



Chris Brand
Environmental Remediation/ Facility Decom Advisor

VIA ELECTRONIC MAIL

April 24, 2025

New Mexico Oil Conservation Division
District I
1625 N. French Drive
Hobbs, New Mexico 88240

Re: West Lovington Unit #072
Soil Remediation Summary and Closure Request Report
Incident # nTO1424541014
Case No. 1RP-3298

Dear Whom it May Concern:

Please find enclosed for your files, copies of the following:
West Lovington Unit #072 Soil Remediation Summary and Closure Request Report

The report was prepared by Arcadis U.S., Inc. (Arcadis) on behalf of Chevron Environmental Management Company (CEMC) for Chevron Midcontinent L.P.

Please do not hesitate to call Scott Foord with Arcadis at 713.953.4853, or myself at 661.401.0359, should you have any questions.

Sincerely,

Chris Brand

Encl. Soil Remediation Summary and Closure Request Report
 West Lovington Unit #072

cc. Scott Foord – Arcadis
 Morgan Jordan – Arcadis

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Chevron Environmental Management Company

2025 Soil Remediation Summary and Closure Request Report

West Lovington Unit #072

Incident # nTO1424541014

Case No. 1RP-3298

Lea County, New Mexico

May 2025

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2025 Soil Remediation Summary and Closure Request Report
West Lovington Unit #072

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West Lovington Unit #072

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2025 Soil Remediation Summary and Closure Request Report

1 Introduction

Arcadis U.S., Inc. (Arcadis) has prepared this Soil Remediation Summary and Closure Request Report for Chevron Environmental Management Company (CEMC) on behalf of Chevron U.S.A. Inc., through its division Chevron North America Exploration and Production Company, for the release site known as the West Lovington Unit #072 (Site) located at coordinates: 32.864039, -103.363912.

2 Project Summary

The Site is located on state land approximately 5.40 miles south of the City of Lovington in Unit F, Section 4, Township 17 South, Range 36 East, Lea County, New Mexico. The site is located within a low karst area. A Site Location Map is included as **Figure 1** and a Topographic Map as **Figure 2**.

According to the Initial C-141 Form, on November 13, 2013, the well was shut in for 24-hours for chemical treatment. While the well was shut in, the well reached a higher bottom hole pressure than the stuffing box rating and the rams did not hold, leading to a stuffing box leak of approximately 0.55 barrels (bbls) of oil and 10 bbls of produced water at the Site. The spill area was approximately 108 feet (ft) by 18 ft according to the Initial C-141 Form that was submitted on November 23, 2013. The Initial C-141 Form was approved on September 2, 2014, and assigned remediation permit number 1RP-3298 and incident number nTO1424541014.

3 Cultural and Biological Compliance

No site assessment or remediation activities were completed at or near the site on previously undisturbed areas that would require documented compliance with the Cultural Properties Protection Rule.

4 Threatened and Endangered Species

According to the U.S. Fish & Wildlife Information Service (USFWS) for Planning and Consulting (IPaC) database, the Site is located in the following protection areas: lesser prairie-chicken, northern aplomado falcon, and the monarch butterfly. There are no USFWS designated critical habitats surrounding the Site.

The Site is not located near any Bureau of Land Management (BLM) Carlsbad Field Office (CFO) planning areas for lesser prairie-chicken or any other BLM CFO mapped habitat for special status species, additionally, the Site is not located near any BLM CFO mapped special status plant species (SSPS) habitat. The Site is mapped as priority level 4 for both crucial habitat and species of concern by the New Mexico Crucial Habitat Assessment Tool (CHAT) and no species of concern under the Biota Information System of New Mexico (BISON-M) are likely to occur at the Site.

5 Soil Assessment Activities

In January 2024, April 2024, and December 2024, Arcadis performed site assessment activities to evaluate soil impacts stemming from the release. A total of seventeen (17) sample points (SB-1 through SB-17) were advanced to depths ranging from the surface to 11 feet below ground surface (bgs) inside and surrounding the release area to evaluate the horizontal and vertical extents of the release. Additionally in December 2024, soil

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samples were collected at four (4) additional locations across the well pad (T-1 through T-4). Horizontal and vertical delineation was assessed in each cardinal direction to determine the potential area of concern. Arcadis used this data and field screening to guide proposed remediation activities prior to collecting any confirmation samples.

Following initial assessment activities Chevron submitted a Remediation Work Plan to the NMOCD and the New Mexico State Land Office (NMSLO) in February 2025 proposing excavation and confirmation soil sampling activities on the well pad. The Remediation Work Plan was approved by the NMOCD with conditions on January 22, 2025, and approved by the NMSLO on March 5, 2025. The approved Work Plan is included as **Appendix A**.

Per the approved Work Plan with conditions, the NMOCD requested additional delineation samples be collected. This correspondence is presented in **Appendix B**. On March 12, 2005, four sample points (SB-18, SB-19, SB-20, and T-5) were advanced to further delineate the extent of the release to the south, east, and southwest of SB-17, and approximately 20 ft south of T-1. The sample points were advanced to 4 ft bgs and discrete samples were collected at 0.5 ft, 1 ft, 2 ft, 3 ft, and 4 ft bgs as requested by the NMOCD. The sample locations are depicted in **Figure 3**.

6 Site Characterization

After a review of the New Mexico Office of State Engineers (NMOSE) and United States Geological Survey (USGS) databases, USGS well 325144103214701 located approximately 0.18 miles northwest of the Site was identified and gauged with a water level meter by Arcadis on May 2, 2024. Depth to water was verified at 66.80 feet bgs. As such, assessment activities completed to date and remediation/reclamation activities at the Site have been evaluated assuming a Site with a depth to groundwater as greater than 50 feet bgs for soils at depths greater than 4 feet bgs. Site characterization data is included in the approved Work Plan in **Appendix A**.

7 NMAC Regulatory Criteria

Per Table I of NMAC part 19.15.29.12, the following closure criteria apply to the Site for reclamation activities within the first 4 feet of soil:

Constituent	Limit (mg/kg)
Benzene	10 mg/kg
Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX)	50 mg/kg
Total Petroleum Hydrocarbons (TPH) – Gasoline Range Organics (GRO), Diesel Range Organics (DRO), and Oil Range Organics (ORO)	100 mg/kg
Chloride	600 mg/kg

Per Table I of NMAC part 19.15.29.12, the following closure criteria apply to the Site for remediation activities for soils at depths greater than 4 feet bgs confirmed with depth to groundwater greater than 50 feet bgs:

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Constituent	Limit (mg/kg)
Benzene	10 mg/kg
BTEX	50 mg/kg
TPH –GRO, DRO, and ORO	2,500 mg/kg
Chloride	10,000 mg/kg

8 Remediation Activities Summary

8.1 Soil Removal

Soil remediation activities were performed from March 12, 2025, through April 14, 2025. Photo-ionization detector (PID) readings, chloride field screening with Hach field test strip results, and laboratory analytical results from the pre-remediation assessment activities were evaluated prior to and during remediation activities to determine the horizontal and vertical extent of soil impacted by the release. Horizontal and vertical delineation of the impacted soil requiring removal was based on samples collected from the perimeter and bottom of the release area. Based on these results, it was determined that the release covered an approximately 9,825 square foot (sq ft) area. Excavation activities were conducted to a maximum depth of approximately 4 feet bgs. Two of the NMOCD requested sample locations (SB-18 and SB-19) exceeded the NMOCD standard for chloride at 1 ft bgs, therefore these areas were additionally excavated to 1.5 ft bgs and covered approximately 120 sq ft. Approximately 1,445 cubic yards of impacted soil were excavated from the release area. The limits of the excavation are presented in **Figure 3** and **Figure 4**. Excavated soil was stockpiled on-site, adjacent to the release area on 20 millimeter (mil) thick plastic sheeting and covered with 20 mil plastic sheeting during remediation activities.

The stockpiled soil was disposed offsite at the Gandy Marley Landfill located in Roswell, New Mexico as Class 2 non-hazardous material. Copies of disposal manifests can be provided upon request.

8.2 Excavation Confirmation Sampling Activities

Arcadis, personnel conducted excavation confirmation soil sampling activities from March 12, 2025, through April 14, 2025, for laboratory analyses. Following excavation of the impacted area, 5-point composite confirmation soil samples were collected from the excavation area as needed to maintain an approximate 400 square foot sample spacing or less for both sidewall and base of the excavated area as approved as a variance request in e-mail correspondence with the NMOCD. This correspondence is presented in **Appendix B**. The excavation sidewall confirmation sample locations are depicted in **Figure 3** and excavation base confirmation samples are depicted in **Figure 4**.

The confirmation soil samples were collected for chemical analyses, placed directly into laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody protocol to Eurofins Laboratories in Midland, Texas. The sample was analyzed for modified BTEX by EPA Method 8021B, TPH by United States Environmental Protection Agency (EPA) Method 8015, and chloride by EPA method 300. Soil sample analytical results are summarized in **Table 1**. The laboratory analytical report is included in **Appendix C**.

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8.2.1 BTEX

BTEX concentrations were reported below the NMOCD reclamation and remediation standards.

8.2.2 TPH

TPH concentrations were reported below the NMOCD reclamation and remediation standards for GRO, DRO, and ORO.

8.2.3 Chloride

Chloride concentrations were reported below the NMOCD reclamation and remediation standards.

9 Restoration, Reclamation, and Re-Vegetation Activities

Prior to backfill, a 5-point composite sample was collected from the backfill material to confirm all constituents were below the NMOCD reclamation standards for BTEX, TPH, and chloride and the analytical results are included in **Table 1** and **Appendix C**. Upon receiving laboratory analytical data confirming impacted soil over the applicable restoration limits had been removed from the release area, the excavated area was backfilled with locally sourced, non-impacted "like" material suitable to establish vegetation growth as proposed in the 2025 Work Plan approved by NMOCD and the NMSLO.

Approximately 9,825 square feet of the area of concern pertaining to the remediated area for incident number nTO1424541014 was restored to its near original condition. The area was contoured and/or compacted to achieve erosion control, stability, and preservation of surface water flow to the extent practicable.

The area has not been re-seeded at this time. The area will be re-seeded during the first favorable growing season with a NMSLO approved seed mixture based on documented soil types proximate to the site. A separate revegetation report will be submitted to the NMOCD and NMSLO once revegetation activities have been completed.

10 Summary

Analytical results associated with the remediation activities conducted in 2025 indicate that the horizontal and vertical extent of BTEX, TPH, and chloride impact in soil above NMAC screening standards have been remediated (excavated) from the impacted area. The area was backfilled with clean/ suitable material to establish vegetation growth, graded to match the original surface conditions and drainage, and restored to its near original condition.

Photographic documentation of the remediation and restoration activities are included in **Appendix D**.

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11 Remediation Closure Request

Remediation activities were conducted in accordance with the NMOCD standards outlined in Table I of NMAC part 19.15.29.12 utilizing an approved variance of 400 square foot composite areas. Impacted soil affected above the NMOCD Closure Criteria and/or NMOCD Reclamation Standard was excavated and transported to an NMOCD-approved disposal facility. Laboratory analytical results from confirmation soil samples indicate concentrations of BTEX, TPH and chloride are below the NMOCD Closure Criteria for the remediated area at the Site.

Based on laboratory analytical results and field activities conducted to date, no additional soil assessment or remediation activities are recommended at this time at the Site.

Arcadis requests remediation closure be granted to the West Lovington Unit #072 for Incident Number nTO1424541014.

A separate revegetation report will be submitted to the NMOCD and SLO once revegetation activities have been completed.

Tables



Table 1
Soil Analytical Results
Chevron Environmental Management Company
WLU 72
Lea County, NM

Sample I.D.	Sample Depth (feet bgs)	Date	Soil Status	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	TPH-GRO	TPH-DRO	TPH GRO + DRO	TPH MRO	Total TPH	Chloride
				(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
NMAC Standards				10	--	--	--	50	--	--	1,000	--	2,500	10,000
Restoration Requirements				10	--	--	--	50	--	--	--	--	100	600
SW-1	0-4'	03/28/25	In-Situ	<0.00139	<0.00200	<0.00109	<0.00229	<0.00229	<14.5	24.6 J	24.6 J	<15.1	24.6 J	253
SW-2	0-4'	03/28/25	In-Situ	<0.00138	<0.00198	<0.00108	<0.00226	<0.00226	<14.5	<15.1	<15.1	<15.1	<15.1	505
SW-3	0-4'	03/28/25	In-Situ	<0.00138	<0.00198	<0.00108	<0.00226	<0.00226	<14.5	<15.1	<15.1	<15.1	<15.1	182
SW-4	0-4'	03/28/25	In-Situ	<0.00138	<0.00198	<0.00108	<0.00226	<0.00226	<14.5	<15.1	<15.1	<15.1	<15.1	150
SW-5	0-4'	03/28/25	In-Situ	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	<14.5	19.1 J	19.1 J	<15.1	19.1 J	224
B-1	4'	03/20/25	In-Situ	<0.00141	<0.00202	<0.00110	<0.00231	<0.00231	<14.4	<15.0	<15.0	<15.0	<15.0	1,830 F1
B-2	4'	03/20/25	In-Situ	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	<14.4	<15.0	<15.0	<15.0	<15.0	1,150
B-3	4'	03/20/25	In-Situ	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	<14.5	<15.1	<15.1	<15.1	<15.1	526
B-4	4'	03/20/25	In-Situ	<0.00139	<0.00200	<0.00109	<0.00229	<0.00229	<14.5	<15.1	<15.1	<15.1	<15.1	772
B-5	4'	03/20/25	In-Situ	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	<14.4	<15.0	<15.0	<15.0	<15.0	1,810
B-6	4'	03/20/25	In-Situ	<0.00138	<0.00198	<0.00108	<0.00226	<0.00226	<14.4	<15.0	<15.0	<15.0	<15.0	1,130
B-7	4'	03/20/25	In-Situ	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	<14.4	<15.0	<15.0	<15.0	<15.0	1,020
B-8	4'	03/20/25	In-Situ	<0.00139	<0.00200	<0.00109	<0.00229	<0.00229	<14.5	<15.1	<15.1	<15.1	<15.1	236
B-9	4'	03/20/25	In-Situ	<0.00140	<0.00201	<0.00110	<0.00230	<0.00230	<14.5	<15.1	<15.1	<15.1	<15.1	269
B-10	4'	03/20/25	In-Situ	<0.00139	<0.00200	<0.00109	<0.00229	<0.00229	<14.5	<15.1	<15.1	<15.1	<15.1	189
B-11	4'	03/20/25	In-Situ	<0.00139	<0.00199	<0.00108	<0.00228	<0.00228	<14.4	<15.0	<15.0	<15.0	<15.0	417
B-12	4'	03/20/25	In-Situ	<0.00138	<0.00198	<0.00108	<0.00226	<0.00226	<14.5	<15.1	<15.1	<15.1	<15.1	462
B-13	4'	03/20/25	In-Situ	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	<14.5	<15.1	<15.1	<15.1	<15.1	2,070
B-14	4'	03/20/25	In-Situ	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	<14.4	<15.0	<15.0	<15.0	<15.0	1,960
B-15	4'	03/20/25	In-Situ	<0.00139	<0.00200	<0.00109	<0.00229	<0.00229	<14.4	<15.0	<15.0	<15.0	<15.0	261
B-16	4'	03/20/25	In-Situ	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	<14.5	44.1 J	44.1 J	<15.1	44.1 J	1,250
B-17	4'	03/20/25	In-Situ	<0.00138	<0.00198	<0.00108	<0.00226	<0.00226	<14.5	32.4 J	32.4 J	<15.1	32.4 J	1,290
B-18	4'	03/20/25	In-Situ	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	<14.4	22.1 J	22.1 J	<15.0	22.1 J	329
B-19	4'	03/20/25	In-Situ	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	<14.4	16.4 J	16.4 J	<15.0	16.4 J	157
B-20	4'	03/20/25	In-Situ	<0.00138	<0.00198	<0.00108	<0.00227	<0.00227	<14.5	<15.1	<15.1	<15.1	<15.1	2,010
B-21	4'	03/28/25	In-Situ	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	<14.5	<15.1	<15.1	<15.1	<15.1	2,700
B-22	4'	03/28/25	In-Situ	<0.00138	<0.00198	<0.00108	<0.00227	<0.00227	<14.5	<15.1	<15.1	<15.1	<15.1	763
B-23	4'	03/28/25	In-Situ	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	<14.5	40.9 J	40.9 J	<15.1	40.9 J	2,260
B-24	4'	03/28/25	In-Situ	<0.00139	<0.00200	<0.00109	<0.00229	<0.00229	<14.5	17.4 J	17.4 J	<15.1	17.4 J	821
B-25	4'	03/28/25	In-Situ	<0.00140	<0.00202	<0.00110	<0.00230	<0.00230	<14.5	<15.1	<15.1	<15.1	<15.1	576
B-26	4'	03/28/25	In-Situ	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	<14.5	<15.1	<15.1	<15.1	<15.1	697
SB-18	0.5'	03/12/25	Removed	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	<14.5	99.2	99.2	<15.1	99.2	586
SB-18	1'	03/12/25	Removed	<0.00139	<0.00200	<0.00109	<0.00229	<0.00229	<14.5	<15.1	<15.1	<15.1	<15.1	637
SB-18-B	1.5'	04/14/24	In-Situ	<0.00139	<0.00200	<0.00109	0.00443	0.00443	<14.5	<15.1	<15.1	<15.1	<15.1	266
SB-18	2'	03/12/25	In-Situ	<0.00139	<0.00199	<0.00108	<0.00228	<0.00228	<14.5	<15.1	<15.1	<15.1	<15.1	215
SB-18	3'	03/12/25	In-Situ	<0.00138	<0.00198	<0.00108	<0.00226	<0.00226	<14.5	<15.1	<15.1	<15.1	<15.1	225
SB-18	4'	03/12/25	In-Situ	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	<14.4	<15.0	<15.0	<15.0	<15.0	152
SB-19	0.5'	03/12/25	Removed	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	<14.5	<15.1	<15.1	<15.1	<15.1	132
SB-19	1'	03/12/25	Removed	<0.00140	<0.00202	<0.00110	<0.00230	<0.00230	<14.5	<15.1	<15.1	<15.1	<15.1	640
SB-19-B	1.5'	04/14/24	In-Situ	<0.00139	<0.00200	<0.00109	<0.00229	<0.00229	<14.6	18.7 J	18.7 J	<15.2	18.7 J	238
SB-19	2'	03/12/25	In-Situ	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	<14.5	<15.1	<15.1	<15.1	<15.1	307
SB-19	3'	03/12/25	In-Situ	<0.00138	<0.00198	<0.00108	<0.00227	<0.00227	<14.5	<15.1	<15.1	<15.1	<15.1	189
SB-19	4'	03/12/25	In-Situ	<0.00140	<0.00202	<0.00110	<0.00230	<0.00230	<14.5	<15.1	<15.1	<15.1	<15.1	117
SB-20	0.5'	03/12/25	In-Situ	<0.00138	<0.00198	<0.00108	<0.00226	<0.00226	<14.5	<15.1	<15.1	<15.1	<15.1	316 F1
SB-20	1'	03/12/25	In-Situ	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	<14.4	<15.0	<15.0	<15.0	<15.0	481
SB-20	2'	03/12/25	In-Situ	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	<14.5	<15.1	<15.1	<15.1	<15.1	371
SB-20	3'	03/12/25	In-Situ	<0.00140	<0.00202	<0.00110	<0.00230	<0.00230	<14.5	<15.1	<15.1	<15.1	<15.1	141
SB-20	4'	03/12/25	In-Situ	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	<14.5	<15.1	<15.1	<15.1	<15.1	91.4



