25 15:10	1'
880-62820-3	S-11 (0-6")	Solid	09/17/25 10:30	09/18/25 15:10	0-6"
880-62820-4	S-11 (1')	Solid	09/17/25 10:40	09/18/25 15:10	1'

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880-62820 Chain of Custody

Page 1 of 1

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Work Order Comments

Program: UST/PST PRP Downfields RR SU brfund

State of Project: **NM**

Reporting: Level II Level III PST/UST RRP Level IV

Deliverables: EDD ADaPT Other:

Project Manager: Cindy Crain
Company Name: Crain Environmental
Address: 2925 East 17th Street
City, State ZIP: Odessa, TX 79761
Phone: (575) 441-7244

Bill to: (if different) Leasa Hale
Company Name: SWR
Address: P.O. Box 53570
City, State ZIP: Midland, Texas 79710-3570
Email: cindy.crain@gmail.com

Project Name: State J 2 #17
Project Number: NA
Project Location: Lea Co., NM
Sampler's Name: Cindy Crain
PO #: NA

Turn Around
 Routine Rush
Due Date: TAT starts the day received by the lab, if received by 4:30pm

SAMPLE RECEIPT
 Temp Blank: Yes No Wet Ice: Yes No
 Samples Received Intact: Yes No Thermometer ID: *0.9*
 Cooler Custody Seals: Yes No Correction Factor: *0.8*
 Sample Custody Seals: Yes No Temperature Reading:
 Total Containers: Corrected Temperature:

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters		Preservative Codes	Sample Comments
							Yes	No		
S-10 (0-6")	S	9/17/2025	1015	0-6"	G	1	TFH 8015 M	Chlorides	None: NO Cool: Cool HCL: HC H ₂ SO ₄ : H ₂ H ₃ PO ₄ : HP NaHSO ₄ : NABIS Na ₂ S ₂ O ₃ : NaSO ₃ Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC	
S-10 (1')	S	9/17/2025	1020	1'	G	1				
S-11 (0-6")	S	9/17/2025	1030	0-6"	G	1				
S-11 (1')	S	9/17/2025	1040	1'	G	1				

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed: TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$65.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>Cindy Crain</i>	<i>[Signature]</i>	9/18/25 1510			



Login Sample Receipt Checklist

Client: Crain Environmental

Job Number: 880-62820-1

Login Number: 62820

List Source: Eurofins Midland

List Number: 1

Creator: Vasquez, Julisa

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

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Appendix D: Photographic Documentation

APPENDIX D
STATE J 2 #017



View to SW of E TB excavation (8/7/25).



View to SE of TB excavations (8/7/25).



View to SE of W TB excavation (8/7/25).



View to SW of E TB excavation (8/7/25).



View to SE of TB excavations (8/7/25).



View to N of flag at S-10 location (9/17/25).



View to E of flag at S-11 location (9/17/25).



Appendix E: Waste Manifests



LEA LAND, LLC SURFACE WASTE LANDFILL

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

NON-HAZARDOUS WASTE MANIFEST		No. 217114	Trailer No. MCVAY-208		
GENERATOR	Company Name: Southwest Royalties		Address: 200 N. Lorraine St., #400 Midland, TX 79710		
	Phone: (432) 685-9038		Disposal Date: 06-30-2025 11:25 AM		
	Name Or Description Of Waste Shipped:				
	<input checked="" type="checkbox"/> RCRA Exempt <input type="checkbox"/> RCRA Non-Exempt				
	Weight (lbs): 45820, 41140, 41880				
Lease/Job Name: STATE J2 #017					
Generator's Representative: Merch Merchant					
TRANSPORTER	Name: McVay Services				
	Emergency Contact: Marcos Williams				
	Emergency Contact Phone: (806) 841-4554				
	Transporter: Acknowledgment of Delivery of Material				
Printed/Typed Name (Impreso/Mecanografico): <u>April Real</u>					
Signature (Firma): <u>[Signature]</u> Date: 06-30-2025 11:25 AM					
DISPOSAL FACILITY	Lea Land, LLC		Mile Marker 64, U.S. Hwy 62/180, 30 Miles East Of Carlsbad, NM		
	Permit No: NM-1-0035-New Mexico		(575) 887-4048		
	Comments:				
	Disposal Facility's Certification: I Hereby Certify That The Above-Describe d Wastes Were Delivered To This Facility.				
Authorized Signature: <u>[Signature]</u>		Unit No: IIB	Date: 06-30-2025	Time: 11:25 AM	

LEA LAND, LLC
1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257



LEA LAND, LLC SURFACE WASTE LANDFILL

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

NON-HAZARDOUS WASTE MANIFEST		No. 217115	Trailer No. MCVAY-209	
GENERATOR	Company Name: Southwest Royalties		Address: 200 N. Lorraine St., #400 Midland, TX 79710	
	Phone: (432) 685-9038		Disposal Date: 06-30-2025 12:00 PM	
	Name Or Description Of Waste Shipped:			
	<input checked="" type="checkbox"/> RCRA Exempt <input type="checkbox"/> RCRA Non-Exempt			
	Weight (lbs): 48040, 48340			
TRANSPORTER	Lease/Job Name: STATE J2 #017			
	Generator's Representative: Merch Merchant			
	Name: McVay Services			
	Emergency Contact: Marcos Williams			
	Emergency Contact Phone: (806) 841-4554			
DISPOSAL FACILITY	Transporter: Acknowledgment of Delivery of Material			
	Printed/Typed Name (Impreso/Mecanografico): <u>Saura Sepulveda</u>			
	Signature (Firma): X <u>[Signature]</u> Date: 06-30-2025 12:00 PM			
	Lea Land, LLC		Mile Marker 64, U.S. Hwy 62/180, 30 Miles East Of Carlsbad, NM	
	Permit No: NM-1-0035-New Mexico		(575) 887-4048	
Comments:				
Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.				
Authorized Signature: <u>[Signature]</u>		Unit No: IIB	Date: 06-30-2025	Time: 12:00 PM

LEA LAND, LLC
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LEA LAND, LLC SURFACE WASTE LANDFILL

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

NON-HAZARDOUS WASTE MANIFEST		No. 217162	Trailer No. MCVAY 208	
GENERATOR	Company Name: Southwest Royalties		Address: 200 N. Lorraine St., #400 Midland, TX 79710	
	Phone: (432) 685-9038		Disposal Date: 07-01-2025 10:03 AM	
	Name Or Description Of Waste Shipped:			
	<input checked="" type="checkbox"/> RCRA Exempt <input type="checkbox"/> RCRA Non-Exempt			
	Weight (lbs): 45700, 45940, 46140			
TRANSPORTER	Lease/Job Name: STATE J2 #017			
	Generator's Representative: Merch Merchant			
	Name: McVay Services			
	Emergency Contact: Marcos Williams			
	Emergency Contact Phone: (806) 841-4554			
DISPOSAL FACILITY	Transporter: Acknowledgment of Delivery of Material			
	Printed/Typed Name (Impreso/Mecanografico): April P. real			
	Signature (Firma): X			Date: 07-01-2025 10:03 AM
	Lea Land, LLC		Mile Marker 64, U.S. Hwy 62/180, 30 Miles East Of Carlsbad, NM	
	Permit No: NM-1-0035-New Mexico		(575) 887-4048	
Comments:				
Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.				
Authorized Signature: 		Unit No: IIB	Date: 07-01-2025	Time: 10:03 AM

LEA LAND, LLC
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LEA LAND, LLC SURFACE WASTE LANDFILL

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

NON-HAZARDOUS WASTE MANIFEST		No. 217207	Trailer No. MCVAY 209	
GENERATOR	Company Name: Southwest Royalties	Address: 200 N. Lorraine St., #400 Midland, TX 79710		Disposal Date: 07-03-2025 08:50 AM
	Phone: (432) 685-9038			
	Name Or Description Of Waste Shipped:			
	<input checked="" type="checkbox"/> RCRA Exempt <input type="checkbox"/> RCRA Non-Exempt			
	Weight (lbs): 55640, 55840, 55980			
Lease/Job Name: STATE J2 # 017				
Generator's Representative: Merch Merchant				
TRANSPORTER	Name: McVay Services			
	Emergency Contact: Marcos Williams			
	Emergency Contact Phone: (806) 841-4554			
	Transporter: Acknowledgment of Delivery of Material			
	Printed/Typed Name (Impreso/Mecanografico): <u>Sandra Sepulveda</u> Signature (Firma): X <u>[Signature]</u> Date: 07-03-2025 08:50 AM			
DISPOSAL FACILITY	Lea Land, LLC	Mile Marker 64, U.S. Hwy 62/180, 30 Miles East Of Carlsbad, NM		(575) 887-4048
	Permit No: NM-1-0035-New Mexico	Comments:		
	Disposal Facility's Certification: I Hereby Certify That The Above-Describe d Wastes Were Delivered To This Facility.			
	Authorized Signature: <u>[Signature]</u>	Unit No: IIB	Date: 07-03-2025	Time: 08:50 AM

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LEA LAND, LLC SURFACE WASTE LANDFILL

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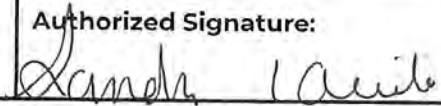
NON-HAZARDOUS WASTE MANIFEST		No. 217262	Trailer No. MC VAY 209	
GENERATOR	Company Name: Southwest Royalties		Address: 200 N. Lorraine St., #400 Midland, TX 79710	
	Phone: (432) 685-9038		Disposal Date: 07-07-2025 10:45 AM	
	Name Or Description Of Waste Shipped:			
	<input checked="" type="checkbox"/> RCRA Exempt <input type="checkbox"/> RCRA Non-Exempt			
	Weight (lbs): 48580			
TRANSPORTER	Lease/Job Name: STATE J2 #017			
	Generator's Representative: Merch Merchant			
	Name: McVay Services			
	Emergency Contact: Marcos Williams			
	Emergency Contact Phone: (806) 841-4554			
DISPOSAL FACILITY	Transporter: Acknowledgment of Delivery of Material			
	Printed/Typed Name (Impreso/Mecanografico): <u>R. Samaseyubreda</u>			
	Signature (Firma): X <u>[Signature]</u> Date: 07-07-2025 10:45 AM			
	Lea Land, LLC		Mile Marker 64, U.S. Hwy 62/180, 30 Miles East Of Carlsbad, NM	
	Permit No: NM-1-0035-New Mexico		(575) 887-4048	
Comments:				
Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.				
Authorized Signature: <u>[Signature]</u>		Unit No: 11B	Date: 07-07-2025	Time: 10:45 AM

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LEA LAND, LLC SURFACE WASTE LANDFILL

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NON-HAZARDOUS WASTE MANIFEST		No. 217255	Trailer No. MCVAY 208	
GENERATOR	Company Name: Southwest Royalties		Address: 200 N. Lorraine St., #400 Midland, TX 79710	
	Phone: (432) 685-9038		Disposal Date: 07-07-2025 10:21 AM	
	Name Or Description Of Waste Shipped:			
	<input checked="" type="checkbox"/> RCRA Exempt <input type="checkbox"/> RCRA Non-Exempt			
	Weight (lbs): 56200, 25760			
Lease/Job Name: STATE J2 #017				
Generator's Representative: Merch Merchant				
TRANSPORTER	Name: McVay Services			
	Emergency Contact: Marcos Williams			
	Emergency Contact Phone: (806) 841-4554			
	Transporter: Acknowledgment of Delivery of Material			
Printed/Typed Name (Impreso/Mecanografico): April Reul				
Signature (Firma): X  Date: 07-07-2025 10:21 AM				
DISPOSAL FACILITY	Lea Land, LLC		Mile Marker 64, U.S. Hwy 62/180, 30 Miles East Of Carlsbad, NM	
	Permit No: NM-1-0035-New Mexico		(575) 887-4048	
	Comments:			
	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.			
Authorized Signature: 		Unit No: IIB	Date: 07-07-2025	Time: 10:21 AM