Table 1
Soil Analytical Results
Chevron Environmental Management Company
WLU 72
Lea County, NM

Sample I.D.	Sample Depth (feet bgs)	Date	Soil Satus											
				Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	TPH-GRO	TPH-DRO	TPH GRO + DRO	TPH MRO	Total TPH	Chloride
				(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
NMAC Standards			10	--	--	--	50	--	--	1,000	--	2,500	10,000	
Restoration Requirements			10	--	--	--	50	--	--	--	--	100	600	
T-5	0.5'	03/12/25	In-Situ	<0.00138	<0.00198	<0.00108	<0.00227	<0.00227	<14.5	<15.1	<15.1	<15.1	<15.1	100
T-5	1'	03/12/25	In-Situ	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	<14.5	<15.1	<15.1	<15.1	<15.1	99.2
T-5	2'	03/12/25	In-Situ	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	<14.4	<15.0	<15.0	<15.0	<15.0	144
T-5	3'	03/12/25	In-Situ	<0.00140	<0.00202	<0.00110	<0.00230	<0.00230	<14.5	20.5 J	20.5 J	<15.1	20.5 J	141
T-5	4'	03/12/25	In-Situ	<0.00138	<0.00199	<0.00108	<0.00227	<0.00227	<14.5	<15.1	<15.1	<15.1	<15.1	143
Backfill	--	03/28/25	In-Situ	<0.00139	<0.00200	<0.00109	<0.00228	<0.00228	<14.5	<15.1	<15.1	<15.1	<15.1	529

Legend:

BOLD = Analytes exceeding Restoration Requirement

--: Not available/not applicable

" " " : Indicates one foot

ft: foot

F1: Matrix Spike and/or Matix Spike Duplicate recovery exceeds control limits.

J: Result is less than the Reprting Limit (RL) but greater than or equal to the Method Detection Limit (MDL) and the concentration is an approximate value.

'<' indicates the analyte was not detected at or above the MDL.

mg/kg: Milligram per Kilogram

BTEX : Benzene, Toluene, Ethylbenzene, and Total Xylenes

NMAC : New Mexico Administration Code. Criteria based off of depth to groundwater of 51-100 feet.

TPH GRO: Total Petroleum Hydrocarbons Gasoline Range Organics

TPH MRO: Total Petroleum Hydrocarbons Motor Oil Range Organics

TPH DRO: Total Petroleum Hydrocarbon Diesel Range Organics

Total TPH: GRO + DRO + MRO

*Revised screening limit and restoration criteria within the first 4 feet below ground surface per Rule 19.15.29 effective August 14, 2018

Notes:

1. Chloride analyzed by United States Environmental Protection Agency (USEPA) Method 300.0

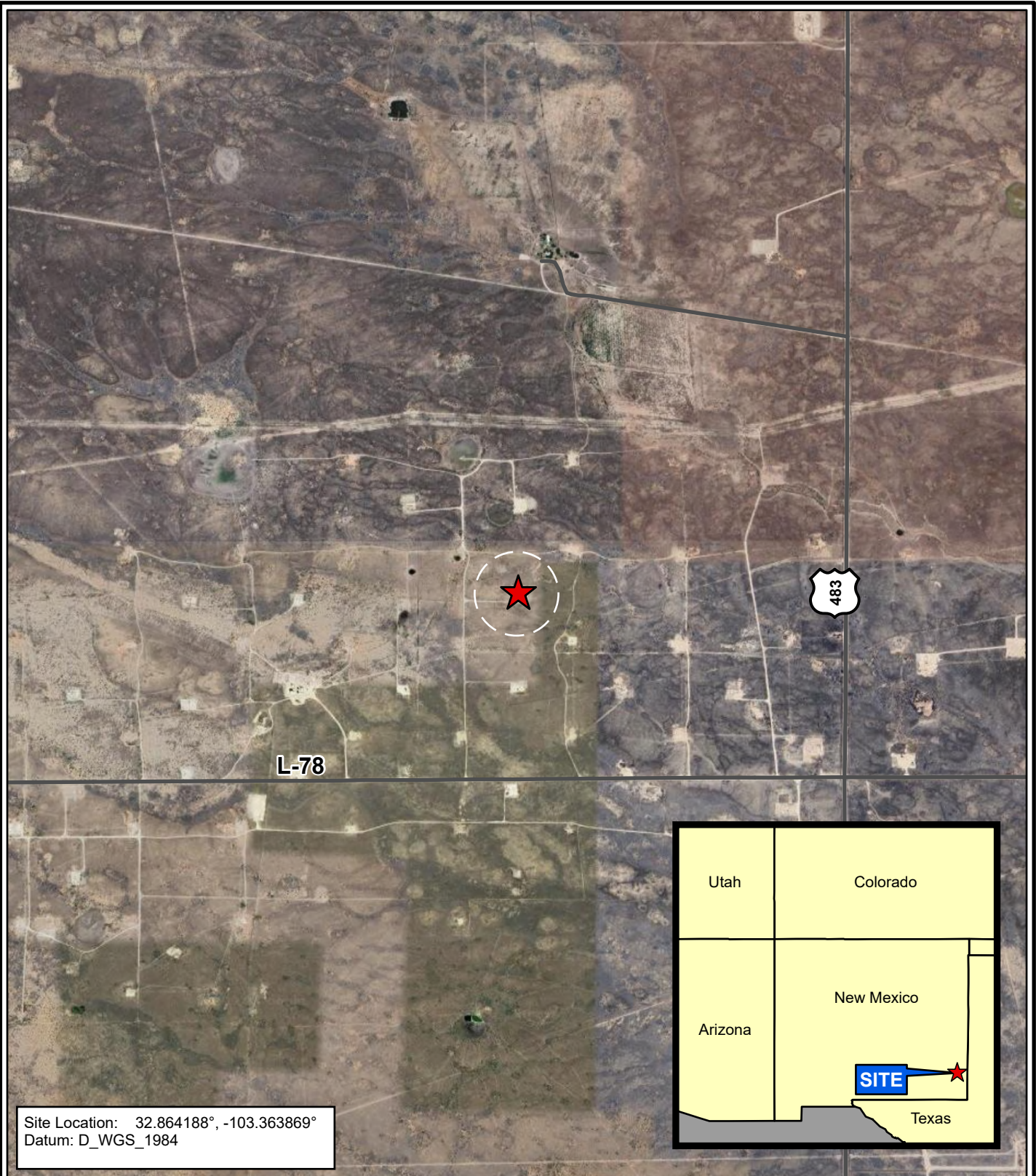
2. TPH analyzed by USEPA Method SW846 8015B NM

3. BTEX analyzed by USEPA Method SW846 8021B

4. Closure Criteria New Mexico Administrative Code 19.15.29.12.E(2)

Figures

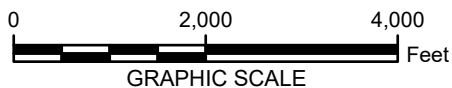
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Legend

★ Site Location

Credits: ESRI Online, Google Earth

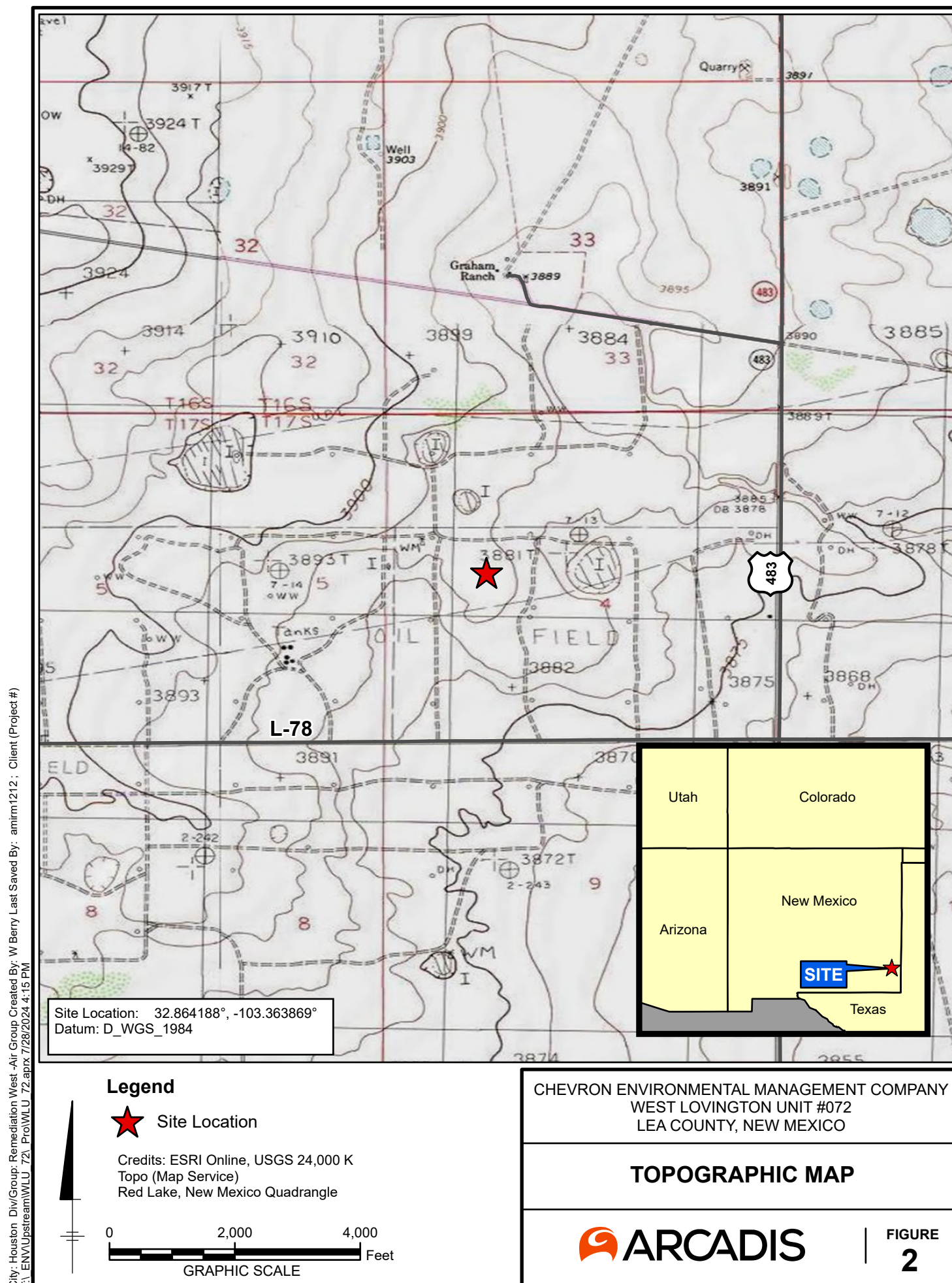


CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
WEST LOVINGTON UNIT #072
LEA COUNTY, NEW MEXICO

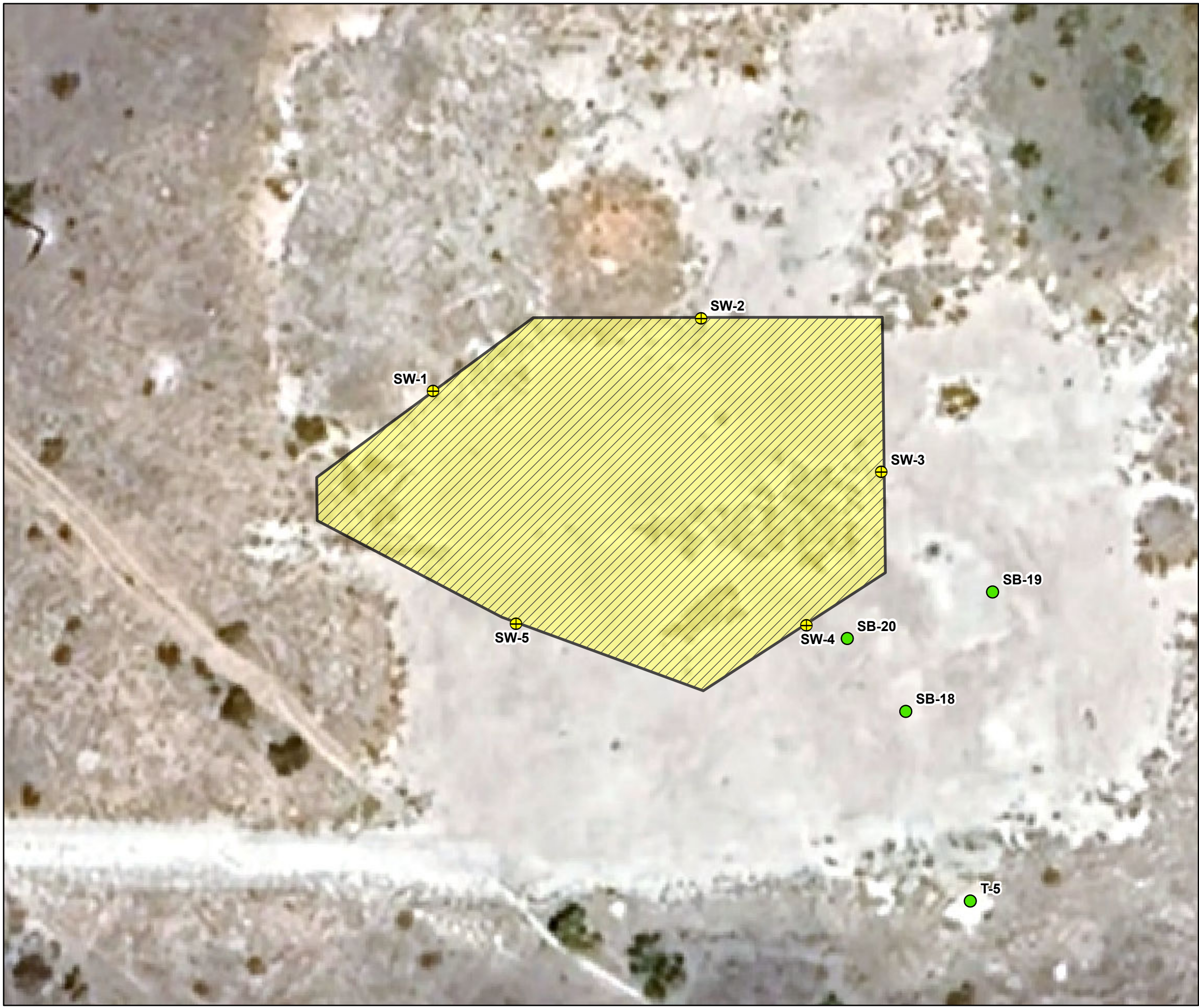
SITE LOCATION MAP



FIGURE
1

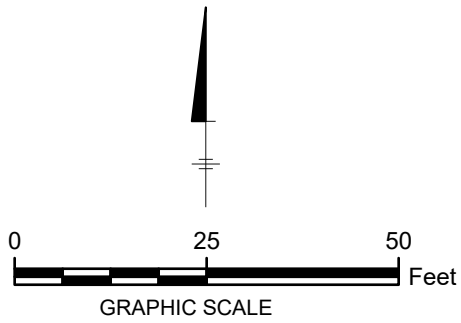


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LEGEND:

- ⊕ Sidewall Soil Sample Location
- Discrete Sample Location (per OCD)
- ▨ Excavated Area



Datum: D_WGS_1984
Source: ESRI Online, Google Earth
Site Location: 32.864024°, -103.363818°

CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
WEST LOVINGTON UNIT #072
LEA COUNTY, NEW MEXICO

**EXCAVATION SIDEWALL
SOIL SAMPLE LOCATIONS**



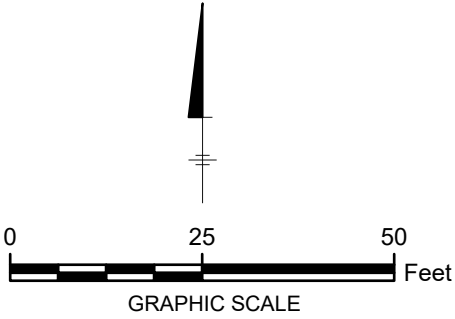
FIGURE
3

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LEGEND:

- Base Soil Sample Location
- ▨ Excavated Area



Datum: D WGS 1984
Source: ESRI Online, Google Earth
Site Location: 32.864024°, -103.363818°

CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
WEST LOVINGTON UNIT #072
LEA COUNTY, NEW MEXICO

**EXCAVATION BASE
SOIL SAMPLE LOCATIONS**



FIGURE
4

Appendix A

Work Plan



Chris Brand
Environmental Remediation/ Facility Decom Advisor

VIA ELECTRONIC MAIL

February 26, 2025

New Mexico Oil Conservation Division
District I
1625 N. French Drive
Hobbs, New Mexico 88240

Re: West Lovington Unit #072
2025 Remediation Work Plan
Incident No. nTO1424541014
Case No. 1RP-3298

Dear Whom it May Concern:

Please find enclosed for your files, copies of the following:
West Lovington Unit #072 Remediation Work Plan

The Work Plan was prepared by Arcadis U.S., Inc. (Arcadis) on behalf of Chevron Environmental Management Company (CEMC) for Chevron USA.

Please do not hesitate to call Scott Foord with Arcadis at 713.953.4853, or myself at 661.401.0359, should you have any questions.

Sincerely,

Chris Brand

Encl. West Lovington Unit #072 Remediation Work Plan

cc. Scott Foord – Arcadis
Morgan Jordan – Arcadis

Chris Brand
Environmental Remediation/ Facility Decom Advisor
6301 Deauville Blvd, Midland, TX 79706
Mobile 661 401 0359
chrisbrand@chevron.com



Chevron Environmental Management Company

2025 Remediation Work Plan

West Lovington Unit #072

Lea County, New Mexico

Incident # nTO1424541014

February 2025

2025 Remediation Work Plan
West Lovington Unit #072

2025 Remediation Work Plan

West Lovington Unit #072
Incident # nTO1424541014
Lea County, New Mexico

February 2025

Prepared By:

Arcadis U.S., Inc.
1330 Post Oak., Blvd., Suite 2250
Houston
Texas 77056
Phone: 713 953 4800

Prepared For:

Chris Brand
Project Manager
CEMC
6301 Deauville Blvd.
Midland, TX 79706



Scott Foord, PG
Program Manager

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www.arcadis.com

2025 Remediation Work Plan
West Lovington Unit #072

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3	Site Characterization	1
4	NMAC Regulatory Criteria.....	2
5	Site Assessment Activities	3
6	Proposed Work Plan.....	3
7	Work Plan Approval Request	4

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Figure 1. Site Location Map

Figure 2. Topographic Map

Figure 3. Proposed Excavation and Sample Location Map

Appendices

Appendix A. Initial C-141 Form Incident # nTO1424541014

Appendix B. Photo Log

Appendix C. Site Characterization Data

Appendix D. Laboratory Analytical Reports

2025 Remediation Work Plan
West Lovington Unit #072

1 Introduction

Arcadis U.S., Inc. (Arcadis) has prepared this Remediation Work Plan, for Chevron Environmental Management Company (CEMC) on behalf of Chevron U.S.A. Inc., through its division Chevron North America Exploration and Production Company, for the release site known as the West Lovington Unit #072 (Site) located at 32.864039, -103.363912. Details of the release are summarized in the New Mexico Oil Conservation Division (NMOCD) Initial C-141 Form included as **Appendix A**.

2 Project Summary

The Site is located on state owned land approximately 5.40 miles south of the City of Lovington in Unit F, Section 4, Township 17 South, Range 36 East, Lea County, New Mexico. The site is located within a low karst area. A Site Location Map is included as **Figure 1** and a Topographic Map as **Figure 2**.

2.1 Incident # nTO1424541014

According to the Initial C-141 Form, on November 13, 2013, the well was shut in for 24-hours for chemical treatment. While the well was shut in, the well reached a higher bottom hole pressure than the stuffing box rating and the rams did not hold, leading to a stuffing box leak of approximately 0.55 barrels (bbls) of oil and 10 bbls of produced water at the Site. The spill area was approximately 108 feet (ft) by 18 ft according to the Initial C-141 Form that was submitted on November 23, 2013. The Initial C-141 Form was approved on September 2, 2014, and assigned remediation permit number 1RP-3298 and incident number nTO1424541014. The Initial C-141 Form is included as **Appendix A**.

3 Site Characterization

After a review of the New Mexico Office of State Engineers (NMOSE) and USGS databases, USGS well 325144103214701 located approximately 0.18 miles northwest of the Site was identified and gauged with a water level meter by Arcadis on May 2, 2024. Depth to water was verified at 66.80 feet below ground surface (bgs). Photographic documentation of gauging activities by Arcadis is included in **Appendix B**.

The following site characteristics were determined in accordance with 19.15.29 New Mexico Administrative Code (NMAC):

- Shallowest depth to groundwater beneath the area affected by the release in ft bgs: Between 51 and 75 feet;
- Method used to determine the depth to groundwater: direct measurement;
- Distance to continuously flowing watercourse or any other significant watercourse: >5 miles;
- Distance to lakebed, sinkhole, or playa lake: Between 1,000 feet and 0.50 miles;
- Distance to occupied permanent residence, school, hospital, institution, or church: Between 0.50 and 1 mile;
- Distance to spring or private domestic fresh water well used by less than five households for domestic or stock watering purposes: Between 500 and 1,000 feet;
- Distance to other fresh water well or spring: Between 0.50 and 1 mile;

2025 Remediation Work Plan
West Lovington Unit #072

- Distance to incorporated municipal boundaries or a defined municipal fresh water well field: Between 1 and 5 miles;
- Distance to wetland: Between 500 and 1,000 feet;
- Distance to subsurface mine: >5 miles;
- Distance to (non-karst) unstable area: >5 miles;
- Categorize the risk of this well/site being in a karst geology: Low;
- Distance to a 100-year floodplain: Between 1 and 5 miles; and
- Did the release impact areas not on an exploration, development, production, or storage site? No

The site characterization data is presented in **Appendix C**.

4 NMAC Regulatory Criteria

Per Table I of NMAC part 19.15.29.12, the following closure criteria apply to the Site for reclamation activities within the first 4 feet of soil:

Constituent	Limit (mg/kg)
Benzene	10 mg/kg
Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX)	50 mg/kg
Total Petroleum Hydrocarbons (TPH) – Gasoline Range Organics (GRO), Diesel Range Organics (DRO), and Oil Range Organics (ORO)	100 mg/kg
Chloride	600 mg/kg

Per Table I of NMAC part 19.15.29.12, the following closure criteria apply to the Site for remediation activities for soils at depths greater than 4 feet bgs due to depth to groundwater measured by Arcadis at 66.80 feet bgs within USGS well 325144103214701 located approximately 0.18 miles northwest of the Site:

Constituent	Limit (mg/kg)
Benzene	10 mg/kg
BTEX	50 mg/kg
TPH –GRO, DRO, and ORO	2,500 mg/kg
Chloride	10,000 mg/kg

2025 Remediation Work Plan
West Lovington Unit #072

5 Site Assessment Activities

In January 2024, April 2024, and December 2024, Arcadis performed site assessment activities to evaluate soil impacts stemming from the release. A total of seventeen (17) sample points (SB-1 through SB-17) were advanced to depths ranging from the surface to 11 feet bgs inside and surrounding the release area to evaluate the vertical and horizontal extents of the release. Additionally in December 2024, soil samples were collected at four (4) additional locations across the well pad (T-1 through T-4). Soil sample locations are shown on **Figure 3**. Soil samples were collected for chemical analyses, placed directly into laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody protocol to Eurofins Laboratories in Midland, Texas.

The samples were analyzed for TPH by United States Environmental Protection Agency (EPA) Method 8015, modified BTEX by EPA Method 8021B, and chloride by EPA method 300.0. There were no reported concentrations in soil samples analyzed for BTEX. Soil samples analyzed for TPH were reported with concentrations ranging from 47.1 J mg/kg (S-7) to 94.9 mg/kg (S-4). Soil samples analyzed for chloride were reported with concentrations ranging from 4.87 J mg/kg (S-9) to 7,720 mg/kg (S-1).

Vertical and horizontal delineation was completed during assessment activities. Analytical data collected to date and field screening during proposed remediation activities will be utilized to guide remediation activities. Soil sample analytical results from assessment activities are summarized in **Table 1**. Laboratory reports for soil samples collected during the initial site assessment, including analytical methods, results, and chain-of-custody documents, are attached in **Appendix D**.

6 Proposed Work Plan

Based on the analytical data and the detected TPH and chloride concentrations in soil samples collected during site assessment activities, CEMC proposes to remediate the areas of concern via excavation illustrated in orange as shown in **Figure 3** and bolded in **Table 1**.

No site remediation activities are anticipated to be completed at or near the Site on previously undisturbed areas that would require documented compliance with the Cultural Properties Protection Rule (19.2.24 NMAC).

No conservation agreement stipulations apply. This work occurs within Lesser Prairie Chicken (LPC) habitat but is outside the restrictive disturbance seasons and there is no new surface disturbance.

The proposed excavation area encompasses a surface area of approximately 15,000 square feet within the pad area. In accordance with NMAC 19.15.29.12(D)(1)(b), CEMC proposes the following alternative confirmation sampling plan as a variance request to adhere with NMOCD requirements. Five-point composite confirmation soil samples will be collected from the excavation floor and sidewalls at 400 square foot intervals for analysis of BTEX by EPA Method 8260, TPH for GRO, DRO, and ORO by EPA Method 8015, and chloride by EPA Method 300.0. Lateral and vertical limits of the excavation will halt once confirmation sample analytical results are in accordance with NMAC 19.15.29.12(D)(1)(c). An estimated 2,250 cubic yards of soil will be removed and transported to the Gandy Marley Landfill located in Roswell, New Mexico, which is listed as an NMOCD approved disposal facility.

Backfill material will be verified to be non-waste containing prior to backfilling the remediated area by obtaining analytical data from the backfill material supplier if available, or by collecting a five-point composite sample and analyzing for BTEX by EPA Method 8260, TPH for GRO, DRO, and ORO by EPA Method 8015, and chloride by

2025 Remediation Work Plan
West Lovington Unit #072

EPA Method 300.0. Following completion of excavation activities and confirmation that the backfill material is non-waste containing, the areas will be backfilled with the clean material and graded to match the original surface conditions and drainage.

The proposed remediation activities will be implemented within 90 days following approval of this work plan by the NMOCD. The anticipated schedule includes 30 days to prepare and schedule field work and confirm sub-contractors, 30 days to complete on-site remediation activities, and 30 days to prepare a soil remediation summary and closure request report.

7 Work Plan Approval Request

Upon completion of the above proposed soil remediation activities, a final closure request report describing the activities will be submitted to the NMOCD and SLO for review, and a separate reclamation plan will be submitted to the SLO following the completion of remediation. If you have any questions regarding this work plan or need additional information, please do not hesitate to contact Scott Foord at 281-725-7447 or Morgan Jordan at 281-644-9437.