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LEA LAND, LLC SURFACE WASTE LANDFILL

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NON-HAZARDOUS WASTE MANIFEST		No. 218657	Trailer No. MC VAY 200	
GENERATOR	Company Name: BXP Operating		Address: 11757 Katy FRWY, #475 Houston, TX 77079	
	Phone: (281) 848-3696		Disposal Date: 08-25-2025 10:34 AM	
	Name Or Description Of Waste Shipped:			
	<input checked="" type="checkbox"/> RCRA Exempt <input type="checkbox"/> RCRA Non-Exempt			
	Weight (lbs): 25400			
TRANSPORTER	Lease/Job Name: STATE J 2 # 017			
	Generator's Representative: Jason			
	Name: McVay Services			
	Emergency Contact: Marcos Williams			
	Emergency Contact Phone: (806) 841-4554			
DISPOSAL FACILITY	Transporter: Acknowledgment of Delivery of Material			
	Printed/Typed Name (Impreso/Mecanografico): Manuel D. Rodriguez			
	Signature (Firma): X		Date: 08-25-2025 10:34 AM	
	Lea Land, LLC		Mile Marker 64, U.S. Hwy 62/180, 30 Miles East Of Carlsbad, NM	
Permit No: NM-1-0035-New Mexico		(575) 887-4048		
Comments:				
Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.				
Authorized Signature: 		Unit No: 11B	Date: 08-25-2025	Time: 10:34 AM

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1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257



LEA LAND, LLC SURFACE WASTE LANDFILL

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

NON-HAZARDOUS WASTE MANIFEST		No. 218652	Trailer No. MCVAY-209		
GENERATOR	Company Name: BXP Operating Phone: (281) 848-3696		Address: 11757 Katy FRWY, #475 Houston, TX 77079		Disposal Date: 08-25-2025 09:49 AM
	Name Or Description Of Waste Shipped: <input checked="" type="checkbox"/> RCRA Exempt <input type="checkbox"/> RCRA Non-Exempt				
	Weight (lbs): 49480				
	Lease/Job Name: STATE J #2				
	Generator's Representative: Jason				
TRANSPORTER	Name: McVay Services Emergency Contact: Marcos Williams Emergency Contact Phone: (806) 841-4554				
	Transporter: Acknowledgment of Delivery of Material Printed/Typed Name (Impreso/Mecanografico): <u>X SAURA SEPULCRE</u>				
	Signature (Firma): X <u>[Signature]</u>		Date: 08-25-2025 09:49 AM		
DISPOSAL FACILITY	Lea Land, LLC		Mile Marker 64, U.S. Hwy 62/180, 30 Miles East Of Carlsbad, NM		(575) 887-4048
	Permit No: NM-1-0035-New Mexico		Comments:		
	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.				
	Authorized Signature: <u>[Signature]</u>		Unit No: IIB	Date: 08-25-2025	Time: 09:49 AM

LEA LAND, LLC
1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257



LEA LAND, LLC SURFACE WASTE LANDFILL

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

NON-HAZARDOUS WASTE MANIFEST		No. 218644	Trailer No. MCVAY-205	
GENERATOR	Company Name: BXP Operating		Address: 11757 Katy FRWY, #475 Houston, TX 77079	
	Phone: (281) 848-3696		Disposal Date: 08-25-2025 09:25 AM	
	Name Or Description Of Waste Shipped:			
	<input checked="" type="checkbox"/> RCRA Exempt <input type="checkbox"/> RCRA Non-Exempt			
	Weight (lbs): 49980			
TRANSPORTER	Lease/Job Name: STATE J #2			
	Generator's Representative: Jason			
	Name: McVay Services			
	Emergency Contact: Marcos Williams			
	Emergency Contact Phone: (806) 841-4554			
DISPOSAL FACILITY	Transporter: Acknowledgment of Delivery of Material			
	Printed/Typed Name (Impreso/Mecanografico): <u>April Beal</u>			
	Signature (Firma): <u>[Signature]</u>			Date: 08-25-2025 09:25 AM
	Lea Land, LLC		Mile Marker 64, U.S. Hwy 62/180, 30 Miles East Of Carlsbad, NM	
Permit No: NM-1-0035-New Mexico		(575) 887-4048		
Comments:				
Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.				
Authorized Signature: <u>[Signature]</u>		Unit No: IIB	Date: 08-25-2025	Time: 09:25 AM

LEA LAND, LLC
1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257



Remediation Summary and Closure Report with Reclamation Report

March 18, 2026

**State J 2 #017
30-025-33277
Oil Release
Incident #nSAP0225252743 and
Incident #nAPP2511834534
Lease B0-1534
Lea County, New Mexico**

Prepared For:

Southwest Royalties, Inc.
P.O. Box 53570
Midland, Texas 79710

Prepared By:

Crain Environmental
2925 East 17th Street
Odessa, Texas 79761

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

Cynthia K. Crain, P.G.

State J 2 #017 – Incident #s nSAP0225252743 and nAPP2511834534
Remediation Summary and Closure Report with Reclamation Report



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1.0 Introduction

On behalf of Southwest Royalties, Inc. (SWR), Crain Environmental (CE) has prepared this Remediation Summary and Closure Report with Reclamation Report for a historical release (Incident #nSAP0225252743) and a recently reported release (nAPP2511834534) at the State J 2 #017 (Site), located in Unit Letter I, Section 2, Township 22 South, Range 36 East, Lea County, New Mexico, at Global Positioning Coordinates (GPS) 32.4172592, -103.2306595. The property surface rights are owned by the State of New Mexico (Lease BO-1534).

The State J 2 #017 is located approximately 4.5 miles southwest of Eunice, New Mexico, in an area of oil and gas activity and cattle grazing. The Site can be accessed by traveling south from Eunice, New Mexico on Legion Road for 3 miles to Delaware Basin Road. Travel west on Delaware Basin Road for 2.74 miles and turn north on the lease road. Travel north for 1.27 miles to the Site. There are no locked gates or other access issues. The attached Figure 1 shows the Site location.

2.0 Background

At the request of the New Mexico State Land Office (NMSLO) Environmental Compliance Office (ECO), a soil investigation was conducted on the well pad where historical aerial photos indicated a past release, and at the tank battery where an open New Mexico Oil Conservation Division (NMOCD) Incident (#nSAP0225252743) was located.

The soil investigation indicated that a historical release had occurred east of the wellhead, and a Notification of Release (NOR) was submitted to the NMOCD on April 28, 2025. Incident #nAPP2511834534 was assigned to the release.

On April 30, 2025, a Site Characterization Report and Remediation Workplan was submitted to NMOCD and ECO for Incident #s nSAP0225252743 and nAPP2511834534. The Workplan for each Incident # was approved by the NMOCD on May 27, 2025.

On August 25, 2025, a Remediation Summary and Closure Report was submitted to the NMOCD for Incident #s nSAP0225252743 and nAPP2511834534. On September 10, 2025, the NMOCD approved closure of Incident #nAPP2511834534, and rejected closure of Incident #nSAP0225252743 for the following reasons:

- Horizontal delineation was incomplete and did not meet the requirements of 19.15.29.11 NMAC.
- The C-141 is incomplete. Review your C-141 submission and submit a new C-141 answering the appropriate questions for your circumstances. Southwest Royalties has 90 days (December 9, 2025) to submit its appropriate or final remediation closure report.

On October 11, 2025, a Revised Remediation Summary and Deferral Request for Incident #nSAP0225252743 was submitted to the NMOCD and ECO. The Deferral Request was approved by ECO on October 30, 2025, and by NMOCD on December 9, 2025.

Closure of Incident #nAPP2511834534 was approved by ECO on October 28, 2025.

State J 2 #017 – Incident #s nSAP0225252743 and nAPP2511834534
Remediation Summary and Closure Report with Reclamation Report



As of March 1, 2026, the NMOCD records show the following Stage for each Incident:

- nSAP0225252743: Deferral Request Approved, Pending submission of Remediation Closure Report from the operator
- nAPP2511834534: Remediation Closure Report Approved, Pending submission of Reclamation Report from the operator

As Closure of each Incident was approved by both the NMOCD and ECO, the excavations were backfilled with clean soil from January 5 to January 9, 2026.

This Remediation Summary and Closure Report with Reclamation Report is being submitted to meet the requirements of 19.15.29.13 NMAC for each 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 there is one water well located within a 0.5-mile radius of the Site (CP 00761 POD 1) and no depth to groundwater is provided.

State J 2 #017 – Incident #s nSAP0225252743 and nAPP2511834534
Remediation Summary and Closure Report with Reclamation Report



Two water wells (CP 00763 and L 09966) are located within a 1-mile radius of the Site, and a depth to groundwater for each well is reported to be greater than 50' below ground surface (bgs).

No surface water was present in the area at the time of Site assessment activities, and vegetation is sparse. The United States Fish & Wildlife Service (USFWS) National Wetlands Inventory Map shows a Riverine located approximately 80 feet from the southwest corner of the Site. The Riverine is considered by the USFWS to be an intermittent streambed that is intermittently flooded.

Figure 2 provides a wellhead protection area map that shows the location of the water well within a 0.5-mile radius of the Site. Figure 3 provides a USFWS map. Appendix A provides a copy of the NMOSE Point of Diversion Summary for well CO 00761 POD 1.

As the Riverine is located approximately 80 feet from the southwest corner of the well pad, the most stringent Closure Criteria will be applicable for the Site.

3.2 Surface Features and Other Development

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

- Within 300 feet of any continuously flowing watercourse or any other significant watercourse.
 - No continuously flowing watercourses (rivers, streams, arroyos, etc.) are apparent within 300 feet of the Site in the 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 USFWS wetlands map indicated the Site is not located within 300 feet of a wetland but is located within 80 feet of a Riverine. The New Mexico BLM karst potential map indicates the Site is located within a “low karst potential” area. Finally, a 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 3, 4, and 5 depict the USFWS map, the karst potential map, and the FEMA floodplain map respectively.

3.4 Closure Criteria Applicable to the Site

Based on the presence of a Riverine located approximately 80 feet from the southwest corner of the well pad, the most stringent Closure Criteria will be applicable to the Site. A summary of the Closure Criteria is provided in the table below and in Table 1.

NMOCD Closure Criteria

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

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



4.0 Site Assessment/Characterization Results

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

4.1 Site Map

As required by 19.15.29.11 NMAC, a scaled diagram showing significant Site infrastructure, sample point locations, and known subsurface features such as utilities are provided on Figure 6.

4.2 Depth to Groundwater

As discussed in Section 3.1, a depth to groundwater is thought to be greater than 50' bgs; however, a Riverine is located approximately 80 feet from the southwest corner of the well pad. The assumed depth to groundwater will be less than 50' bgs.

4.3 Wellhead Protection Area

The 0.5-mile wellhead protection area is shown on Figure 2. 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.

5.0 Summary of Remediation Activities

As all sample locations were in areas that were previously disturbed, compliance with the Cultural Properties Protection (CPP) Rule did not apply, and an Archaeological Survey was not completed prior to the soil investigation. A biological desktop review was conducted, and no sensitive wildlife or plant species were found in proximity to the subject Site. A copy of the U.S. Fish & Wildlife Service database review is included as Appendix B.

Remediation results were submitted to the NMOCD and ECO in a Remediation Summary and Closure Report for Incident #nAPP2511834534 on August 25, 2025, and in a Revised Remediation Summary and Deferral Request for Incident #nSAP0225252743 on October 11, 2025. Each report has been approved by both the NMOCD and ECO. Figure 6 shows the areas of remediation and the sample point locations.