Tables

Table 1
Soil Analytical Results
Chevron Environmental Management Company
WLU 72



Sample I.D.	Sample Depth (feet bgs)	Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	TPH-GRO	TPH-DRO	TPH GRO + DRO	TPH MRO	Total TPH	Chloride
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
NMAC Standard			10	--	--	--	50	--	--	1,000	--	2,500	10,000
Restoration Requirements			10	--	--	--	50	--	--	--	--	100	600
SB-1	1	01/17/24	--	--	--	--	--	--	--	--	--	--	7,720 F1
	2	01/17/24	<0.000383	<0.000453	<0.000562	<0.00100	<0.00100	30.6 J *1	38.8 J	69.4 J *1	<15.1	69.4	1,550
SB-2	1	01/17/24	--	--	--	--	--	--	--	--	--	--	1,880
	2	01/17/24	--	--	--	--	--	--	--	--	--	--	1,140
	4	01/17/24	<0.000384	<0.000455	<0.00101	<0.00101	<0.00101	47.7 J *1	28.5 J	76.2 J *1	<15.0	76.2	1,190
	6	01/17/24	<0.000387	<0.000458	<0.000567	<0.00101	<0.00101	48.3 J *1	45.4 J	93.7 J *1	<15.1	93.7	989
SB-3	1	01/17/24	--	--	--	--	--	--	--	--	--	--	1,300
	2	01/17/24	<0.000383	<0.000454	<0.000563	<0.00101	<0.00101	29.9 J *1	23.1 J	53.0 J *1	<15.0	53.0	2,530
SB-4	1	01/17/24	--	--	--	--	--	--	--	--	--	--	1,160
	2	01/17/24	<0.000383	<0.000453	0.000817	<0.00100	<0.00100	40.0 J B	54.9 B	94.9 J B	<14.9	94.9	1,300
SB-5	1	01/17/24	--	--	--	--	--	--	--	--	--	--	1,740
	2	01/17/24	<0.00384	<0.000455	<0.000564	<0.00101	<0.00101	31.0 J B	38.0 J B	69.0 J B	<15.1	69.0	660
SB-6	1	01/17/24	--	--	--	--	--	--	--	--	--	--	1,320
	2	01/17/24	<0.000387	<0.000459	<0.000568	<0.00102	<0.00102	30.7 J B	25.1 J B	55.8 J B	<15.0	55.8	1,370
SB-7	1	01/17/24	--	--	--	--	--	--	--	--	--	--	121
	2	01/17/24	<0.000386	<0.000457	<0.000566	<0.00101	<0.00101	30.6 J B	16.5 J B	47.1 J B	<14.9	47.1 J	1,200
SB-8	2-3'	04/15/24	--	--	--	--	--	--	--	--	--	--	1,440
	6-7'	04/15/24	--	--	--	--	--	--	--	--	--	--	1,070
	8-9'	04/15/24	--	--	--	--	--	--	--	--	--	--	576
SB-9	0-1'	04/15/24	--	--	--	--	--	--	--	--	--	--	4.87 J
	2-3'	04/15/24	--	--	--	--	--	--	--	--	--	--	68.9
SB-10	0-1'	04/15/24	--	--	--	--	--	--	--	--	--	--	5.82
	2-3'	04/15/24	--	--	--	--	--	--	--	--	--	--	190
SB-11	0-1'	04/15/24	--	--	--	--	--	--	--	--	--	--	213
	2-3'	04/15/24	--	--	--	--	--	--	--	--	--	--	322
SB-12	0-1'	04/15/24	--	--	--	--	--	--	--	--	--	--	937
	2-3'	04/15/24	--	--	--	--	--	--	--	--	--	--	617
SB-13	4-5'	04/15/24	--	--	--	--	--	--	--	--	--	--	1,710
	8-9'	04/15/24	--	--	--	--	--	--	--	--	--	--	1,640 F1
	10-11'	04/15/24	--	--	--	--	--	--	--	--	--	--	354
SB-14	1	12/19/24	<0.00199	<0.00199	<0.00199 F1	<0.00398 F1	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	127
SB-15	1	12/19/24	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	<49.7 F1	<49.7	<49.7 F1	<49.7	<49.7	128
SB-16	1	12/19/24	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<49.7	<49.7	<49.7	<49.7	<49.7	308
SB-17	1	12/19/24	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	137
T-1	1	12/20/24	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	116
T-2	1	12/20/24	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	99.1
T-3	1	12/20/24	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	289
T-4	1	12/20/24	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	463

Legend:

BOLD = Analytes exceeding Restoration Requirement

J: Result is less than the Reporting Limit but greater than or equal to the MDL and the concentration is an approximate value.

B: Compound was found in the blank and sample.

*: Laboratory Control Sample (LCS) and/or Laboratory Control Sample Duplicate (LCSD) is outside acceptance limits, high biased.

*1 : LCS/LCSD RPD exceeds control limits.

F1: Matrix Spike (MS) and/or Matrix Spike Duplicate (MSD) recovery exceeds control limits.

'<' indicates the analyte was not detected at or above the Method Detection Limit (MDL)

'-': Not analyzed/Not available

mg/kg: Milligram per Kilogram

BTEX : Benzene, Toluene, Ethylbenzene, and Total Xylenes

NMAC : New Mexico Administration Code. Criteria based off of depth to groundwater of 51-100 feet.

TPH GRO: Total Petroleum Hydrocarbons Gasoline Range Organics

TPH MRO: Total Petroleum Hydrocarbons Motor Oil Range Organics

TPH DRO: Total Petroleum Hydrocarbon Diesel Range Organics

Total TPH: GRO + DRO + MRO

*Revised screening limit and restoration criteria within the first 4 feet below ground surface per Rule 19.15.29 effective August 14, 2018

Notes:

1. Chloride analyzed by United States Environmental Protection Agency Method 300

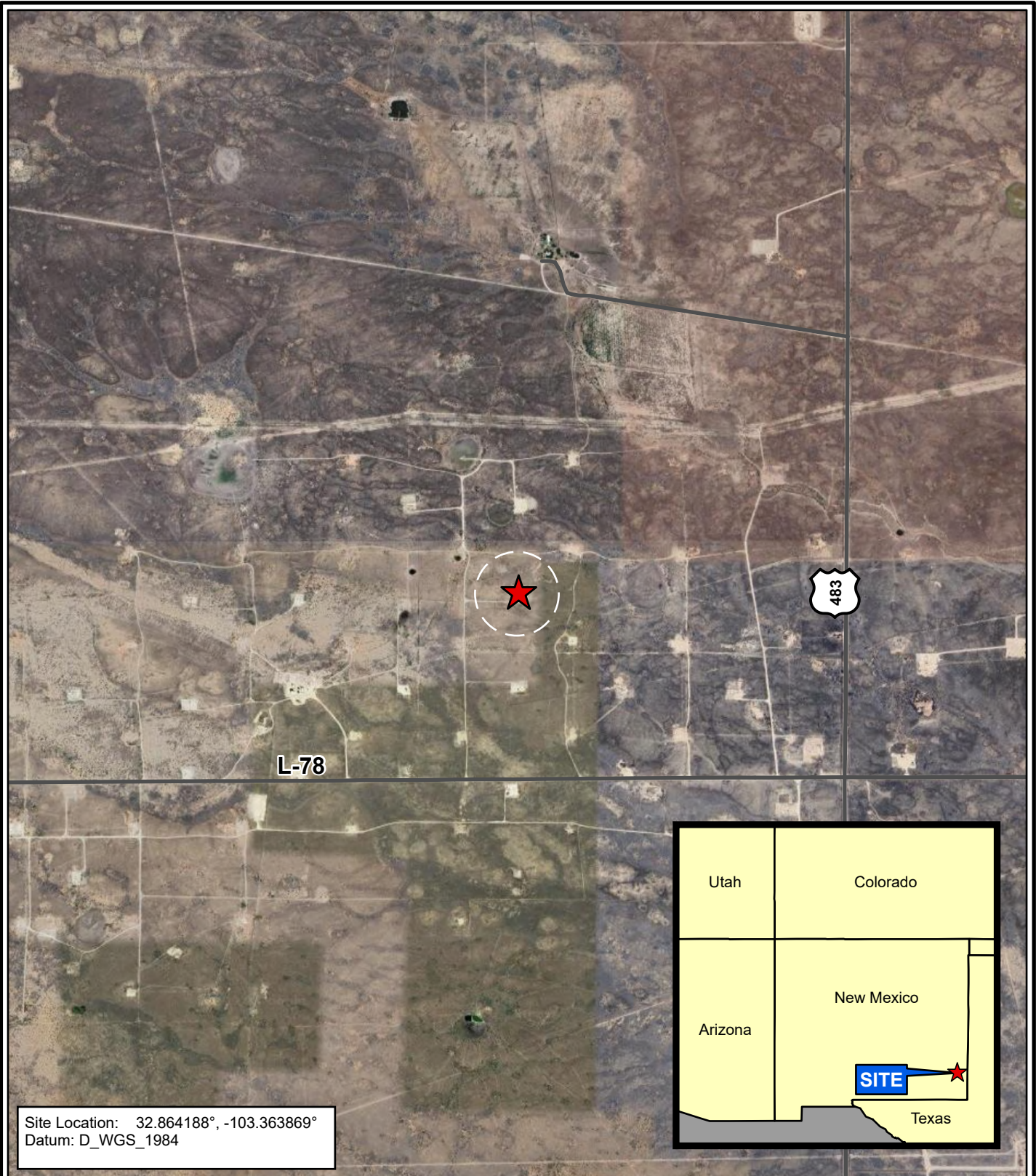
2. TPH analyzed by TPH by SW8015 Mod DRO/ORO Method

3. BTEX analyzed by USEPA Method 8021B

4. Closure Criteria New Mexico Administrative Code 19.15.29.12.E(2)

Figures

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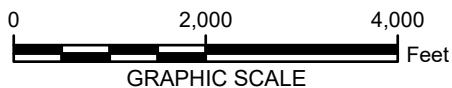


Legend



Site Location

Credits: ESRI Online, Google Earth



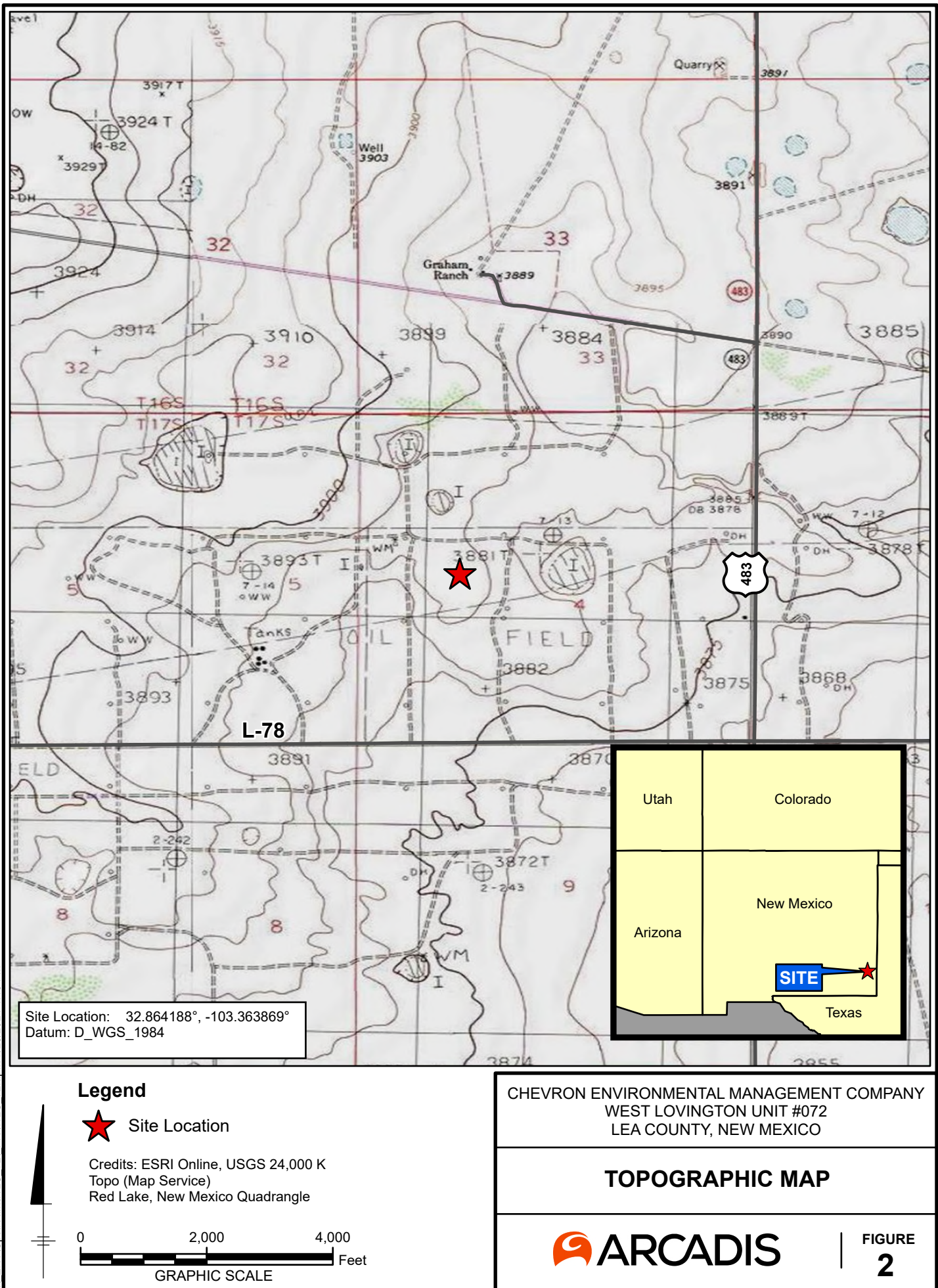
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
WEST LOVINGTON UNIT #072
LEA COUNTY, NEW MEXICO

SITE LOCATION MAP

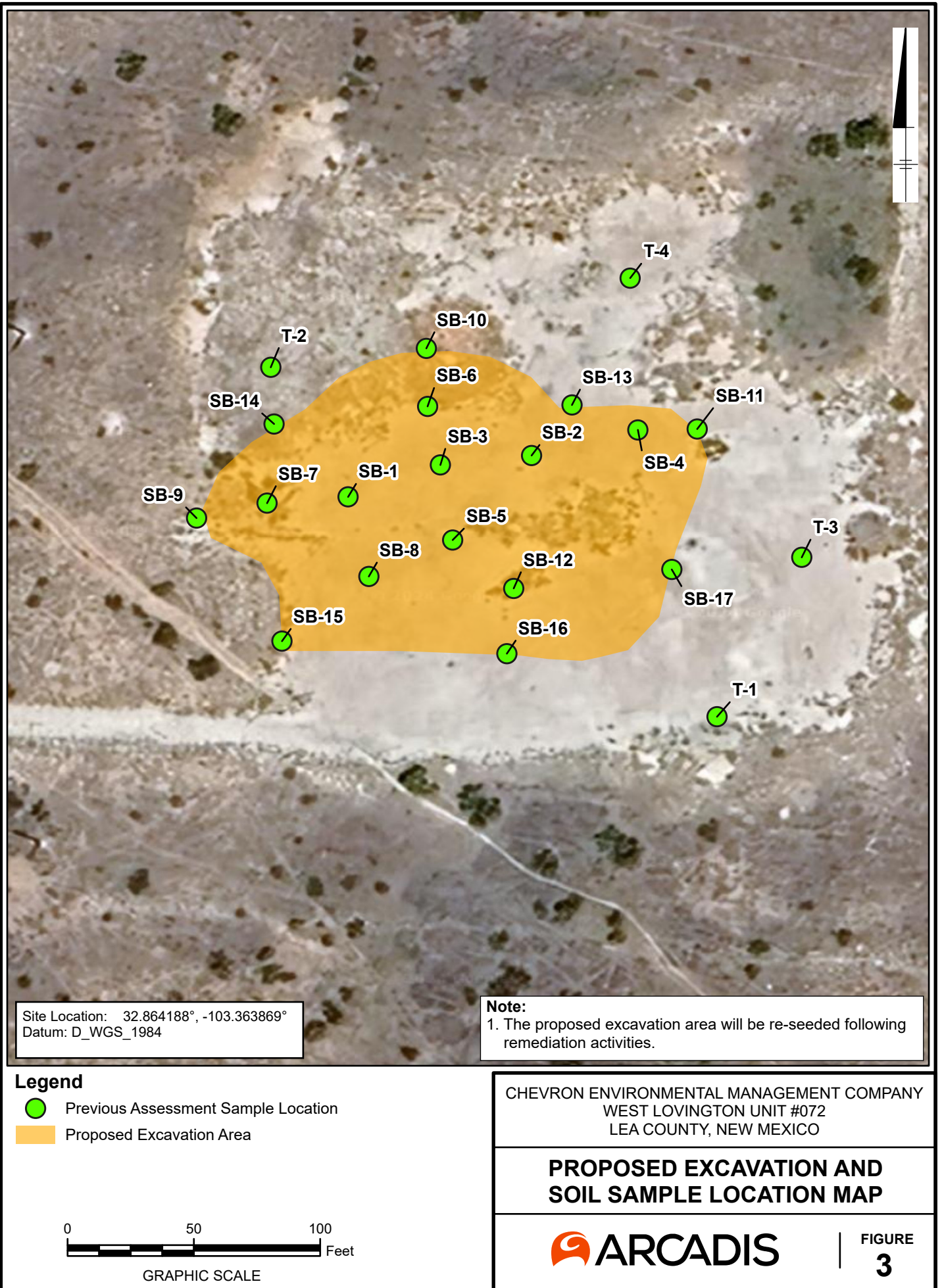


FIGURE
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T:\ENVUpstream\WLU 721 Pro\WLU 72.aprx 1/7/2025 3:42 PM



Appendix A

Initial C-141 Form Incident # nTO1424541014

MDistrict I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

HOBBS OCD

SEP 02 2014

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

RECEIVED

Form C-141
Revised August 8, 2011

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	Chevron USA Inc.	Contact	David A. Pagano
Address	15 Smith Rd., Midland, TX, 79705	Telephone No.	wk: 575-396-4414X275 cell: 505-787-9816
Facility Name:	West Lovington Unit No. 72	Facility Type:	Production Well
Surface Owner	NA	Mineral Owner	State of New Mexico
		API No.	3002530964

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
F	4	17S	36E	2600	N	1350	W	Lea

Latitude = 32.863975° Longitude = -103.363827°

NATURE OF RELEASE

Type of Release	Spill to Land	Volume of Release	0.55 bbl oil & 10.0 bbl produced water	Volume Recovered	0mcf
Source of Release	West Suction Tank	Date and Hour of Occurrence	11/13/13 2:00PM	Date and Hour of Discovery	11/13/13 2:00PM
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Geoffrey Leking		
By Whom?	James Trujillo	Date and Hour	11/14/13 10:30AM		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*

N/A

Describe Cause of Problem and Remedial Action Taken.*

Well was shut in for 24 hour chemical treatment. While the well was shut in, well reached higher bottom hole pressure than stuffing box rating and the BOP rams did not hold leading to a stuffing box leak.

Describe Area Affected and Cleanup Action Taken.*

Spill area was approx. 108' by 18' area rectangular are to the West of the well head and a 24. Vacuum Truck called out to vacuum up standing fluids and backhoe excavated top layer of soil approx. 12-18". Vacuum Truck Recovered 9.5 bbls of fluid. Next step is to take samples to determine effectiveness of local remediation and possibly turn remediation over to the Chevron Environmental Management Company.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOC 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 NMOC marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOC 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.

OIL CONSERVATION DIVISION

Signature:

David Pagano

Printed Name: David A. Pagano

Approved by Environmental Specialist:

Title: Health & Environmental Specialist

Approval Date: 9-2-14

Expiration Date: 11-2-14

E-mail Address: dpgn@chevron.com

Conditions of Approval:

Site Supervisor requested. Doherty
remediation done as per NMOC
Guido. Submit Final C-141 by
11-2-14

Attached ☐

Date: 11/23/13

Phone: 505-787-9816

IRP-3298
09-11-2013 298333
A701424541014
P701424541197



* Attach Additional Sheets If Necessary

SEP 05 2014

Appendix B

Photo Log

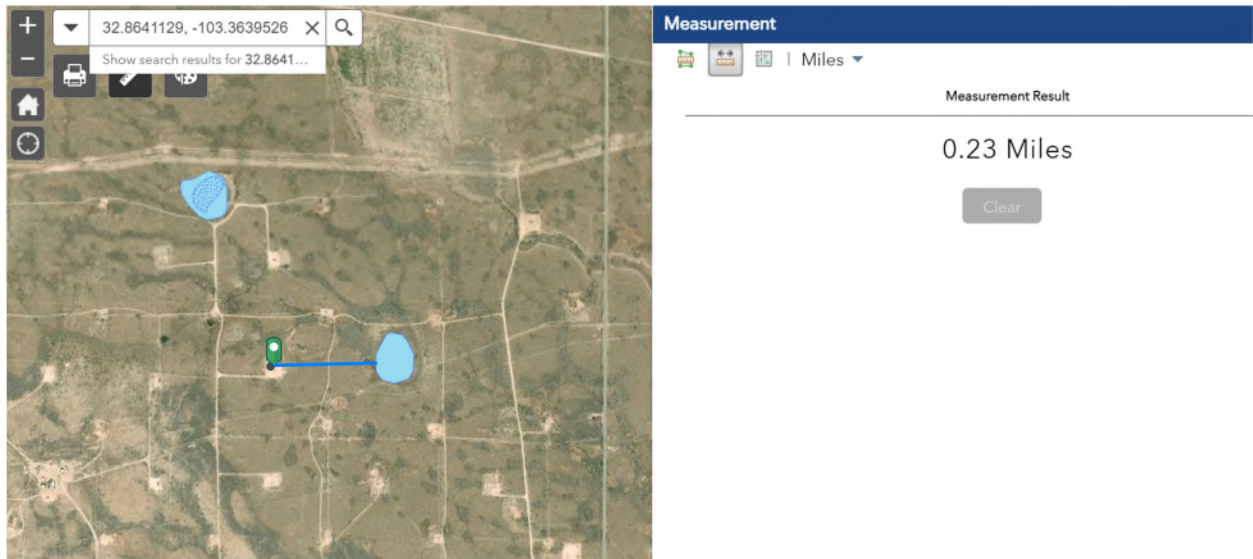
		PHOTOGRAPHIC LOG	
Property Name: West Lovington Unit #072		Location: Lea County, NM	Incident No. nTO1424541014
Photo No. 1	Date: 5/02/2024		
Direction Photo Taken: Facing West			
Description: USGS well 325144103214701 being gauged by Arcadis on May 2, 2024, and depth to water was verified at 66.80 ft below ground surface (bgs).			

		PHOTOGRAPHIC LOG	
Property Name: West Lovington Unit #072		Location: Lea County, NM	
		Incident No. nTO1424541014	
Photo No. 2	Date: 5/02/2024		
Direction Photo Taken: Facing West			
Description: USGS well 325144103214701 being gauged by Arcadis on May 2, 2024. Meter lighting up for water detection at 66.80 ft below ground surface (bgs).			

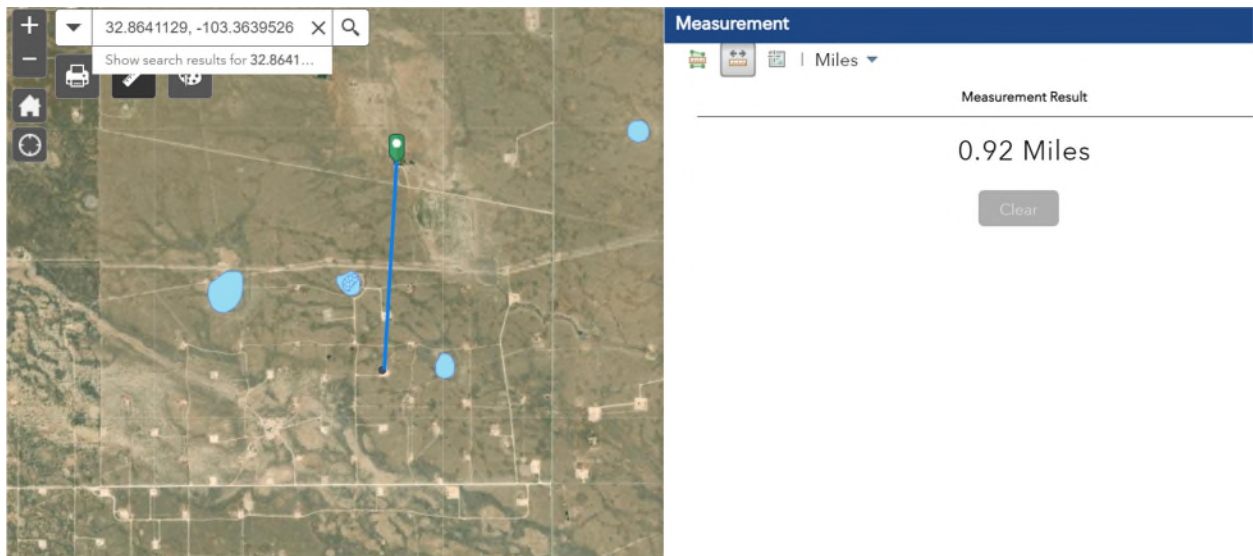
Appendix C

Site Characterization Data

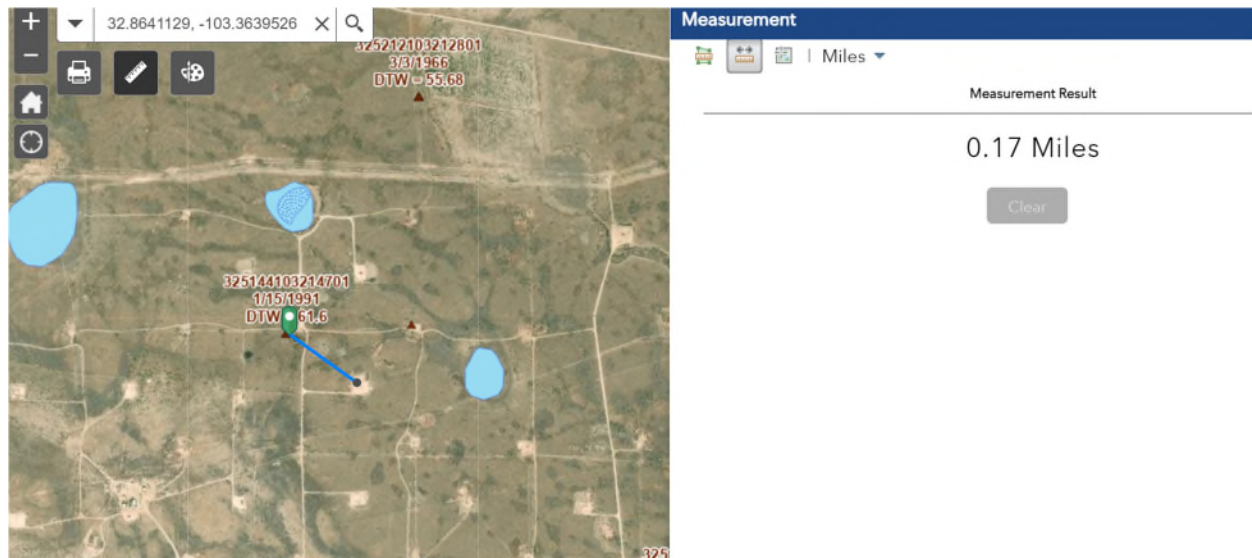
Distance to lakebed, sinkhole, or playa lake.



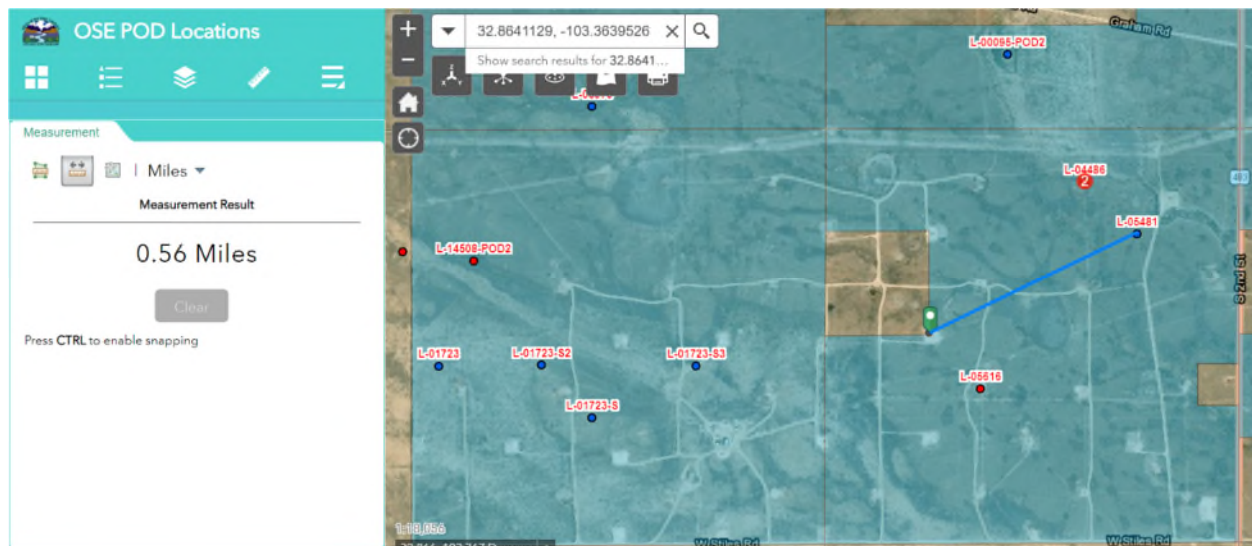
Distance to occupied permanent residence, school, hospital, institution, or church.



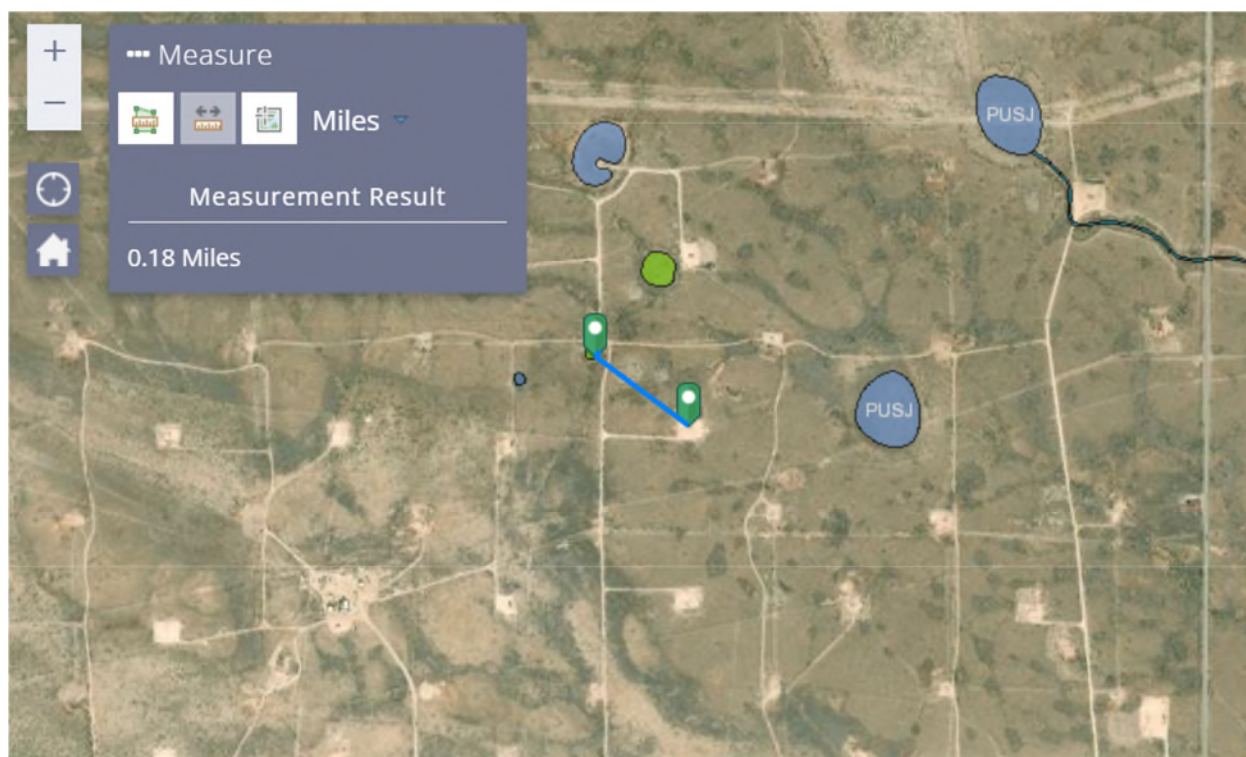
Distance to spring or private domestic fresh water well used by less than five households for domestic or stock watering purposes (USGS well 325144103214701).



Distance to any other fresh water well or spring (L-05481).



Distance to a wetland.