Table 1 provides a summary of soil sample analytical results from the excavation for Incident #nAPP2511834534 and Table 2 provides a summary of soil sample analytical results from the excavation for Incident #nSAP0225252743. Each table includes a summary of the backfill soil results. Appendix D provides a copy of the laboratory report and chain-of-custody documentation.

Referring to Tables 1 and 2, concentrations of TPH, BTEX, and chlorides were reported below the Closure Criteria in each backfill sample.



6.0 Summary of Reclamation Activities

As Closure and/or deferral of each Incident was approved by both the NMOCD and ECO, the excavations were backfilled with 372 cubic yards of clean soil from January 5 to January 9, 2026. The impacted surface areas were restored to pre-release conditions, and the berm surrounding the tanks was reinforced to ensure containment of fluids if another release were to occur.

Backfill soil was obtained from a pit at GPS coordinates 33.316667, -103.586833. Soil samples (Backfill 1 and Backfill 2) were collected from the backfill soil on March 4, 2026. Samples were placed in clean glass sample jars, labeled, immediately placed on ice, and hand delivered to Eurofins in Midland, Texas for analysis of TPH, BTEX, and chlorides.

7.0 Closure Request

A combined total of 372 cy of soil was used to backfill the excavations at Incident #s nSAP0225252743 and nAPP2511834534, and to reinforce the berm at the Incident #nSAP0225252743.

As NMOCD has approved deferral of remediation below the storage tanks at Incident # nSAP0225252743, this Remediation Summary and Closure Report with Reclamation Report is being provided for that Site. This Report is also provided as the Reclamation Report for Incident #nAPP2511834534.

As all remediation and reclamation activities have been completed at Incident #s nSAP0225252743 and nAPP2511834534, Southwest Royalties respectfully requests final closure of each of those Sites.

8.0 Distribution

Copy 1: Environmental Compliance Office
ECO@nmslo.gov



TABLES

TABLE 1
 SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS FROM EXCAVATION
 SOUTHWEST ROYALTIES, INC.
 STATE J 2 #017
 INCIDENT #nAPP2511834534 (Well Pad)

Sample ID	Sample Date	Sample Depth	Soil Status	TPH	TPH (DRO)	TPH	Total TPH	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	Chloride
				(GRO)	(MRO)	(MRO)							
NMOCD Closure Criteria				milligrams per kilogram (mg/kg)									
				100	10	-	-	-	-	-	50	600	
Confirmation Sidewall Samples													
S-1	07/24/25	0-1.5'	Excavated	<14.5	188	<15.1	188	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	38.4
S-1	08/07/25	0-1.5'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00138	<0.00198	0.00158 J	<0.00227	<0.00227	5.15 J
S-2	07/24/25	0-1.5'	Excavated	<14.5	148	<15.1	148	<0.00140	<0.00201	<0.00109	<0.00229	<0.00229	97.6
S-2	08/07/25	0-1.5'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00138	<0.00198	0.00126 J	<0.00226	<0.00226	4.23 J
S-3	07/24/25	0-1.5'	In Situ	<14.5	63.8	<15.1	63.8	<0.00138	<0.00198	<0.00108	<0.00226	<0.00226	16.4
S-4	07/24/25	0-1.5'	In Situ	<14.4	<15.0	<15.0	<15.0	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	23.9
S-5	07/24/25	0-1.5'	In Situ	<14.5	27.2 J	<15.1	27.2 J	<0.00140	<0.00201	<0.00110	<0.00230	<0.00230	7.44 J
S-6	07/24/25	0-1.5'	Excavated	<14.5	119	<15.1	119	<0.00138	<0.00198	<0.00108	<0.00226	<0.00226	19.8
S-6	08/07/25	0-2'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00140	<0.00201	0.00138 J	<0.00229	<0.00229	3.55 J
S-7	07/24/25	0-4'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	55.5
S-8	07/24/25	0-4'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00140	<0.00201	<0.00109	<0.00229	<0.00229	7.74 J
S-9	07/24/25	0-4'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00141	<0.00202	<0.00110	<0.00231	<0.00231	10.6
S-10	07/24/25	0-4'	Excavated	<14.5	251	<15.1	251	<0.00140	<0.00201	<0.00110	<0.00230	<0.00230	7.94 J
S-10	08/07/25	0-4.5'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	3.98 J
S-11	07/24/25	0-4'	Excavated	<14.5	297	<15.1	297	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	7.21 J
S-11	08/07/25	0-4.5'	In Situ	<14.5	17.8 J B	18.0 J	35.8 J	<0.00141	<0.00202	<0.00110	<0.00231	<0.00231	3.00 J
S-12	07/24/25	0-4'	Excavated	<14.5	591	<15.1	591	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	6.61 J
S-12	08/07/25	0-4.5'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00140	<0.00202	0.00158 J	<0.00230	<0.00230	3.09 J
S-13	07/24/25	0-3'	In Situ	<14.5	82.0	<15.1	82.0	<0.00138	<0.00198	<0.00108	<0.00226	<0.00226	15.7
Confirmation Bottom Samples													
B-1	07/24/25	1.5'	In Situ	<14.5	15.2 J	<15.1	15.2 J	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	14.8
B-2	07/24/25	1.5'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00140	<0.00201	<0.00109	<0.00229	<0.00229	10.1
B-3	07/24/25	1.5'	Excavated	<14.5	679	<15.1	679	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	493
B-3	08/07/25	2'	In Situ	<14.5	18.1 J B	17.0 J	35.1 J	<0.00138	<0.00199	0.00154 J	<0.00227	<0.00227	4.38 J
B-4	07/24/25	1.5'	Excavated	<14.5	676	<15.1	676	<0.00138	<0.00198	<0.00108	<0.00227	<0.00227	10.7
B-4	08/07/25	2'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	4.20 J
B-5	07/24/25	1.5'	Excavated	<14.5	2,480	<15.1	2,480	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	879
B-5	08/07/25	2'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00139	<0.00200	0.00187 J	<0.00229	<0.00229	3.43 J
B-6	07/24/25	1.5'	In Situ	<14.5	31.3 J	<15.1	31.3 J	<0.00139	<0.00200	<0.00109	<0.00229	<0.00229	17.4
B-7	07/24/25	1.5'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00140	<0.00201	<0.00109	<0.00229	<0.00229	55.3
B-8	07/24/25	3'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00140	<0.00201	<0.00109	<0.00229	<0.00229	5.88 J
B-9	07/24/25	4'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00141	<0.00202	<0.00110	<0.00231	<0.00231	10.5
B-10	07/24/25	4'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	8.03 J
B-11	07/24/25	4'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	6.48 J
B-12	07/24/25	4'	Excavated	<14.5	132	<15.1	132	<0.00141	<0.00202	<0.00110	<0.00231	<0.00231	9.87 J
B-12	08/07/25	4.5'	In Situ	<14.5	<15.1	18.7 J	18.7 J	<0.00139	<0.00200	0.00195 J	<0.00229	<0.00229	4.33 J
B-13	07/24/25	4'	Excavated	<14.5	203	<15.1	203	<0.00140	<0.00201	<0.00110	<0.00230	<0.00230	13.9
B-13	08/07/25	4.5'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00139	<0.00200	0.00220	<0.00229	<0.00229	3.30 J
B-14	07/24/25	4'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	5.80 J
B-15	07/24/25	4'	In Situ	<14.5	99.2	<15.1	99.2	<0.00139	<0.00200	<0.00109	<0.00229	<0.00229	4.23 J
Backfill Soil Sample													
Backfill 2	03/04/26	---	Backfilled	50.0	20	<50.0	70	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	50.0

Notes:

- GRO: Gasoline Range Organics
- DRO: Diesel Range Organics
- MRO: Motor Oil Range Organics
- .: No NMOCD Closure Criteria established.
- bgs: Below Ground Surface
- Bold indicates the COC was above the appropriate laboratory method/sample detection limit.
- < indicates the COC was below the appropriate laboratory method/sample detection limit.
- Bold and yellow highlighting indicates the COC was above the appropriate NMOCD Closure Criteria.
- Green highlighting and italic font indicates soil was excavated, sprayed with Microblaze, and returned to excavation.
- J: Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
- B: Compound was found in the blank and sample.

TABLE 2
 SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS FROM EXCAVATION
 SOUTHWEST ROYALTIES, INC.
 STATE J 2 #017
 INCIDENT #nAPP2511834534 (Well Pad)

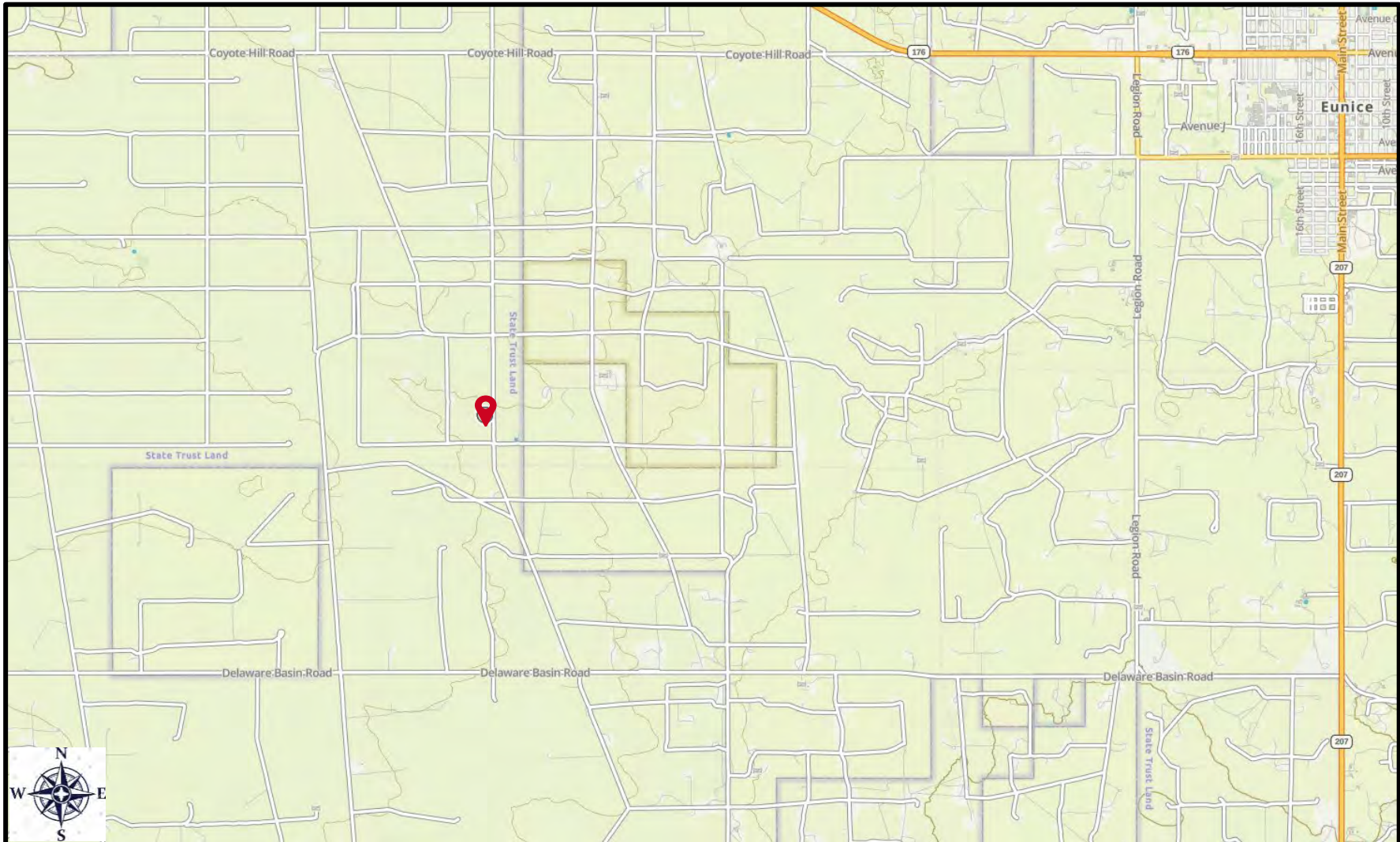
Sample ID	Sample Date	Sample Depth	Soil Status	TPH	TPH (DRO)	TPH	Total TPH	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	Chloride
				(GRO)	(MRO)	(MRO)							
NMOCD Closure Criteria				milligrams per kilogram (mg/kg)									
				100	10	-	-	-	-	-	50	600	
Confirmation Sidewall Samples													
S-1	07/24/25	0-1.5'	Excavated	<14.5	188	<15.1	188	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	38.4
S-1	08/07/25	0-1.5'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00138	<0.00198	0.00158 J	<0.00227	<0.00227	5.15 J
S-2	07/24/25	0-1.5'	Excavated	<14.5	148	<15.1	148	<0.00140	<0.00201	<0.00109	<0.00229	<0.00229	97.6
S-2	08/07/25	0-1.5'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00138	<0.00198	0.00126 J	<0.00226	<0.00226	4.23 J
S-3	07/24/25	0-1.5'	In Situ	<14.5	63.8	<15.1	63.8	<0.00138	<0.00198	<0.00108	<0.00226	<0.00226	16.4
S-4	07/24/25	0-1.5'	In Situ	<14.4	<15.0	<15.0	<15.0	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	23.9
S-5	07/24/25	0-1.5'	In Situ	<14.5	27.2 J	<15.1	27.2 J	<0.00140	<0.00201	<0.00110	<0.00230	<0.00230	7.44 J
S-6	07/24/25	0-1.5'	Excavated	<14.5	119	<15.1	119	<0.00138	<0.00198	<0.00108	<0.00226	<0.00226	19.8
S-6	08/07/25	0-2'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00140	<0.00201	0.00138 J	<0.00229	<0.00229	3.55 J
S-7	07/24/25	0-4'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	55.5
S-8	07/24/25	0-4'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00140	<0.00201	<0.00109	<0.00229	<0.00229	7.74 J
S-9	07/24/25	0-4'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00141	<0.00202	<0.00110	<0.00231	<0.00231	10.6
S-10	07/24/25	0-4'	Excavated	<14.5	251	<15.1	251	<0.00140	<0.00201	<0.00110	<0.00230	<0.00230	7.94 J
S-10	08/07/25	0-4.5'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	3.98 J
S-11	07/24/25	0-4'	Excavated	<14.5	297	<15.1	297	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	7.21 J
S-11	08/07/25	0-4.5'	In Situ	<14.5	17.8 J B	18.0 J	35.8 J	<0.00141	<0.00202	<0.00110	<0.00231	<0.00231	3.00 J
S-12	07/24/25	0-4'	Excavated	<14.5	591	<15.1	591	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	6.61 J
S-12	08/07/25	0-4.5'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00140	<0.00202	0.00158 J	<0.00230	<0.00230	3.09 J
S-13	07/24/25	0-3'	In Situ	<14.5	82.0	<15.1	82.0	<0.00138	<0.00198	<0.00108	<0.00226	<0.00226	15.7
Confirmation Bottom Samples													
B-1	07/24/25	1.5'	In Situ	<14.5	15.2 J	<15.1	15.2 J	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	14.8
B-2	07/24/25	1.5'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00140	<0.00201	<0.00109	<0.00229	<0.00229	10.1
B-3	07/24/25	1.5'	Excavated	<14.5	679	<15.1	679	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	493
B-3	08/07/25	2'	In Situ	<14.5	18.1 J B	17.0 J	35.1 J	<0.00138	<0.00199	0.00154 J	<0.00227	<0.00227	4.38 J
B-4	07/24/25	1.5'	Excavated	<14.5	676	<15.1	676	<0.00138	<0.00198	<0.00108	<0.00227	<0.00227	10.7
B-4	08/07/25	2'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	4.20 J
B-5	07/24/25	1.5'	Excavated	<14.5	2,480	<15.1	2,480	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	879
B-5	08/07/25	2'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00139	<0.00200	0.00187 J	<0.00229	<0.00229	3.43 J
B-6	07/24/25	1.5'	In Situ	<14.5	31.3 J	<15.1	31.3 J	<0.00139	<0.00200	<0.00109	<0.00229	<0.00229	17.4
B-7	07/24/25	1.5'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00140	<0.00201	<0.00109	<0.00229	<0.00229	55.3
B-8	07/24/25	3'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00140	<0.00201	<0.00109	<0.00229	<0.00229	5.88 J
B-9	07/24/25	4'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00141	<0.00202	<0.00110	<0.00231	<0.00231	10.5
B-10	07/24/25	4'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	8.03 J
B-11	07/24/25	4'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	6.48 J
B-12	07/24/25	4'	Excavated	<14.5	132	<15.1	132	<0.00141	<0.00202	<0.00110	<0.00231	<0.00231	9.87 J
B-12	08/07/25	4.5'	In Situ	<14.5	<15.1	18.7 J	18.7 J	<0.00139	<0.00200	0.00195 J	<0.00229	<0.00229	4.33 J
B-13	07/24/25	4'	Excavated	<14.5	203	<15.1	203	<0.00140	<0.00201	<0.00110	<0.00230	<0.00230	13.9
B-13	08/07/25	4.5'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00139	<0.00200	0.00220	<0.00229	<0.00229	3.30 J
B-14	07/24/25	4'	In Situ	<14.5	<15.1	<15.1	<15.1	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	5.80 J
B-15	07/24/25	4'	In Situ	<14.5	99.2	<15.1	99.2	<0.00139	<0.00200	<0.00109	<0.00229	<0.00229	4.23 J
Backfill Soil Sample													
Backfill 2	03/04/26	---	Backfilled	50.0	20	<50.0	70	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	50.0



Notes:

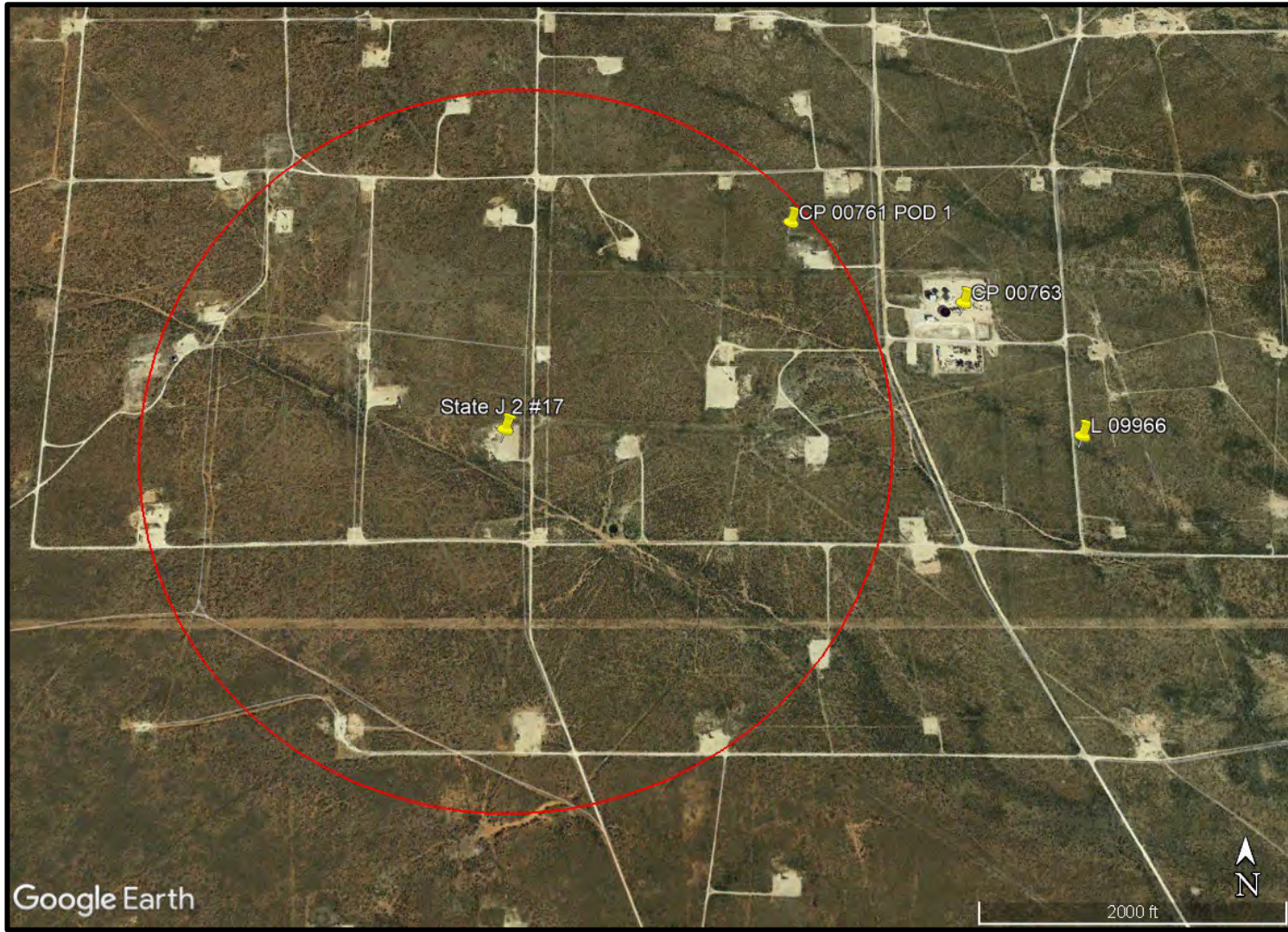
- GRO: Gasoline Range Organics
- DRO: Diesel Range Organics
- MRO: Motor Oil Range Organics
- : No NMOCD Closure Criteria established.
- bgs: Below Ground Surface
- Bold indicates the COC was above the appropriate laboratory method/sample detection limit.
- < indicates the COC was below the appropriate laboratory method/sample detection limit.
- Bold and yellow highlighting indicates the COC was above the appropriate NMOCD Closure Criteria.
- Green highlighting and italic font indicates soil was excavated, sprayed with Microblaze, and returned to excavation.
- J: Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
- B: Compound was found in the blank and sample.