Appendix D

Laboratory Analytical Reports



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Morgan Jordan
ARCADIS US Inc
1004 North Big Spring
Suite 300
Midland, Texas 79701

Generated 2/1/2024 1:43:29 PM

JOB DESCRIPTION

WLU 72
Lovington, NM

JOB NUMBER

880-38218-1

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
2/1/2024 1:43:29 PM

Authorized for release by
John Builes, Project Manager
John.Builes@et.eurofinsus.com
(561)558-4549

Client: ARCADIS US Inc
Project/Site: WLU 72

Laboratory Job ID: 880-38218-1
SDG: Lovington, NM

Table of Contents

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Definitions/Glossary

Client: ARCADIS US Inc
Project/Site: WLU 72

Job ID: 880-38218-1
SDG: Lovington, NM

Qualifiers

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

GC Semi VOA

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

HPLC/IC

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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: ARCADIS US Inc
Project: WLU 72

Job ID: 880-38218-1

Job ID: 880-38218-1

Eurofins Midland

Job Narrative
880-38218-1

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 are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample 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 1/22/2024 9:18 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.7°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SB-1-S-1'-240117 (880-38218-1), SB-1-S-2'-240117 (880-38218-2), SB-2-S-1'-240117 (880-38218-3), SB-2-S-2'-240117 (880-38218-4), SB-2-S-4'-240117 (880-38218-5), SB-2-S-6'-240117 (880-38218-6), SB-3-S-1'-240117 (880-38218-7), SB-3-S-2'-240117 (880-38218-8), SB-4-S-1'-240117 (880-38218-9), SB-4-S-2'-240117 (880-38218-10), SB-5-S-1'-240117 (880-38218-11), SB-5-S-2'-240117 (880-38218-12), SB-6-S-1'-240117 (880-38218-13), SB-6-S-2'-240117 (880-38218-14), SB-7-S-1'-240117 (880-38218-15) and SB-7-S-2'-240117 (880-38218-16).

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-71518 and 880-71629 and analytical batch 880-71762 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: SB-4-S-2'-240117 (880-38218-10). 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.

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: SB-2-S-4'-240117 (880-38218-5), SB-2-S-6'-240117 (880-38218-6) and SB-3-S-2'-240117 (880-38218-8). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-71450 and analytical batch 880-71766 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-71509 and analytical batch 880-71993 was outside the upper control limits.

Method 8015MOD_NM: The method blank for preparation batch 880-71509 and analytical batch 880-71993 contained Gasoline Range Organics (GRO)-C6-C10 and 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: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-71344 and analytical batch 880-71383 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.

Eurofins Midland

Case Narrative

Client: ARCADIS US Inc
Project: WLU 72

Job ID: 880-38218-1

Job ID: 880-38218-1 (Continued)

Eurofins Midland

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

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Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: WLU 72

Job ID: 880-38218-1
SDG: Lovington, NM

Client Sample ID: SB-1-S-1'-240117

Lab Sample ID: 880-38218-1

Date Collected: 01/17/24 11:40

Matrix: Solid

Date Received: 01/22/24 09:18

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7720	F1	50.2	3.97	mg/Kg			01/22/24 22:26	10

Client Sample ID: SB-1-S-2'-240117

Lab Sample ID: 880-38218-2

Date Collected: 01/17/24 11:50

Matrix: Solid

Date Received: 01/22/24 09:18

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg		01/25/24 17:53	01/29/24 05:32	1
Toluene	<0.000453	U	0.00199	0.000453	mg/Kg		01/25/24 17:53	01/29/24 05:32	1
Ethylbenzene	<0.000562	U	0.00199	0.000562	mg/Kg		01/25/24 17:53	01/29/24 05:32	1
m-Xylene & p-Xylene	<0.00100	U	0.00398	0.00100	mg/Kg		01/25/24 17:53	01/29/24 05:32	1
o-Xylene	0.000567	J	0.00199	0.000342	mg/Kg		01/25/24 17:53	01/29/24 05:32	1
Xylenes, Total	<0.00100	U	0.00398	0.00100	mg/Kg		01/25/24 17:53	01/29/24 05:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130	01/25/24 17:53	01/29/24 05:32	1
1,4-Difluorobenzene (Surr)	103		70 - 130	01/25/24 17:53	01/29/24 05:32	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00398	0.00100	mg/Kg			01/29/24 05:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	69.4		50.3	15.1	mg/Kg			01/30/24 02:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	30.6	J *1	50.3	15.1	mg/Kg		01/23/24 13:07	01/30/24 02:51	1
Diesel Range Organics (Over C10-C28)	38.8	J	50.3	15.1	mg/Kg		01/23/24 13:07	01/30/24 02:51	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.3	15.1	mg/Kg		01/23/24 13:07	01/30/24 02:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	129		70 - 130	01/23/24 13:07	01/30/24 02:51	1
o-Terphenyl	104		70 - 130	01/23/24 13:07	01/30/24 02:51	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1550		24.9	1.97	mg/Kg			01/22/24 22:42	5

Client Sample ID: SB-2-S-1'-240117

Lab Sample ID: 880-38218-3

Date Collected: 01/17/24 12:10

Matrix: Solid

Date Received: 01/22/24 09:18

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1880		25.2	1.99	mg/Kg			01/22/24 22:47	5

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: WLU 72

Job ID: 880-38218-1
SDG: Lovington, NM

Client Sample ID: SB-2-S-2'-240117

Lab Sample ID: 880-38218-4

Date Collected: 01/17/24 12:20

Matrix: Solid

Date Received: 01/22/24 09:18

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1140		5.03	0.397	mg/Kg			01/22/24 22:52	1

Client Sample ID: SB-2-S-4'-240117

Lab Sample ID: 880-38218-5

Date Collected: 01/17/24 12:30

Matrix: Solid

Date Received: 01/22/24 09:18

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000384	U	0.00200	0.000384	mg/Kg		01/25/24 17:53	01/29/24 05:53	1
Toluene	<0.000455	U	0.00200	0.000455	mg/Kg		01/25/24 17:53	01/29/24 05:53	1
Ethylbenzene	<0.000564	U	0.00200	0.000564	mg/Kg		01/25/24 17:53	01/29/24 05:53	1
m-Xylene & p-Xylene	<0.00101	U	0.00399	0.00101	mg/Kg		01/25/24 17:53	01/29/24 05:53	1
o-Xylene	<0.000343	U	0.00200	0.000343	mg/Kg		01/25/24 17:53	01/29/24 05:53	1
Xylenes, Total	<0.00101	U	0.00399	0.00101	mg/Kg		01/25/24 17:53	01/29/24 05:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	01/25/24 17:53	01/29/24 05:53	1
1,4-Difluorobenzene (Surr)	110		70 - 130	01/25/24 17:53	01/29/24 05:53	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00399	0.00101	mg/Kg			01/29/24 05:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	76.2		49.9	15.0	mg/Kg			01/30/24 03:12	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	47.7	J *1	49.9	15.0	mg/Kg		01/23/24 13:07	01/30/24 03:12	1
Diesel Range Organics (Over C10-C28)	28.5	J	49.9	15.0	mg/Kg		01/23/24 13:07	01/30/24 03:12	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		01/23/24 13:07	01/30/24 03:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	154	S1+	70 - 130	01/23/24 13:07	01/30/24 03:12	1
o-Terphenyl	131	S1+	70 - 130	01/23/24 13:07	01/30/24 03:12	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1190		4.99	0.394	mg/Kg			01/22/24 22:57	1

Client Sample ID: SB-2-S-6'-240117

Lab Sample ID: 880-38218-6

Date Collected: 01/17/24 12:40

Matrix: Solid

Date Received: 01/22/24 09:18

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000387	U	0.00201	0.000387	mg/Kg		01/25/24 17:53	01/29/24 06:13	1
Toluene	<0.000458	U	0.00201	0.000458	mg/Kg		01/25/24 17:53	01/29/24 06:13	1
Ethylbenzene	<0.000567	U	0.00201	0.000567	mg/Kg		01/25/24 17:53	01/29/24 06:13	1

Eurofins Midland

Client Sample Results

Client: ARCADIS US Inc
Project/Site: WLU 72

Job ID: 880-38218-1
SDG: Lovington, NM

Client Sample ID: SB-2-S-6'-240117

Lab Sample ID: 880-38218-6

Date Collected: 01/17/24 12:40

Matrix: Solid

Date Received: 01/22/24 09:18

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	<0.00101	U	0.00402	0.00101	mg/Kg		01/25/24 17:53	01/29/24 06:13	1
o-Xylene	<0.000345	U	0.00201	0.000345	mg/Kg		01/25/24 17:53	01/29/24 06:13	1
Xylenes, Total	<0.00101	U	0.00402	0.00101	mg/Kg		01/25/24 17:53	01/29/24 06:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130				01/25/24 17:53	01/29/24 06:13	1
1,4-Difluorobenzene (Surr)	113		70 - 130				01/25/24 17:53	01/29/24 06:13	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00402	0.00101	mg/Kg			01/29/24 06:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	93.7		50.2	15.1	mg/Kg			01/30/24 03:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	48.3	J *1	50.2	15.1	mg/Kg		01/23/24 13:07	01/30/24 03:33	1
Diesel Range Organics (Over C10-C28)	45.4	J	50.2	15.1	mg/Kg		01/23/24 13:07	01/30/24 03:33	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.2	15.1	mg/Kg		01/23/24 13:07	01/30/24 03:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	149	S1+	70 - 130				01/23/24 13:07	01/30/24 03:33	1
o-Terphenyl	121		70 - 130				01/23/24 13:07	01/30/24 03:33	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	989		5.00	0.395	mg/Kg			01/22/24 23:13	1

Client Sample ID: SB-3-S-1'-240117

Lab Sample ID: 880-38218-7

Date Collected: 01/17/24 13:00

Matrix: Solid

Date Received: 01/22/24 09:18

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1300		25.0	1.98	mg/Kg			01/22/24 23:18	5

Client Sample ID: SB-3-S-2'-240117

Lab Sample ID: 880-38218-8

Date Collected: 01/17/24 13:10

Matrix: Solid

Date Received: 01/22/24 09:18

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg		01/25/24 17:53	01/29/24 06:34	1
Toluene	<0.000454	U	0.00199	0.000454	mg/Kg		01/25/24 17:53	01/29/24 06:34	1
Ethylbenzene	<0.000563	U	0.00199	0.000563	mg/Kg		01/25/24 17:53	01/29/24 06:34	1
m-Xylene & p-Xylene	<0.00101	U	0.00398	0.00101	mg/Kg		01/25/24 17:53	01/29/24 06:34	1
o-Xylene	0.000349	J	0.00199	0.000343	mg/Kg		01/25/24 17:53	01/29/24 06:34	1
Xylenes, Total	<0.00101	U	0.00398	0.00101	mg/Kg		01/25/24 17:53	01/29/24 06:34	1

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Client Sample Results

Client: ARCADIS US Inc
Project/Site: WLU 72

Job ID: 880-38218-1
SDG: Lovington, NM

Client Sample ID: SB-3-S-2'-240117

Lab Sample ID: 880-38218-8

Date Collected: 01/17/24 13:10

Matrix: Solid

Date Received: 01/22/24 09:18

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	01/25/24 17:53	01/29/24 06:34	1
1,4-Difluorobenzene (Surr)	117		70 - 130	01/25/24 17:53	01/29/24 06:34	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00398	0.00101	mg/Kg			01/29/24 06:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	53.0		49.9	15.0	mg/Kg			01/30/24 03:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	29.9	J *1	49.9	15.0	mg/Kg		01/23/24 13:07	01/30/24 03:54	1
Diesel Range Organics (Over C10-C28)	23.1	J	49.9	15.0	mg/Kg		01/23/24 13:07	01/30/24 03:54	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		01/23/24 13:07	01/30/24 03:54	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
1-Chlorooctane	145	S1+	70 - 130	01/23/24 13:07	01/30/24 03:54	1			
o-Terphenyl	120		70 - 130	01/23/24 13:07	01/30/24 03:54	1			

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2530		25.3	1.99	mg/Kg			01/22/24 23:23	5

Client Sample ID: SB-4-S-1'-240117

Lab Sample ID: 880-38218-9

Date Collected: 01/17/24 13:30

Matrix: Solid

Date Received: 01/22/24 09:18

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1160		5.02	0.397	mg/Kg			01/22/24 23:28	1

Client Sample ID: SB-4-S-2'-240117

Lab Sample ID: 880-38218-10

Date Collected: 01/17/24 13:40

Matrix: Solid

Date Received: 01/22/24 09:18

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg		01/25/24 17:53	01/29/24 06:54	1
Toluene	<0.000453	U	0.00199	0.000453	mg/Kg		01/25/24 17:53	01/29/24 06:54	1
Ethylbenzene	0.000817	J	0.00199	0.000562	mg/Kg		01/25/24 17:53	01/29/24 06:54	1
m-Xylene & p-Xylene	<0.00100	U	0.00398	0.00100	mg/Kg		01/25/24 17:53	01/29/24 06:54	1
o-Xylene	<0.000342	U	0.00199	0.000342	mg/Kg		01/25/24 17:53	01/29/24 06:54	1
Xylenes, Total	<0.00100	U	0.00398	0.00100	mg/Kg		01/25/24 17:53	01/29/24 06:54	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
4-Bromofluorobenzene (Surr)	239	S1+	70 - 130	01/25/24 17:53	01/29/24 06:54	1			
1,4-Difluorobenzene (Surr)	179	S1+	70 - 130	01/25/24 17:53	01/29/24 06:54	1			

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Client Sample Results

Client: ARCADIS US Inc
Project/Site: WLU 72

Job ID: 880-38218-1
SDG: Lovington, NM

Client Sample ID: SB-4-S-2'-240117

Lab Sample ID: 880-38218-10

Date Collected: 01/17/24 13:40

Matrix: Solid

Date Received: 01/22/24 09:18

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00398	0.00100	mg/Kg			01/29/24 06:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	94.9		49.6	14.9	mg/Kg			01/31/24 17:22	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	40.0	J B	49.6	14.9	mg/Kg		01/24/24 10:27	01/31/24 17:22	1
Diesel Range Organics (Over C10-C28)	54.9	B	49.6	14.9	mg/Kg		01/24/24 10:27	01/31/24 17:22	1
Oil Range Organics (Over C28-C36)	<14.9	U	49.6	14.9	mg/Kg		01/24/24 10:27	01/31/24 17:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	130		70 - 130				01/24/24 10:27	01/31/24 17:22	1
o-Terphenyl	100		70 - 130				01/24/24 10:27	01/31/24 17:22	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1300		24.9	1.97	mg/Kg			01/22/24 23:33	5

Client Sample ID: SB-5-S-1'-240117

Lab Sample ID: 880-38218-11

Date Collected: 01/17/24 14:00

Matrix: Solid

Date Received: 01/22/24 09:18

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1740		24.8	1.96	mg/Kg			01/22/24 23:39	5

Client Sample ID: SB-5-S-2'-240117

Lab Sample ID: 880-38218-12

Date Collected: 01/17/24 14:10

Matrix: Solid

Date Received: 01/22/24 09:18

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000384	U	0.00200	0.000384	mg/Kg		01/25/24 17:53	01/29/24 07:14	1
Toluene	<0.000455	U	0.00200	0.000455	mg/Kg		01/25/24 17:53	01/29/24 07:14	1
Ethylbenzene	<0.000564	U	0.00200	0.000564	mg/Kg		01/25/24 17:53	01/29/24 07:14	1
m-Xylene & p-Xylene	<0.00101	U	0.00399	0.00101	mg/Kg		01/25/24 17:53	01/29/24 07:14	1
o-Xylene	<0.000343	U	0.00200	0.000343	mg/Kg		01/25/24 17:53	01/29/24 07:14	1
Xylenes, Total	<0.00101	U	0.00399	0.00101	mg/Kg		01/25/24 17:53	01/29/24 07:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				01/25/24 17:53	01/29/24 07:14	1
1,4-Difluorobenzene (Surr)	106		70 - 130				01/25/24 17:53	01/29/24 07:14	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00399	0.00101	mg/Kg			01/29/24 07:14	1

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Client Sample Results

Client: ARCADIS US Inc
Project/Site: WLU 72

Job ID: 880-38218-1
SDG: Lovington, NM

Client Sample ID: SB-5-S-2'-240117
Date Collected: 01/17/24 14:10
Date Received: 01/22/24 09:18

Lab Sample ID: 880-38218-12
Matrix: Solid

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	69.0		50.5	15.1	mg/Kg			01/31/24 17:43	1
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	31.0	J B	50.5	15.1	mg/Kg		01/24/24 10:27	01/31/24 17:43	1
Diesel Range Organics (Over C10-C28)	38.0	J B	50.5	15.1	mg/Kg		01/24/24 10:27	01/31/24 17:43	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.5	15.1	mg/Kg		01/24/24 10:27	01/31/24 17:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	122		70 - 130				01/24/24 10:27	01/31/24 17:43	1
o-Terphenyl	95		70 - 130				01/24/24 10:27	01/31/24 17:43	1
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	660		5.01	0.396	mg/Kg			01/22/24 23:54	1