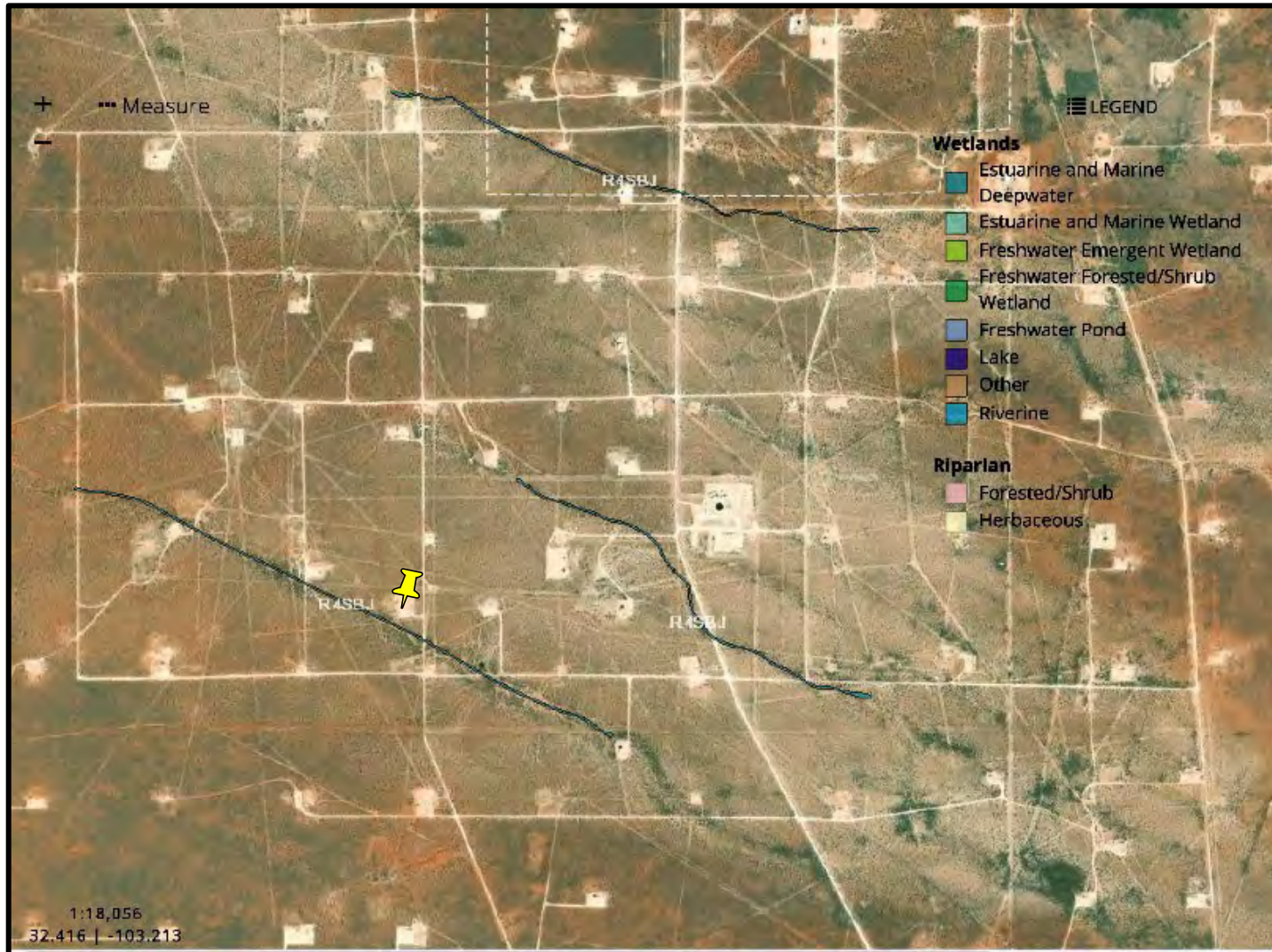
FIGURES



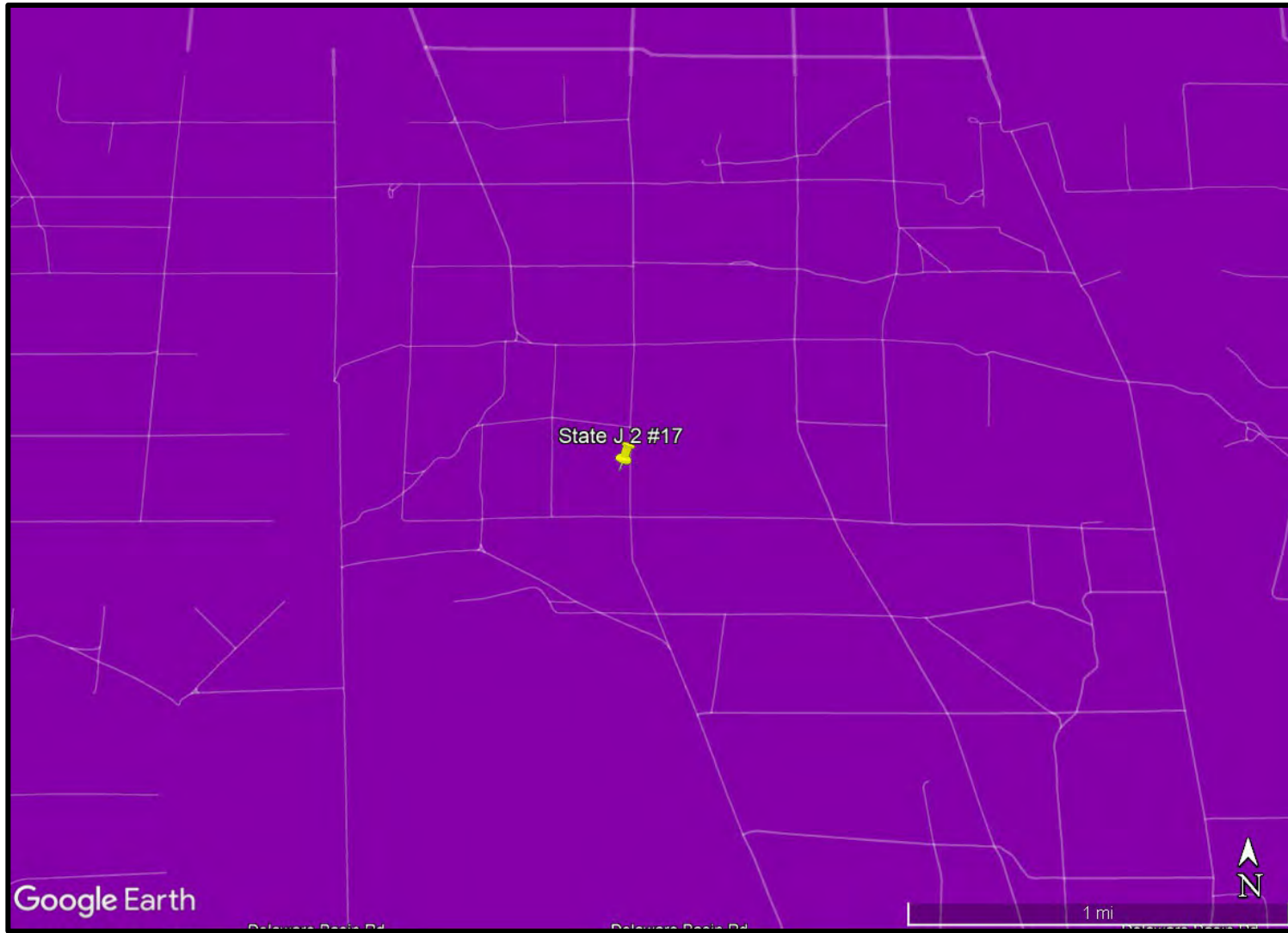
<p>LEGEND:</p> <p> Site Location</p>	<p align="center"> Figure 1 Site Location Map Southwest Royalties, Inc. State J 2 #017 Lea County, New Mexico </p>	<p align="center"> Drafted by: CC Checked by: CC Draft: Feb. 6, 2025 GPS: 32.4172592° -103.2306595° Base Map from GAIA Topo </p>	
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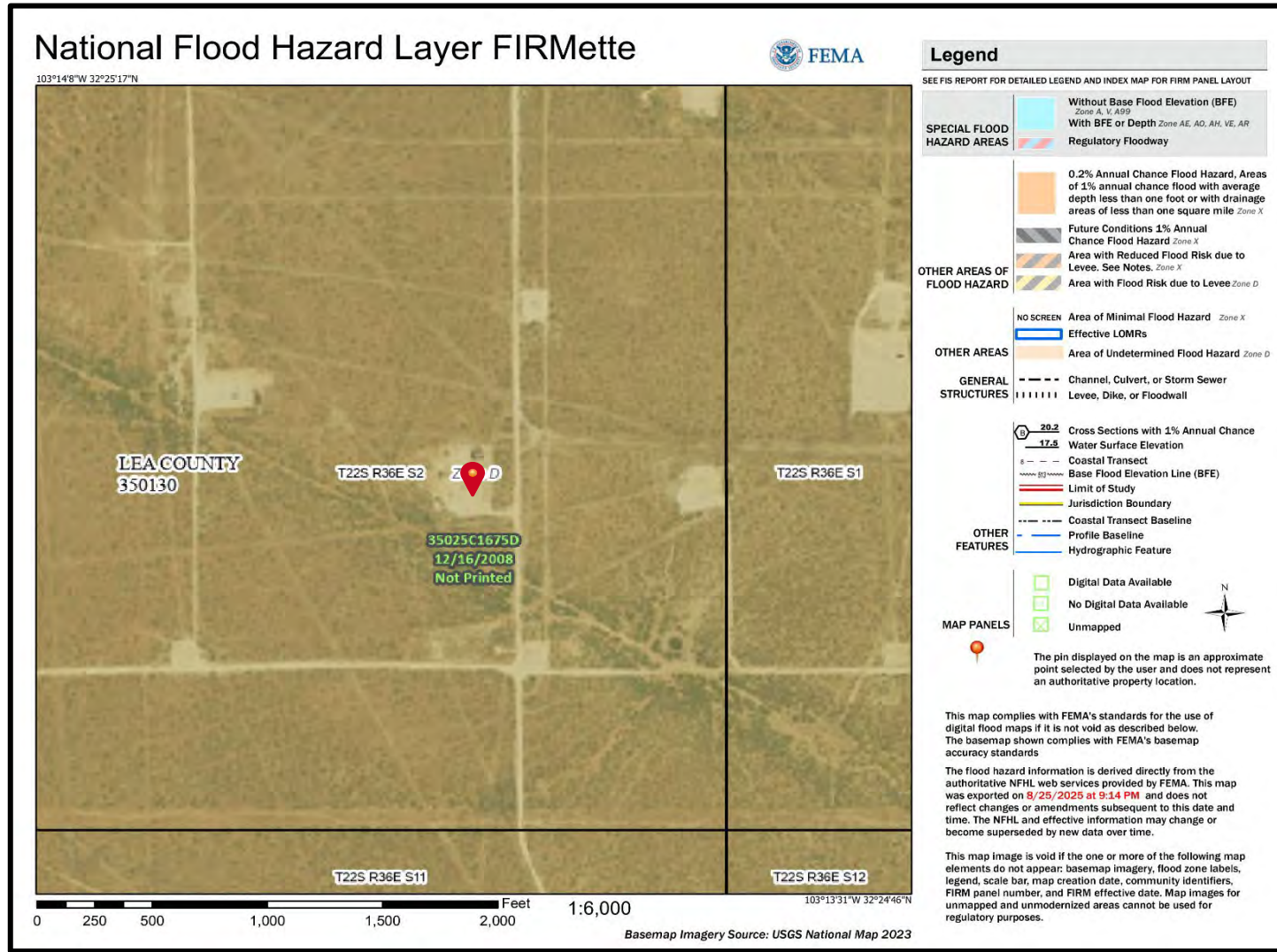
LEGEND:  Site and Water Well Locations  0.5-Mile Radius	<p align="center">Figure 2</p> <p align="center">Wellhead Protection Area Map</p> <p align="center">Southwest Royalties, Inc.</p> <p align="center">State J 2 #017</p> <p align="center">Lea County, New Mexico</p>	Drafted by: CC Checked by: CC	
		Draft: April 6, 2025	
GPS: 32.4172592° -103.2306595°			
Base map from Google Earth Pro			