Client Sample ID: SB-6-S-1'-240117
Date Collected: 01/17/24 14:40
Date Received: 01/22/24 09:18

Lab Sample ID: 880-38218-13
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1320		25.1	1.98	mg/Kg			01/22/24 23:59	5

Client Sample ID: SB-6-S-2'-240117
Date Collected: 01/17/24 14:50
Date Received: 01/22/24 09:18

Lab Sample ID: 880-38218-14
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000387	U	0.00201	0.000387	mg/Kg		01/25/24 17:53	01/29/24 07:35	1
Toluene	<0.000459	U	0.00201	0.000459	mg/Kg		01/25/24 17:53	01/29/24 07:35	1
Ethylbenzene	<0.000568	U	0.00201	0.000568	mg/Kg		01/25/24 17:53	01/29/24 07:35	1
m-Xylene & p-Xylene	<0.00102	U	0.00402	0.00102	mg/Kg		01/25/24 17:53	01/29/24 07:35	1
o-Xylene	<0.000346	U	0.00201	0.000346	mg/Kg		01/25/24 17:53	01/29/24 07:35	1
Xylenes, Total	<0.00102	U	0.00402	0.00102	mg/Kg		01/25/24 17:53	01/29/24 07:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				01/25/24 17:53	01/29/24 07:35	1
1,4-Difluorobenzene (Surr)	103		70 - 130				01/25/24 17:53	01/29/24 07:35	1
Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00402	0.00102	mg/Kg			01/29/24 07:35	1
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	55.8		49.9	15.0	mg/Kg			01/31/24 18:03	1

Client Sample Results

Client: ARCADIS US Inc
Project/Site: WLU 72

Job ID: 880-38218-1
SDG: Lovington, NM

Client Sample ID: SB-6-S-2'-240117

Lab Sample ID: 880-38218-14

Date Collected: 01/17/24 14:50

Matrix: Solid

Date Received: 01/22/24 09:18

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	30.7	J B	49.9	15.0	mg/Kg		01/24/24 10:27	01/31/24 18:03	1
Diesel Range Organics (Over C10-C28)	25.1	J B	49.9	15.0	mg/Kg		01/24/24 10:27	01/31/24 18:03	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		01/24/24 10:27	01/31/24 18:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	125		70 - 130	01/24/24 10:27	01/31/24 18:03	1
o-Terphenyl	98		70 - 130	01/24/24 10:27	01/31/24 18:03	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1370		24.9	1.96	mg/Kg			01/23/24 00:15	5

Client Sample ID: SB-7-S-1'-240117

Lab Sample ID: 880-38218-15

Date Collected: 01/17/24 15:20

Matrix: Solid

Date Received: 01/22/24 09:18

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	121		4.99	0.394	mg/Kg			01/23/24 00:20	1

Client Sample ID: SB-7-S-2'-240117

Lab Sample ID: 880-38218-16

Date Collected: 01/17/24 15:30

Matrix: Solid

Date Received: 01/22/24 09:18

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000386	U	0.00200	0.000386	mg/Kg		01/25/24 17:53	01/29/24 07:55	1
Toluene	<0.000457	U	0.00200	0.000457	mg/Kg		01/25/24 17:53	01/29/24 07:55	1
Ethylbenzene	<0.000566	U	0.00200	0.000566	mg/Kg		01/25/24 17:53	01/29/24 07:55	1
m-Xylene & p-Xylene	<0.00101	U	0.00401	0.00101	mg/Kg		01/25/24 17:53	01/29/24 07:55	1
o-Xylene	0.000934	J	0.00200	0.000345	mg/Kg		01/25/24 17:53	01/29/24 07:55	1
Xylenes, Total	<0.00101	U	0.00401	0.00101	mg/Kg		01/25/24 17:53	01/29/24 07:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130	01/25/24 17:53	01/29/24 07:55	1
1,4-Difluorobenzene (Surr)	106		70 - 130	01/25/24 17:53	01/29/24 07:55	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00401	0.00101	mg/Kg			01/29/24 07:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	47.1	J	49.8	14.9	mg/Kg			01/31/24 18:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	30.6	J B	49.8	14.9	mg/Kg		01/24/24 10:27	01/31/24 18:23	1
Diesel Range Organics (Over C10-C28)	16.5	J B	49.8	14.9	mg/Kg		01/24/24 10:27	01/31/24 18:23	1

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Client Sample Results

Client: ARCADIS US Inc
Project/Site: WLU 72

Job ID: 880-38218-1
SDG: Lovington, NM

Client Sample ID: SB-7-S-2'-240117
Date Collected: 01/17/24 15:30
Date Received: 01/22/24 09:18

Lab Sample ID: 880-38218-16
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Oil Range Organics (Over C28-C36)	<14.9	U	49.8	14.9	mg/Kg		01/24/24 10:27	01/31/24 18:23	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	125		70 - 130				01/24/24 10:27	01/31/24 18:23	1	
o-Terphenyl	98		70 - 130				01/24/24 10:27	01/31/24 18:23	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	1200		5.03	0.397	mg/Kg			01/23/24 00:25	1	

Surrogate Summary

Client: ARCADIS US Inc
Project/Site: WLU 72

Job ID: 880-38218-1
SDG: Lovington, 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	DFBZ1				
		(70-130)	(70-130)				
880-38218-2	SB-1-S-2'-240117	88	103				
880-38218-2 MS	SB-1-S-2'-240117	96	91				
880-38218-2 MSD	SB-1-S-2'-240117	106	97				
880-38218-5	SB-2-S-4'-240117	102	110				
880-38218-6	SB-2-S-6'-240117	116	113				
880-38218-8	SB-3-S-2'-240117	112	117				
880-38218-10	SB-4-S-2'-240117	239 S1+	179 S1+				
880-38218-12	SB-5-S-2'-240117	106	106				
880-38218-14	SB-6-S-2'-240117	107	103				
880-38218-16	SB-7-S-2'-240117	123	106				
LCS 880-71629/1-A	Lab Control Sample	96	90				
LCSD 880-71629/2-A	Lab Control Sample Dup	99	101				
MB 880-71518/5-A	Method Blank	130	132 S1+				
MB 880-71629/5-A	Method Blank	117	132 S1+				
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	OTPH1				
		(70-130)	(70-130)				
880-38218-2	SB-1-S-2'-240117	129	104				
880-38218-5	SB-2-S-4'-240117	154 S1+	131 S1+				
880-38218-6	SB-2-S-6'-240117	149 S1+	121				
880-38218-8	SB-3-S-2'-240117	145 S1+	120				
880-38218-10	SB-4-S-2'-240117	130	100				
880-38218-12	SB-5-S-2'-240117	122	95				
880-38218-14	SB-6-S-2'-240117	125	98				
880-38218-16	SB-7-S-2'-240117	125	98				
LCS 880-71450/2-A	Lab Control Sample	80	71				
LCS 880-71509/2-A	Lab Control Sample	95	80				
LCSD 880-71450/3-A	Lab Control Sample Dup	90	93				
LCSD 880-71509/3-A	Lab Control Sample Dup	102	95				
MB 880-71450/1-A	Method Blank	124	105				
MB 880-71509/1-A	Method Blank	140 S1+	113				
Surrogate Legend							
1CO = 1-Chlorooctane							
OTPH = o-Terphenyl							

Eurofins Midland

QC Sample Results

Client: ARCADIS US Inc
Project/Site: WLU 72

Job ID: 880-38218-1
SDG: Lovington, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-71518/5-A

Matrix: Solid

Analysis Batch: 71762

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 71518

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		01/24/24 14:18	01/28/24 17:28	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		01/24/24 14:18	01/28/24 17:28	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		01/24/24 14:18	01/28/24 17:28	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		01/24/24 14:18	01/28/24 17:28	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		01/24/24 14:18	01/28/24 17:28	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		01/24/24 14:18	01/28/24 17:28	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130	01/24/24 14:18	01/28/24 17:28	1
1,4-Difluorobenzene (Surr)	132	S1+	70 - 130	01/24/24 14:18	01/28/24 17:28	1

Lab Sample ID: MB 880-71629/5-A

Matrix: Solid

Analysis Batch: 71762

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 71629

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		01/25/24 17:53	01/29/24 05:04	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		01/25/24 17:53	01/29/24 05:04	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		01/25/24 17:53	01/29/24 05:04	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		01/25/24 17:53	01/29/24 05:04	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		01/25/24 17:53	01/29/24 05:04	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		01/25/24 17:53	01/29/24 05:04	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	01/25/24 17:53	01/29/24 05:04	1
1,4-Difluorobenzene (Surr)	132	S1+	70 - 130	01/25/24 17:53	01/29/24 05:04	1

Lab Sample ID: LCS 880-71629/1-A

Matrix: Solid

Analysis Batch: 71762

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 71629

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08742		mg/Kg		87	70 - 130
Toluene	0.100	0.08856		mg/Kg		89	70 - 130
Ethylbenzene	0.100	0.08928		mg/Kg		89	70 - 130
m-Xylene & p-Xylene	0.200	0.1698		mg/Kg		85	70 - 130
o-Xylene	0.100	0.08422		mg/Kg		84	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	90		70 - 130

Lab Sample ID: LCSD 880-71629/2-A

Matrix: Solid

Analysis Batch: 71762

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 71629

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08672		mg/Kg		87	70 - 130	1	35

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QC Sample Results

Client: ARCADIS US Inc
Project/Site: WLU 72

Job ID: 880-38218-1
SDG: Lovington, NM

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

Lab Sample ID: LCSD 880-71629/2-A
Matrix: Solid
Analysis Batch: 71762

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 71629

Analyte	Spike		LCSD	LCSD	Unit	D	%Rec	%Rec		RPD
	Added	Result	Qualifier	Limit				Limits	RPD	Limit
Toluene	0.100	0.07950			mg/Kg		79	70 - 130	11	35
Ethylbenzene	0.100	0.08451			mg/Kg		85	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.1645			mg/Kg		82	70 - 130	3	35
o-Xylene	0.100	0.08226			mg/Kg		82	70 - 130	2	35
LCSD		LCSD								
Surrogate	%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	99		70 - 130							
1,4-Difluorobenzene (Surr)	101		70 - 130							

Lab Sample ID: 880-38218-2 MS
Matrix: Solid
Analysis Batch: 71762

Client Sample ID: SB-1-S-2'-240117
Prep Type: Total/NA
Prep Batch: 71629

Analyte	Sample		Spike	MS		Unit	D	%Rec	%Rec	
	Result	Qualifier		Result	Qualifier				Limits	RPD
Benzene	<0.000383	U	0.0996	0.07322		mg/Kg		74	70 - 130	
Toluene	<0.000453	U	0.0996	0.07487		mg/Kg		75	70 - 130	
Ethylbenzene	<0.000562	U	0.0996	0.07174		mg/Kg		72	70 - 130	
m-Xylene & p-Xylene	<0.00100	U	0.199	0.1501		mg/Kg		75	70 - 130	
o-Xylene	0.000567	J	0.0996	0.07537		mg/Kg		75	70 - 130	
MS		MS								
Surrogate	%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	96		70 - 130							
1,4-Difluorobenzene (Surr)	91		70 - 130							

Lab Sample ID: 880-38218-2 MSD
Matrix: Solid
Analysis Batch: 71762

Client Sample ID: SB-1-S-2'-240117
Prep Type: Total/NA
Prep Batch: 71629

Analyte	Sample		Spike	MSD		Unit	D	%Rec	%Rec		RPD
	Result	Qualifier		Result	Qualifier				Limits	RPD	Limit
Benzene	<0.000383	U	0.0990	0.09573		mg/Kg		97	70 - 130	27	35
Toluene	<0.000453	U	0.0990	0.08782		mg/Kg		89	70 - 130	16	35
Ethylbenzene	<0.000562	U	0.0990	0.09267		mg/Kg		94	70 - 130	25	35
m-Xylene & p-Xylene	<0.00100	U	0.198	0.1987		mg/Kg		100	70 - 130	28	35
o-Xylene	0.000567	J	0.0990	0.09951		mg/Kg		100	70 - 130	28	35
MSD		MSD									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	106		70 - 130								
1,4-Difluorobenzene (Surr)	97		70 - 130								

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

Lab Sample ID: MB 880-71450/1-A
Matrix: Solid
Analysis Batch: 71766

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 71450

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		01/23/24 13:07	01/29/24 19:05	1

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QC Sample Results

Client: ARCADIS US Inc
Project/Site: WLU 72

Job ID: 880-38218-1
SDG: Lovington, NM

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

Lab Sample ID: MB 880-71450/1-A
Matrix: Solid
Analysis Batch: 71766

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 71450

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		01/23/24 13:07	01/29/24 19:05	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		01/23/24 13:07	01/29/24 19:05	1
Surrogate	MB	MB	Limits				Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier							
1-Chlorooctane	124		70 - 130				01/23/24 13:07	01/29/24 19:05	1
o-Terphenyl	105		70 - 130				01/23/24 13:07	01/29/24 19:05	1

Lab Sample ID: LCS 880-71450/2-A
Matrix: Solid
Analysis Batch: 71766

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 71450

Analyte	Spike		LCS	LCS	Unit	D	%Rec	%Rec	Limits		
	Added		Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	1000		1170		mg/Kg		117		70 - 130		
Diesel Range Organics (Over C10-C28)	1000		963.2		mg/Kg		96		70 - 130		
		LCS	LCS								
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	80		70 - 130								
o-Terphenyl	71		70 - 130								

Lab Sample ID: LCSD 880-71450/3-A
Matrix: Solid
Analysis Batch: 71766

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 71450

Analyte			Spike	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	RPD
			Added	Result	Qualifier				Limits		Limit
Gasoline Range Organics (GRO)-C6-C10			1000	918.4	*1	mg/Kg		92	70 - 130	24	20
Diesel Range Organics (Over C10-C28)			1000	1051		mg/Kg		105	70 - 130	9	20
Surrogate	LCSD	LCSD	Limits								
	%Recovery	Qualifier									
1-Chlorooctane	90		70 - 130								
o-Terphenyl	93		70 - 130								

Lab Sample ID: MB 880-71509/1-A
Matrix: Solid
Analysis Batch: 71993

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 71509

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	16.34	J	50.0	15.0	mg/Kg		01/24/24 10:27	01/31/24 08:11	1
Diesel Range Organics (Over C10-C28)	18.55	J	50.0	15.0	mg/Kg		01/24/24 10:27	01/31/24 08:11	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		01/24/24 10:27	01/31/24 08:11	1
Surrogate	MB	MB	Limits				Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier							
1-Chlorooctane	140	S1+	70 - 130				01/24/24 10:27	01/31/24 08:11	1

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QC Sample Results

Client: ARCADIS US Inc
Project/Site: WLU 72

Job ID: 880-38218-1
SDG: Lovington, NM

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

Lab Sample ID: MB 880-71509/1-A

Matrix: Solid

Analysis Batch: 71993

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 71509

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
<i>o</i> -Terphenyl	113		70 - 130	01/24/24 10:27	01/31/24 08:11	1			

Lab Sample ID: LCS 880-71509/2-A

Matrix: Solid

Analysis Batch: 71993

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 71509

			Spike	LCS	LCS				%Rec		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1097		mg/Kg		110	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	985.1		mg/Kg		99	70 - 130		
Surrogate		LCS	LCS								
	%Recovery	Qualifier	Limits								
1-Chlorooctane	95		70 - 130								
<i>o</i> -Terphenyl	80		70 - 130								

Lab Sample ID: LCSD 880-71509/3-A

Matrix: Solid

Analysis Batch: 71993

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 71509

			Spike	LCSD	LCSD				%Rec		RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10			1000	1063		mg/Kg		106	70 - 130	3	20	
Diesel Range Organics (Over C10-C28)			1000	945.1		mg/Kg		95	70 - 130	4	20	
Surrogate		LCSD	LCSD									
	%Recovery	Qualifier	Limits									
1-Chlorooctane	102		70 - 130									
<i>o</i> -Terphenyl	95		70 - 130									

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-71344/1-A

Matrix: Solid

Analysis Batch: 71383

Client Sample ID: Method Blank

Prep Type: Soluble

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	<0.395	U	5.00	0.395	mg/Kg			01/22/24 22:11	1	