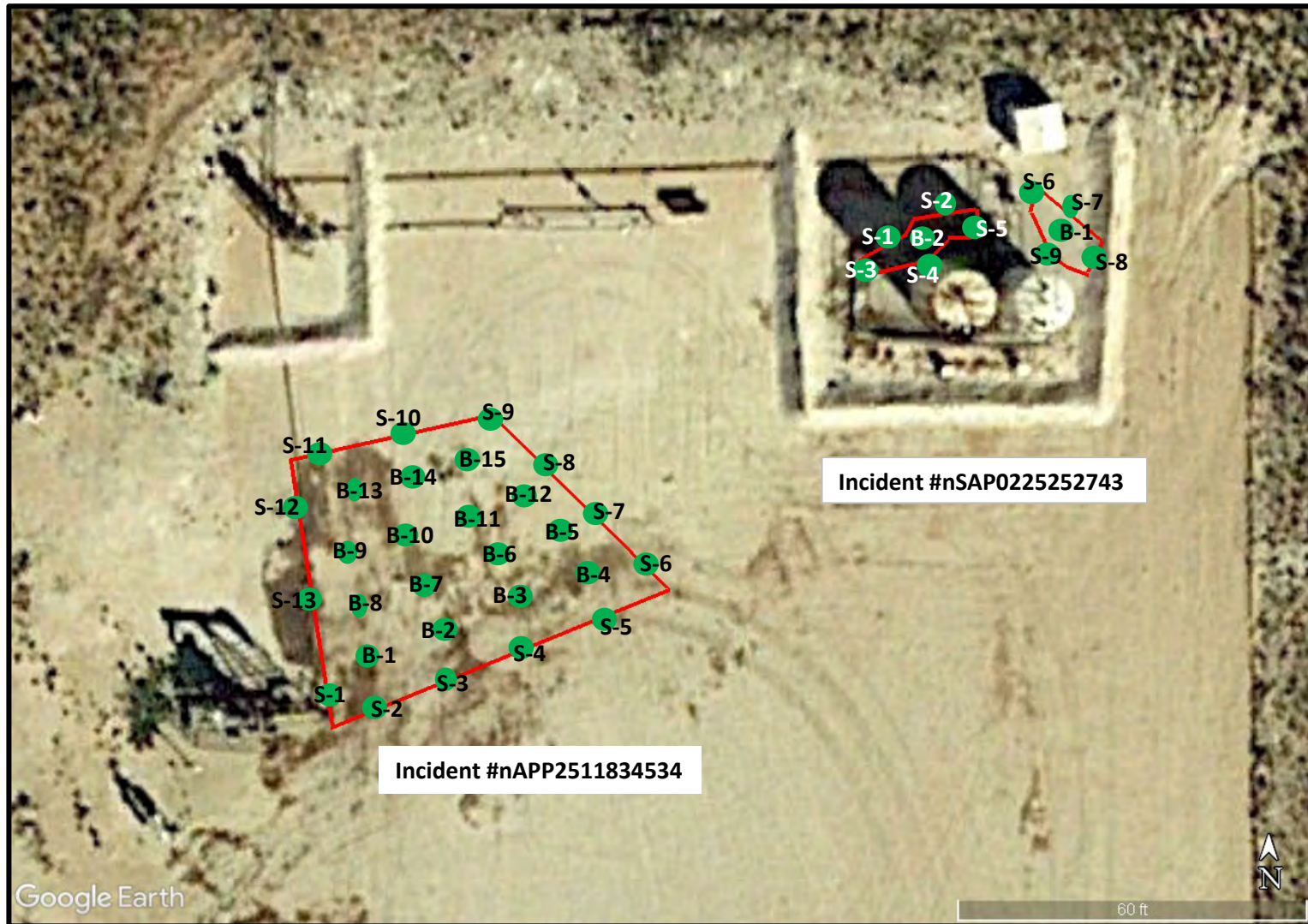
LEGEND:  Site Location	Figure 3 National Wetland Inventory Map Southwest Royalties, Inc. State J 2 #017 Lea County, New Mexico	Drafted by: CC Checked by: CC	
		Draft: April 6, 2025	
GPS: 32.4172592° -103.2306595°			
Base map from US Fish & Wildlife Service			



LEGEND:  Low Karst Potential  Medium Karst Potential  High Karst Potential	Figure 4 Karst Potential Map Southwest Royalties, Inc. State J 2 #017 Lea County, New Mexico	Drafted by: CC Checked by: CC	
		Draft: April 6, 2025	
GPS: 32.4172592° -103.2306595°			
Base map from Google Earth Pro and BLM			



<p>LEGEND:</p> Site Location	<p>Figure 5 FEMA Floodplain Map Southwest Royalties, Inc. State J 2 #017 Lea County, New Mexico</p>	<p>Drafted by: CC Checked by: CC</p> <p>Draft: August 25, 2025</p> <p>GPS: 32.4172592° -103.2306595°</p> <p>Base Map from FEMA</p>	
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LEGEND: Sample Location with Sample Number Excavation Boundary	<p align="center">Figure 6</p> <p align="center">Sample Location Map</p> <p>Southwest Royalties, Inc. State J 2 #017 Lea County, New Mexico</p>	Drafted by: CC Checked by: CC	
		Draft: Aug. 24, 2025	
GPS: 32.4172592° -103.2306595°			
Base Map from Google Earth (2017)			



Appendix A: NMOSE Point of Diversion Summary

Water Right Summary



[get image list](#)

WR File Number: CP 00761	Subbasin: CP	Cross Reference:
Primary Purpose: SRO SECONDARY RECOVERY OF OIL		
Primary Status: NOI Notice of Intention		
Total Acres:	Subfile:	Header:
Total Diversion: 0.000	Cause/Case:	
Owner: CHEVRON USA INC	Owner Class: Owner	

Documents on File

(acre-ft)

Transaction Images	Trn #	Doc	File/Act	Status 1	Status 2	Transaction Desc.	From/To	Acres	Diversion
.get images	601953	NOIAP	1991-05-06	NOI	MTR	CP 00761	T	0.000	1130.000

Current Points of Diversion

POD Number	Well Tag	Source	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map	Other Location Desc
CP 00761 POD1		Artesian	SE	SW	NW	01	22S	36E	666964.0	3588569.0 *		

* UTM location was derived from PLSS - see Help

Priority Summary

Priority	Status	Acres	Diversion	POD Number	Source
1991-05-06	NOI	0.000	0.000	CP 00761 POD1	Artesian

Place of Use

Q256	Q64	Q16	Q4	Sec	Tws	Rng	Acres	Diversion	CU	Use	Priority	Status	Other Location Desc
							0.000	1130.000		SRO	1991-05-06	NOI	NO PLACE OF USE GIVEN

Source

Acres	Diversion	CU	Use	Priority	Source	Description
0.000	1130.000		SRO	1991-05-06	GW	

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

4/5/25 11:37 PM MST

Water Rights Summary

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Appendix B: Biological Desktop Review

Project code: 2025-0079048

04/06/2025 05:53:43 UTC

PROJECT SUMMARY

Project Code: 2025-0079048
Project Name: State J 2 #017
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/@32.4174195,-103.23131530779142,14z>



Counties: Lea County, New Mexico

Project code: 2025-0079048

04/06/2025 05:53:43 UTC

BIRDS

NAME	STATUS
Lesser Prairie-chicken <i>Tympanuchus pallidicinctus</i> Population: Southern DPS No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/1924	Endangered
Northern Aplomado Falcon <i>Falco femoralis septentrionalis</i> Population: U.S.A (AZ, NM) No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/1923	Experimental Population, Non- Essential

INSECTS

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

CRITICAL HABITATS

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

YOU ARE STILL REQUIRED TO DETERMINE IF YOUR PROJECT(S) MAY HAVE EFFECTS ON ALL ABOVE LISTED SPECIES.



Appendix C: Photographic Documentation

APPENDIX C
STATE J 2 #017



View to NW of backfilled excavation at wellhead (nAPP2511834534).



View to NW of backfilled excavation at wellhead (nAPP2511834534).



View to SW of backfilled excavation at wellhead (nAPP2511834534).



View to E of backfilled excavations at battery (nSAP0225252743).



View to NW of backfilled excavations at battery (nSAP0225252743).



View to S of backfilled excavations at battery (nSAP0225252743).



View to SE of backfilled excavations at battery (nSAP0225252743).



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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 3/13/2026 9:33:08 AM

JOB DESCRIPTION

State J 2 #17
 Lea County NM

JOB NUMBER

880-69227-1

Eurofins Midland
 1211 W. Florida Ave
 Midland TX 79701



Eurofins Midland

Job Notes

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

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

Authorization



Generated
3/13/2026 9:33:08 AM

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

Client: Crain Environmental
Project/Site: State J 2 #17

Laboratory Job ID: 880-69227-1
SDG: Lea County NM

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Definitions/Glossary

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-69227-1
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
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

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

Case Narrative

Client: Crain Environmental
Project: State J 2 #17

Job ID: 880-69227-1

Job ID: 880-69227-1

Eurofins Midland

Job Narrative 880-69227-1

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

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

Receipt

The samples were received on 3/5/2026 2:47 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -2.5°C.

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: Backfill 2 (880-69227-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike (MS) recoveries for preparation batch 880-134146 and analytical batch 880-134131 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

Diesel Range Organics

Method 8015B NM: The laboratory control sample duplicate (LCSD) for preparation batch 880-134645 and analytical batch 880-134695 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28). Since only an acceptable LCS is required per the method, the data has been qualified and reported.

Method 8015B NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-134645 and analytical batch 880-134695 was outside control limits. Sample matrix interference and/or non-homogeneity is suspected.

Method 8015B NM: Surrogate recovery for the following samples were outside control limits: (LCSD 880-134645/3-A), (890-9601-A-3-E) and (890-9601-A-3-F MS). 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

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

Eurofins Midland

Client Sample Results

Client: Crain Environmental
 Project/Site: State J 2 #17

Job ID: 880-69227-1
 SDG: Lea County NM

Client Sample ID: Backfill 1

Lab Sample ID: 880-69227-1

Date Collected: 03/04/26 08:00

Matrix: Solid

Date Received: 03/05/26 14:47

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/07/26 14:43	03/08/26 15:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/07/26 14:43	03/08/26 15:52	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/07/26 14:43	03/08/26 15:52	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/07/26 14:43	03/08/26 15:52	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/07/26 14:43	03/08/26 15:52	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/07/26 14:43	03/08/26 15:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	03/07/26 14:43	03/08/26 15:52	1
1,4-Difluorobenzene (Surr)	85		70 - 130	03/07/26 14:43	03/08/26 15:52	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			03/08/26 15:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	70		50.0		mg/Kg			03/12/26 19:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	50.0	*+	50.0		mg/Kg		03/11/26 17:12	03/12/26 19:31	1
Diesel Range Organics (Over C10-C28)	20	** *1	50.0		mg/Kg		03/11/26 17:12	03/12/26 19:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/11/26 17:12	03/12/26 19:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130	03/11/26 17:12	03/12/26 19:31	1
o-Terphenyl	111		70 - 130	03/11/26 17:12	03/12/26 19:31	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	50.0		9.96		mg/Kg			03/09/26 19:20	1

Client Sample ID: Backfill 2

Lab Sample ID: 880-69227-2

Date Collected: 03/04/26 08:05

Matrix: Solid

Date Received: 03/05/26 14:47

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		03/07/26 14:43	03/08/26 16:12	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/07/26 14:43	03/08/26 16:12	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/07/26 14:43	03/08/26 16:12	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/07/26 14:43	03/08/26 16:12	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/07/26 14:43	03/08/26 16:12	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/07/26 14:43	03/08/26 16:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130	03/07/26 14:43	03/08/26 16:12	1
1,4-Difluorobenzene (Surr)	90		70 - 130	03/07/26 14:43	03/08/26 16:12	1

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Client Sample Results

Client: Crain Environmental
 Project/Site: State J 2 #17

Job ID: 880-69227-1
 SDG: Lea County NM

Client Sample ID: Backfill 2

Lab Sample ID: 880-69227-2

Date Collected: 03/04/26 08:05

Matrix: Solid

Date Received: 03/05/26 14:47

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			03/08/26 16:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			03/12/26 19:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U **	49.8		mg/Kg		03/11/26 17:12	03/12/26 19:50	1
Diesel Range Organics (Over C10-C28)	<49.8	U ** *1	49.8		mg/Kg		03/11/26 17:12	03/12/26 19:50	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/11/26 17:12	03/12/26 19:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130	03/11/26 17:12	03/12/26 19:50	1
o-Terphenyl	102		70 - 130	03/11/26 17:12	03/12/26 19:50	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.8		10.0		mg/Kg			03/09/26 19:25	1

Surrogate Summary

Client: Crain Environmental
 Project/Site: State J 2 #17

Job ID: 880-69227-1
 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)
880-69107-A-1-B MS	Matrix Spike	118	97
880-69107-A-1-C MSD	Matrix Spike Duplicate	130	89
880-69227-1	Backfill 1	116	85
880-69227-2	Backfill 2	132 S1+	90
LCS 880-134146/1-A	Lab Control Sample	112	94
LCSD 880-134146/2-A	Lab Control Sample Dup	120	94
MB 880-134091/5-A	Method Blank	117	91
MB 880-134146/5-A	Method Blank	116	91

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

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-69227-1	Backfill 1	99	111
880-69227-2	Backfill 2	92	102
890-9601-A-3-F MS	Matrix Spike	137 S1+	121
890-9601-A-3-G MSD	Matrix Spike Duplicate	89	81
LCS 880-134645/2-A	Lab Control Sample	121	112
LCSD 880-134645/3-A	Lab Control Sample Dup	153 S1+	138 S1+
MB 880-134645/1-A	Method Blank	119	129

Surrogate Legend
 1CO = 1-Chlorooctane
 OTPH = o-Terphenyl

QC Sample Results

Client: Crain Environmental
 Project/Site: State J 2 #17

Job ID: 880-69227-1
 SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-134091/5-A
 Matrix: Solid
 Analysis Batch: 134131

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 134091

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/06/26 12:33	03/07/26 19:47	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/06/26 12:33	03/07/26 19:47	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/06/26 12:33	03/07/26 19:47	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/06/26 12:33	03/07/26 19:47	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/06/26 12:33	03/07/26 19:47	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/06/26 12:33	03/07/26 19:47	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	03/06/26 12:33	03/07/26 19:47	1
1,4-Difluorobenzene (Surr)	91		70 - 130	03/06/26 12:33	03/07/26 19:47	1

Lab Sample ID: MB 880-134146/5-A
 Matrix: Solid
 Analysis Batch: 134131

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 134146

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/07/26 14:43	03/08/26 10:28	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/07/26 14:43	03/08/26 10:28	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/07/26 14:43	03/08/26 10:28	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/07/26 14:43	03/08/26 10:28	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/07/26 14:43	03/08/26 10:28	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/07/26 14:43	03/08/26 10:28	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	03/07/26 14:43	03/08/26 10:28	1
1,4-Difluorobenzene (Surr)	91		70 - 130	03/07/26 14:43	03/08/26 10:28	1

Lab Sample ID: LCS 880-134146/1-A
 Matrix: Solid
 Analysis Batch: 134131

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 134146

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1034		mg/Kg		103	70 - 130
Toluene	0.100	0.09546		mg/Kg		95	70 - 130
Ethylbenzene	0.100	0.1079		mg/Kg		108	70 - 130
m-Xylene & p-Xylene	0.200	0.2186		mg/Kg		109	70 - 130
o-Xylene	0.100	0.1081		mg/Kg		108	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: LCSD 880-134146/2-A
 Matrix: Solid
 Analysis Batch: 134131

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 134146

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09532		mg/Kg		95	70 - 130	8	35

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QC Sample Results

Client: Crain Environmental
 Project/Site: State J 2 #17

Job ID: 880-69227-1
 SDG: Lea County NM

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

Lab Sample ID: LCSD 880-134146/2-A
 Matrix: Solid
 Analysis Batch: 134131

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 134146

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.09008		mg/Kg		90	70 - 130	6	35
Ethylbenzene	0.100	0.1022		mg/Kg		102	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.2105		mg/Kg		105	70 - 130	4	35
o-Xylene	0.100	0.1070		mg/Kg		107	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	120		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: 880-69107-A-1-B MS
 Matrix: Solid
 Analysis Batch: 134131

Client Sample ID: Matrix Spike
 Prep Type: Total/NA
 Prep Batch: 134146

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.09385		mg/Kg		94	70 - 130
Toluene	<0.00200	U F1	0.100	0.07944		mg/Kg		79	70 - 130
Ethylbenzene	<0.00200	U F1 F2	0.100	0.08119		mg/Kg		81	70 - 130
m-Xylene & p-Xylene	<0.00399	U F1	0.200	0.1660		mg/Kg		83	70 - 130
o-Xylene	<0.00200	U F1	0.100	0.08360		mg/Kg		84	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	118		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 880-69107-A-1-C MSD
 Matrix: Solid
 Analysis Batch: 134131

Client Sample ID: Matrix Spike Duplicate
 Prep Type: Total/NA
 Prep Batch: 134146

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.07532		mg/Kg		75	70 - 130	22	35
Toluene	<0.00200	U F1	0.100	0.06246	F1	mg/Kg		62	70 - 130	24	35
Ethylbenzene	<0.00200	U F1 F2	0.100	0.05600	F1 F2	mg/Kg		56	70 - 130	37	35
m-Xylene & p-Xylene	<0.00399	U F1	0.200	0.1162	F1	mg/Kg		58	70 - 130	35	35
o-Xylene	<0.00200	U F1	0.100	0.06332	F1	mg/Kg		63	70 - 130	28	35

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

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

Lab Sample ID: MB 880-134645/1-A
 Matrix: Solid
 Analysis Batch: 134695

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 134645

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/11/26 17:12	03/12/26 11:55	1

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QC Sample Results

Client: Crain Environmental
 Project/Site: State J 2 #17

Job ID: 880-69227-1
 SDG: Lea County NM

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

Lab Sample ID: MB 880-134645/1-A
Matrix: Solid
Analysis Batch: 134695

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 134645

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/11/26 17:12	03/12/26 11:55	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/11/26 17:12	03/12/26 11:55	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1-Chlorooctane	119		70 - 130	03/11/26 17:12	03/12/26 11:55	1
o-Terphenyl	129		70 - 130	03/11/26 17:12	03/12/26 11:55	1

Lab Sample ID: LCS 880-134645/2-A
Matrix: Solid
Analysis Batch: 134695

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 134645

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics (Over C10-C28)	1000	1147		mg/Kg		115	70 - 130

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1-Chlorooctane	121		70 - 130
o-Terphenyl	112		70 - 130

Lab Sample ID: LCSD 880-134645/3-A
Matrix: Solid
Analysis Batch: 134695

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 134645

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	
								RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1473	*+	mg/Kg		147	70 - 130	19	20
Diesel Range Organics (Over C10-C28)	1000	1475	*+ *1	mg/Kg		147	70 - 130	25	20

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
1-Chlorooctane	153	S1+	70 - 130
o-Terphenyl	138	S1+	70 - 130

Lab Sample ID: 890-9601-A-3-F MS
Matrix: Solid
Analysis Batch: 134695

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 134645

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics (Over C10-C28)	<49.9	U ** *1 F2	1000	1060		mg/Kg		104	70 - 130

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
1-Chlorooctane	137	S1+	70 - 130
o-Terphenyl	121		70 - 130

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QC Sample Results

Client: Crain Environmental
 Project/Site: State J 2 #17

Job ID: 880-69227-1
 SDG: Lea County NM

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

Lab Sample ID: 890-9601-A-3-G MSD
 Matrix: Solid
 Analysis Batch: 134695

Client Sample ID: Matrix Spike Duplicate
 Prep Type: Total/NA
 Prep Batch: 134645

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U ** F1	1000	671.7	F1 F2	mg/Kg		67	70 - 130	33	20
Diesel Range Organics (Over C10-C28)	<49.9	U ** *1 F2	1000	723.0	F2	mg/Kg		71	70 - 130	38	20
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	89		70 - 130								
o-Terphenyl	81		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-134224/1-A
 Matrix: Solid
 Analysis Batch: 134282

Client Sample ID: Method Blank
 Prep Type: Soluble

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	<10.0	U	10.0		mg/Kg			03/09/26 18:03	1

Lab Sample ID: LCS 880-134224/2-A
 Matrix: Solid
 Analysis Batch: 134282

Client Sample ID: Lab Control Sample
 Prep Type: Soluble

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec	RPD	Limit
		Result	Qualifier				Limits		
Chloride	250	245.5		mg/Kg		98	90 - 110		

Lab Sample ID: LCSD 880-134224/3-A
 Matrix: Solid
 Analysis Batch: 134282

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

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	Limit
		Result	Qualifier				Limits		
Chloride	250	247.1		mg/Kg		99	90 - 110	1	20

Lab Sample ID: 880-69227-2 MS
 Matrix: Solid
 Analysis Batch: 134282

Client Sample ID: Backfill 2
 Prep Type: Soluble

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Chloride	10.8		250	260.6		mg/Kg		100	90 - 110		

Lab Sample ID: 880-69227-2 MSD
 Matrix: Solid
 Analysis Batch: 134282

Client Sample ID: Backfill 2
 Prep Type: Soluble

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Chloride	10.8		250	261.2		mg/Kg		100	90 - 110	0	20

QC Association Summary

Client: Crain Environmental
Project/Site: State J 2 #17Job ID: 880-69227-1
SDG: Lea County NM

GC VOA

Prep Batch: 134091

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-134091/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 134131

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-69227-1	Backfill 1	Total/NA	Solid	8021B	134146
880-69227-2	Backfill 2	Total/NA	Solid	8021B	134146
MB 880-134091/5-A	Method Blank	Total/NA	Solid	8021B	134091
MB 880-134146/5-A	Method Blank	Total/NA	Solid	8021B	134146
LCS 880-134146/1-A	Lab Control Sample	Total/NA	Solid	8021B	134146
LCSD 880-134146/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	134146
880-69107-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	134146
880-69107-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	134146

Prep Batch: 134146

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-69227-1	Backfill 1	Total/NA	Solid	5035	
880-69227-2	Backfill 2	Total/NA	Solid	5035	
MB 880-134146/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-134146/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-134146/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-69107-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
880-69107-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 134316

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-69227-1	Backfill 1	Total/NA	Solid	Total BTEX	
880-69227-2	Backfill 2	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 134645

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-69227-1	Backfill 1	Total/NA	Solid	8015NM Prep	
880-69227-2	Backfill 2	Total/NA	Solid	8015NM Prep	
MB 880-134645/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-134645/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-134645/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-9601-A-3-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-9601-A-3-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 134695

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-69227-1	Backfill 1	Total/NA	Solid	8015B NM	134645
880-69227-2	Backfill 2	Total/NA	Solid	8015B NM	134645
MB 880-134645/1-A	Method Blank	Total/NA	Solid	8015B NM	134645
LCS 880-134645/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	134645
LCSD 880-134645/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	134645
890-9601-A-3-F MS	Matrix Spike	Total/NA	Solid	8015B NM	134645
890-9601-A-3-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	134645

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QC Association Summary

Client: Crain Environmental
 Project/Site: State J 2 #17

Job ID: 880-69227-1
 SDG: Lea County NM

GC Semi VOA

Analysis Batch: 134761

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-69227-1	Backfill 1	Total/NA	Solid	8015 NM	
880-69227-2	Backfill 2	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 134224

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-69227-1	Backfill 1	Soluble	Solid	DI Leach	
880-69227-2	Backfill 2	Soluble	Solid	DI Leach	
MB 880-134224/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-134224/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-134224/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-69227-2 MS	Backfill 2	Soluble	Solid	DI Leach	
880-69227-2 MSD	Backfill 2	Soluble	Solid	DI Leach	

Analysis Batch: 134282

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-69227-1	Backfill 1	Soluble	Solid	300.0	134224
880-69227-2	Backfill 2	Soluble	Solid	300.0	134224
MB 880-134224/1-A	Method Blank	Soluble	Solid	300.0	134224
LCS 880-134224/2-A	Lab Control Sample	Soluble	Solid	300.0	134224
LCSD 880-134224/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	134224
880-69227-2 MS	Backfill 2	Soluble	Solid	300.0	134224
880-69227-2 MSD	Backfill 2	Soluble	Solid	300.0	134224

Lab Chronicle

Client: Crain Environmental
 Project/Site: State J 2 #17

Job ID: 880-69227-1
 SDG: Lea County NM

Client Sample ID: Backfill 1

Lab Sample ID: 880-69227-1

Date Collected: 03/04/26 08:00

Matrix: Solid

Date Received: 03/05/26 14:47

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	134146	03/07/26 14:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	134131	03/08/26 15:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			134316	03/08/26 15:52	SA	EET MID
Total/NA	Analysis	8015 NM		1			134761	03/12/26 19:31	SA	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10.00 mL	134645	03/11/26 17:12	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	134695	03/12/26 19:31	SA	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	134224	03/09/26 11:10	SA	EET MID
Soluble	Analysis	300.0		1			134282	03/09/26 19:20	CS	EET MID

Client Sample ID: Backfill 2

Lab Sample ID: 880-69227-2

Date Collected: 03/04/26 08:05

Matrix: Solid

Date Received: 03/05/26 14:47

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	134146	03/07/26 14:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	134131	03/08/26 16:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			134316	03/08/26 16:12	SA	EET MID
Total/NA	Analysis	8015 NM		1			134761	03/12/26 19:50	SA	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10.00 mL	134645	03/11/26 17:12	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	134695	03/12/26 19:50	SA	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	134224	03/09/26 11:10	SA	EET MID
Soluble	Analysis	300.0		1			134282	03/09/26 19:25	CS	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Crain Environmental
Project/Site: State J 2 #17

Job ID: 880-69227-1
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	06-30-26

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

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

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Method Summary

Client: Crain Environmental
 Project/Site: State J 2 #17

Job ID: 880-69227-1
 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: State J 2 #17

Job ID: 880-69227-1
SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
880-69227-1	Backfill 1	Solid	03/04/26 08:00	03/05/26 14:47	Texas
880-69227-2	Backfill 2	Solid	03/04/26 08:05	03/05/26 14:47	Texas

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880-69227 Chain of Custody

Chain of Custody

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

Environment Testing
Xenco



Project Manager:	Cindy Crain	Bill to: (if different)	Leasa Hale
Company Name:	Crain Environmental	Company Name:	SWR
Address:	2925 East 17th Street	Address:	P.O. Box 53570
City, State ZIP:	Odessa, TX 79761	City, State ZIP:	Midland, Texas 79710-3570
Phone:	(575) 441-7244	Email:	cindy.crain@gmail.com

Program: UST/PST PRP Downfields RR SU brfund
 State of Project: **NM**
 Reporting: Level II Level III PST/UST RRP Level IV
 Deliverables: EDD ADaPT Other:

ANALYSIS REQUEST										Preservative Codes	
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters	Pres. Code	None: NO	DI Water: H ₂ O	
Backfill 1	S	3/4/2026	0800	---	C	1	TPH 6015 M BTX Chlorides		Cool: Cool	MeOH: Me	
Backfill 2	S	3/4/2026	0805	---	C	1			HCL: HC	HNO ₃ : HN	
									H ₂ SO ₄ : H ₂	NaOH: Na	
									H ₃ PO ₄ : HP		
									NaHSO ₄ : NABIS		
									Na ₂ S ₂ O ₃ : NaSO ₃		
									Zn Acetate+NaOH: Zn		
									NaOH+Ascorbic Acid: SAPC		

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$50.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>Cindy Crain</i>	<i>Leasa Hale</i>	3.5.26 1417			



Login Sample Receipt Checklist

Client: Crain Environmental

Job Number: 880-69227-1
SDG Number: Lea County NM

Login Number: 69227

List Number: 1

Creator: Kramer, Jessica

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.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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Phone: (505) 476-3441

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Phone: (505) 629-6116

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

QUESTIONS

Action 564576

QUESTIONS

Operator: SOUTHWEST ROYALTIES INC P O BOX 53570 Midland, TX 79710	OGRID: 21355
	Action Number: 564576
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Prerequisites	
Incident ID (n#)	nSAP0225252743
Incident Name	NSAP0225252743 STATE J 2 #017 @ 30-025-33277
Incident Type	Produced Water Release
Incident Status	Reclamation Report Received
Incident Well	[30-025-33277] STATE J 2 #017

Location of Release Source	
<i>Please answer all the questions in this group.</i>	
Site Name	STATE J 2 #017
Date Release Discovered	08/26/2002
Surface Owner	State

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

Nature and Volume of Release	
<i>Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.</i>	
Crude Oil Released (bbls) Details	Cause: Corrosion Crude Oil Released: 1 BBL Recovered: 0 BBL Lost: 1 BBL.
Produced Water Released (bbls) Details	Cause: Corrosion Produced Water Released: 5 BBL Recovered: 0 BBL Lost: 5 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 564576

QUESTIONS (continued)

Operator: SOUTHWEST ROYALTIES INC P O BOX 53570 Midland, TX 79710	OGRID: 21355
	Action Number: 564576
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	<i>Unavailable.</i>

With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.

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	<i>Not answered.</i>

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

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

I hereby agree and sign off to the above statement	Name: Cindy Crain Email: cindy.crain@gmail.com Date: 03/18/2026
--	--

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QUESTIONS, Page 3

Action 564576

QUESTIONS (continued)

Operator: SOUTHWEST ROYALTIES INC P O BOX 53570 Midland, TX 79710	OGRID: 21355
	Action Number: 564576
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

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	Estimate or Other
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)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 100 (ft.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between 1 and 100 (ft.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride (EPA 300.0 or SM4500 Cl B)	465
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	14100
GRO+DRO (EPA SW-846 Method 8015M)	14100
BTEX (EPA SW-846 Method 8021B or 8260B)	1.1
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	06/17/2024
On what date will (or did) the final sampling or liner inspection occur	06/30/2025
On what date will (or was) the remediation complete(d)	07/14/2025
What is the estimated surface area (in square feet) that will be reclaimed	625
What is the estimated volume (in cubic yards) that will be reclaimed	103
What is the estimated surface area (in square feet) that will be remediated	625
What is the estimated volume (in cubic yards) that will be remediated	103

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed. The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 4

Action 564576

QUESTIONS (continued)

Operator: SOUTHWEST ROYALTIES INC P O BOX 53570 Midland, TX 79710	OGRID: 21355
	Action Number: 564576
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

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	fAB0000000061 TNM-55-95
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	No
OR is the off-site disposal site, to be used, an NMED facility	No
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No

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: Cindy Crain Email: cindy.crain@gmail.com Date: 03/18/2026
--	---

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

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QUESTIONS, Page 5

Action 564576

QUESTIONS (continued)

Operator: SOUTHWEST ROYALTIES INC P O BOX 53570 Midland, TX 79710	OGRID: 21355
	Action Number: 564576
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Deferral Requests Only	
<i>Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.</i>	
Requesting a deferral of the remediation closure due date with the approval of this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction	Yes
Please list or describe the production equipment and how (re)moving the equipment would cause major facility deconstruction	Two water storage tanks, stairs, a pump and piping connecting the ancillary equipment to the storage tanks. Removing the equipment would cause wells to be shut in and production to be halted while remediation was being conducted.
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	644
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	120
<i>Per Paragraph (2) of Subsection C of 19.15.29.12 NMAC if contamination is located in areas immediately under or around production equipment such as production tanks, wellheads and pipelines where remediation could cause a major facility deconstruction, the remediation, restoration and reclamation may be deferred with division written approval until the equipment is removed during other operations, or when the well or facility is plugged or abandoned, whichever comes first.</i>	
Enter the facility ID (F#) on which this deferral should be granted	Not answered.
Enter the well API (30-) on which this deferral should be granted	30-025-33277 STATE J 2 #017
Contamination does not cause an imminent risk to human health, the environment, or groundwater	True
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Cindy Crain Email: cindy.crain@gmail.com Date: 10/11/2025

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

General Information
Phone: (505) 629-6116

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QUESTIONS, Page 6

Action 564576

QUESTIONS (continued)

Operator: SOUTHWEST ROYALTIES INC P O BOX 53570 Midland, TX 79710	OGRID: 21355
	Action Number: 564576
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	558784
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	03/04/2026
What was the (estimated) number of samples that were to be gathered	1
What was the sampling surface area in square feet	105

Remediation Closure Request	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	625
What was the total volume (cubic yards) remediated	103
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	625
What was the total volume (in cubic yards) reclaimed	103
Summarize any additional remediation activities not included by answers (above)	Remediation of soil under and around the storage tanks was approved for deferral until time of abandonment, and was left in place.
<i>The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.	
I hereby agree and sign off to the above statement	Name: Cindy Crain Email: cindy.crain@gmail.com Date: 03/18/2026

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

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS, Page 7

Action 564576

QUESTIONS (continued)

Operator: SOUTHWEST ROYALTIES INC P O BOX 53570 Midland, TX 79710	OGRID: 21355
	Action Number: 564576
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Reclamation Report	
<i>Only answer the questions in this group if all reclamation steps have been completed.</i>	
Requesting a reclamation approval with this submission	Yes
What was the total reclamation surface area (in square feet) for this site	625
What was the total volume of replacement material (in cubic yards) for this site	103
<i>Per Paragraph (1) of Subsection D of 19.15.29.13 NMAC the reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. The soil cover must include a top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater.</i>	
Is the soil top layer complete and is it suitable material to establish vegetation	Yes
On what (estimated) date will (or was) the reseeded commence(d)	01/31/2028
Summarize any additional reclamation activities not included by answers (above)	As this is an active battery, the excavation was backfilled with caliche. Seeding will not be conducted until time of abandonment of the battery.
<i>The responsible party must attach information demonstrating they have complied with all applicable reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any proposed reseeded plans or relevant field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13 NMAC.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.	
I hereby agree and sign off to the above statement	Name: Cindy Crain Email: cindy.crain@gmail.com Date: 03/18/2026

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QUESTIONS, Page 8

Action 564576

QUESTIONS (continued)

Operator: SOUTHWEST ROYALTIES INC P O BOX 53570 Midland, TX 79710	OGRID: 21355
	Action Number: 564576
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Revegetation Report	
<i>Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.</i>	
Requesting a restoration complete approval with this submission	No
<i>Per Paragraph (4) of Subsection (D) of 19.15.29.13 NMAC for any major or minor release containing liquids, the responsible party must notify the division when reclamation and re-vegetation are complete.</i>	

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Santa Fe, NM 87505

CONDITIONS

Action 564576

CONDITIONS

Operator: SOUTHWEST ROYALTIES INC P O BOX 53570 Midland, TX 79710	OGRID: 21355
	Action Number: 564576
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

CONDITIONS

Created By	Condition	Condition Date
nvez	Reclamation report approved. Pending re-vegetation report.	4/6/2026