Lab Sample ID: LCS 880-71344/2-A

Matrix: Solid

Analysis Batch: 71383

Client Sample ID: Lab Control Sample

Prep Type: Soluble

			Spike	LCS	LCS				%Rec		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride			250	253.2		mg/Kg		101	90 - 110		

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QC Sample Results

Client: ARCADIS US Inc
Project/Site: WLU 72

Job ID: 880-38218-1
SDG: Lovington, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-71344/3-A				Client Sample ID: Lab Control Sample Dup							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 71383											
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	255.7		mg/Kg		102	90 - 110	1	20

Lab Sample ID: 880-38218-1 MS				Client Sample ID: SB-1-S-1'-240117							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 71383											
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	7720	F1	2510	10500	F1	mg/Kg		111	90 - 110		

Lab Sample ID: 880-38218-1 MSD				Client Sample ID: SB-1-S-1'-240117							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 71383											
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	7720	F1	2510	10480		mg/Kg		110	90 - 110	0	20

Lab Sample ID: 880-38218-11 MS				Client Sample ID: SB-5-S-1'-240117							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 71383											
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	1740		1240	2986		mg/Kg		100	90 - 110		

Lab Sample ID: 880-38218-11 MSD				Client Sample ID: SB-5-S-1'-240117							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 71383											
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1740		1240	3017		mg/Kg		103	90 - 110	1	20

QC Association Summary

Client: ARCADIS US Inc
Project/Site: WLU 72

Job ID: 880-38218-1
SDG: Lovington, NM

GC VOA

Prep Batch: 71518

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-71518/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 71629

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38218-2	SB-1-S-2'-240117	Total/NA	Solid	5030B	
880-38218-5	SB-2-S-4'-240117	Total/NA	Solid	5030B	
880-38218-6	SB-2-S-6'-240117	Total/NA	Solid	5030B	
880-38218-8	SB-3-S-2'-240117	Total/NA	Solid	5030B	
880-38218-10	SB-4-S-2'-240117	Total/NA	Solid	5030B	
880-38218-12	SB-5-S-2'-240117	Total/NA	Solid	5030B	
880-38218-14	SB-6-S-2'-240117	Total/NA	Solid	5030B	
880-38218-16	SB-7-S-2'-240117	Total/NA	Solid	5030B	
MB 880-71629/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-71629/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-71629/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
880-38218-2 MS	SB-1-S-2'-240117	Total/NA	Solid	5030B	
880-38218-2 MSD	SB-1-S-2'-240117	Total/NA	Solid	5030B	

Analysis Batch: 71762

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38218-2	SB-1-S-2'-240117	Total/NA	Solid	8021B	71629
880-38218-5	SB-2-S-4'-240117	Total/NA	Solid	8021B	71629
880-38218-6	SB-2-S-6'-240117	Total/NA	Solid	8021B	71629
880-38218-8	SB-3-S-2'-240117	Total/NA	Solid	8021B	71629
880-38218-10	SB-4-S-2'-240117	Total/NA	Solid	8021B	71629
880-38218-12	SB-5-S-2'-240117	Total/NA	Solid	8021B	71629
880-38218-14	SB-6-S-2'-240117	Total/NA	Solid	8021B	71629
880-38218-16	SB-7-S-2'-240117	Total/NA	Solid	8021B	71629
MB 880-71518/5-A	Method Blank	Total/NA	Solid	8021B	71518
MB 880-71629/5-A	Method Blank	Total/NA	Solid	8021B	71629
LCS 880-71629/1-A	Lab Control Sample	Total/NA	Solid	8021B	71629
LCSD 880-71629/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	71629
880-38218-2 MS	SB-1-S-2'-240117	Total/NA	Solid	8021B	71629
880-38218-2 MSD	SB-1-S-2'-240117	Total/NA	Solid	8021B	71629

Analysis Batch: 71821

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38218-2	SB-1-S-2'-240117	Total/NA	Solid	Total BTEX	
880-38218-5	SB-2-S-4'-240117	Total/NA	Solid	Total BTEX	
880-38218-6	SB-2-S-6'-240117	Total/NA	Solid	Total BTEX	
880-38218-8	SB-3-S-2'-240117	Total/NA	Solid	Total BTEX	
880-38218-10	SB-4-S-2'-240117	Total/NA	Solid	Total BTEX	
880-38218-12	SB-5-S-2'-240117	Total/NA	Solid	Total BTEX	
880-38218-14	SB-6-S-2'-240117	Total/NA	Solid	Total BTEX	
880-38218-16	SB-7-S-2'-240117	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 71450

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38218-2	SB-1-S-2'-240117	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: ARCADIS US Inc
Project/Site: WLU 72

Job ID: 880-38218-1
SDG: Lovington, NM

GC Semi VOA (Continued)

Prep Batch: 71450 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38218-5	SB-2-S-4'-240117	Total/NA	Solid	8015NM Prep	
880-38218-6	SB-2-S-6'-240117	Total/NA	Solid	8015NM Prep	
880-38218-8	SB-3-S-2'-240117	Total/NA	Solid	8015NM Prep	
MB 880-71450/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-71450/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-71450/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 71509

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38218-10	SB-4-S-2'-240117	Total/NA	Solid	8015NM Prep	
880-38218-12	SB-5-S-2'-240117	Total/NA	Solid	8015NM Prep	
880-38218-14	SB-6-S-2'-240117	Total/NA	Solid	8015NM Prep	
880-38218-16	SB-7-S-2'-240117	Total/NA	Solid	8015NM Prep	
MB 880-71509/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-71509/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-71509/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 71766

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38218-2	SB-1-S-2'-240117	Total/NA	Solid	8015B NM	71450
880-38218-5	SB-2-S-4'-240117	Total/NA	Solid	8015B NM	71450
880-38218-6	SB-2-S-6'-240117	Total/NA	Solid	8015B NM	71450
880-38218-8	SB-3-S-2'-240117	Total/NA	Solid	8015B NM	71450
MB 880-71450/1-A	Method Blank	Total/NA	Solid	8015B NM	71450
LCS 880-71450/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	71450
LCSD 880-71450/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	71450

Analysis Batch: 71929

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38218-2	SB-1-S-2'-240117	Total/NA	Solid	8015 NM	
880-38218-5	SB-2-S-4'-240117	Total/NA	Solid	8015 NM	
880-38218-6	SB-2-S-6'-240117	Total/NA	Solid	8015 NM	
880-38218-8	SB-3-S-2'-240117	Total/NA	Solid	8015 NM	
880-38218-10	SB-4-S-2'-240117	Total/NA	Solid	8015 NM	
880-38218-12	SB-5-S-2'-240117	Total/NA	Solid	8015 NM	
880-38218-14	SB-6-S-2'-240117	Total/NA	Solid	8015 NM	
880-38218-16	SB-7-S-2'-240117	Total/NA	Solid	8015 NM	

Analysis Batch: 71993

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38218-10	SB-4-S-2'-240117	Total/NA	Solid	8015B NM	71509
880-38218-12	SB-5-S-2'-240117	Total/NA	Solid	8015B NM	71509
880-38218-14	SB-6-S-2'-240117	Total/NA	Solid	8015B NM	71509
880-38218-16	SB-7-S-2'-240117	Total/NA	Solid	8015B NM	71509
MB 880-71509/1-A	Method Blank	Total/NA	Solid	8015B NM	71509
LCS 880-71509/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	71509
LCSD 880-71509/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	71509

Eurofins Midland

QC Association Summary

Client: ARCADIS US Inc
Project/Site: WLU 72

Job ID: 880-38218-1
SDG: Lovington, NM

HPLC/IC

Leach Batch: 71344

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38218-1	SB-1-S-1'-240117	Soluble	Solid	DI Leach	
880-38218-2	SB-1-S-2'-240117	Soluble	Solid	DI Leach	
880-38218-3	SB-2-S-1'-240117	Soluble	Solid	DI Leach	
880-38218-4	SB-2-S-2'-240117	Soluble	Solid	DI Leach	
880-38218-5	SB-2-S-4'-240117	Soluble	Solid	DI Leach	
880-38218-6	SB-2-S-6'-240117	Soluble	Solid	DI Leach	
880-38218-7	SB-3-S-1'-240117	Soluble	Solid	DI Leach	
880-38218-8	SB-3-S-2'-240117	Soluble	Solid	DI Leach	
880-38218-9	SB-4-S-1'-240117	Soluble	Solid	DI Leach	
880-38218-10	SB-4-S-2'-240117	Soluble	Solid	DI Leach	
880-38218-11	SB-5-S-1'-240117	Soluble	Solid	DI Leach	
880-38218-12	SB-5-S-2'-240117	Soluble	Solid	DI Leach	
880-38218-13	SB-6-S-1'-240117	Soluble	Solid	DI Leach	
880-38218-14	SB-6-S-2'-240117	Soluble	Solid	DI Leach	
880-38218-15	SB-7-S-1'-240117	Soluble	Solid	DI Leach	
880-38218-16	SB-7-S-2'-240117	Soluble	Solid	DI Leach	
MB 880-71344/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-71344/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-71344/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-38218-1 MS	SB-1-S-1'-240117	Soluble	Solid	DI Leach	
880-38218-1 MSD	SB-1-S-1'-240117	Soluble	Solid	DI Leach	
880-38218-11 MS	SB-5-S-1'-240117	Soluble	Solid	DI Leach	
880-38218-11 MSD	SB-5-S-1'-240117	Soluble	Solid	DI Leach	

Analysis Batch: 71383

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38218-1	SB-1-S-1'-240117	Soluble	Solid	300.0	71344
880-38218-2	SB-1-S-2'-240117	Soluble	Solid	300.0	71344
880-38218-3	SB-2-S-1'-240117	Soluble	Solid	300.0	71344
880-38218-4	SB-2-S-2'-240117	Soluble	Solid	300.0	71344
880-38218-5	SB-2-S-4'-240117	Soluble	Solid	300.0	71344
880-38218-6	SB-2-S-6'-240117	Soluble	Solid	300.0	71344
880-38218-7	SB-3-S-1'-240117	Soluble	Solid	300.0	71344
880-38218-8	SB-3-S-2'-240117	Soluble	Solid	300.0	71344
880-38218-9	SB-4-S-1'-240117	Soluble	Solid	300.0	71344
880-38218-10	SB-4-S-2'-240117	Soluble	Solid	300.0	71344
880-38218-11	SB-5-S-1'-240117	Soluble	Solid	300.0	71344
880-38218-12	SB-5-S-2'-240117	Soluble	Solid	300.0	71344
880-38218-13	SB-6-S-1'-240117	Soluble	Solid	300.0	71344
880-38218-14	SB-6-S-2'-240117	Soluble	Solid	300.0	71344
880-38218-15	SB-7-S-1'-240117	Soluble	Solid	300.0	71344
880-38218-16	SB-7-S-2'-240117	Soluble	Solid	300.0	71344
MB 880-71344/1-A	Method Blank	Soluble	Solid	300.0	71344
LCS 880-71344/2-A	Lab Control Sample	Soluble	Solid	300.0	71344
LCSD 880-71344/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	71344
880-38218-1 MS	SB-1-S-1'-240117	Soluble	Solid	300.0	71344
880-38218-1 MSD	SB-1-S-1'-240117	Soluble	Solid	300.0	71344
880-38218-11 MS	SB-5-S-1'-240117	Soluble	Solid	300.0	71344
880-38218-11 MSD	SB-5-S-1'-240117	Soluble	Solid	300.0	71344

Eurofins Midland

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: WLU 72

Job ID: 880-38218-1
SDG: Lovington, NM

Client Sample ID: SB-1-S-1'-240117
Date Collected: 01/17/24 11:40
Date Received: 01/22/24 09:18

Lab Sample ID: 880-38218-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	71344	01/22/24 14:57	SA	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	71383	01/22/24 22:26	SMC	EET MID

Client Sample ID: SB-1-S-2'-240117
Date Collected: 01/17/24 11:50
Date Received: 01/22/24 09:18

Lab Sample ID: 880-38218-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.03 g	5 mL	71629	01/25/24 17:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71762	01/29/24 05:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71821	01/29/24 05:32	SM	EET MID
Total/NA	Analysis	8015 NM		1			71929	01/30/24 02:51	SM	EET MID
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	71450	01/23/24 13:07	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71766	01/30/24 02:51	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	71344	01/22/24 14:57	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	71383	01/22/24 22:42	SMC	EET MID

Client Sample ID: SB-2-S-1'-240117
Date Collected: 01/17/24 12:10
Date Received: 01/22/24 09:18

Lab Sample ID: 880-38218-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	71344	01/22/24 14:57	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	71383	01/22/24 22:47	SMC	EET MID

Client Sample ID: SB-2-S-2'-240117
Date Collected: 01/17/24 12:20
Date Received: 01/22/24 09:18

Lab Sample ID: 880-38218-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.97 g	50 mL	71344	01/22/24 14:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	71383	01/22/24 22:52	SMC	EET MID

Client Sample ID: SB-2-S-4'-240117
Date Collected: 01/17/24 12:30
Date Received: 01/22/24 09:18

Lab Sample ID: 880-38218-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.01 g	5 mL	71629	01/25/24 17:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71762	01/29/24 05:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71821	01/29/24 05:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			71929	01/30/24 03:12	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	71450	01/23/24 13:07	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71766	01/30/24 03:12	SM	EET MID

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: WLU 72

Job ID: 880-38218-1
SDG: Lovington, NM

Client Sample ID: SB-2-S-4'-240117
Date Collected: 01/17/24 12:30
Date Received: 01/22/24 09:18

Lab Sample ID: 880-38218-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	71344	01/22/24 14:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	71383	01/22/24 22:57	SMC	EET MID

Client Sample ID: SB-2-S-6'-240117
Date Collected: 01/17/24 12:40
Date Received: 01/22/24 09:18

Lab Sample ID: 880-38218-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.98 g	5 mL	71629	01/25/24 17:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71762	01/29/24 06:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71821	01/29/24 06:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			71929	01/30/24 03:33	SM	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	71450	01/23/24 13:07	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71766	01/30/24 03:33	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	71344	01/22/24 14:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	71383	01/22/24 23:13	SMC	EET MID

Client Sample ID: SB-3-S-1'-240117
Date Collected: 01/17/24 13:00
Date Received: 01/22/24 09:18

Lab Sample ID: 880-38218-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.00 g	50 mL	71344	01/22/24 14:57	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	71383	01/22/24 23:18	SMC	EET MID

Client Sample ID: SB-3-S-2'-240117
Date Collected: 01/17/24 13:10
Date Received: 01/22/24 09:18

Lab Sample ID: 880-38218-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.02 g	5 mL	71629	01/25/24 17:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71762	01/29/24 06:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71821	01/29/24 06:34	SM	EET MID
Total/NA	Analysis	8015 NM		1			71929	01/30/24 03:54	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	71450	01/23/24 13:07	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71766	01/30/24 03:54	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	71344	01/22/24 14:57	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	71383	01/22/24 23:23	SMC	EET MID

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: WLU 72

Job ID: 880-38218-1
SDG: Lovington, NM

Client Sample ID: SB-4-S-1'-240117

Lab Sample ID: 880-38218-9

Date Collected: 01/17/24 13:30

Matrix: Solid

Date Received: 01/22/24 09:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	71344	01/22/24 14:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	71383	01/22/24 23:28	SMC	EET MID

Client Sample ID: SB-4-S-2'-240117

Lab Sample ID: 880-38218-10

Date Collected: 01/17/24 13:40

Matrix: Solid

Date Received: 01/22/24 09:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.03 g	5 mL	71629	01/25/24 17:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71762	01/29/24 06:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71821	01/29/24 06:54	SM	EET MID
Total/NA	Analysis	8015 NM		1			71929	01/31/24 17:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	71509	01/24/24 10:27	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71993	01/31/24 17:22	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	71344	01/22/24 14:57	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	71383	01/22/24 23:33	SMC	EET MID

Client Sample ID: SB-5-S-1'-240117

Lab Sample ID: 880-38218-11

Date Collected: 01/17/24 14:00

Matrix: Solid

Date Received: 01/22/24 09:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	71344	01/22/24 14:57	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	71383	01/22/24 23:39	SMC	EET MID

Client Sample ID: SB-5-S-2'-240117

Lab Sample ID: 880-38218-12

Date Collected: 01/17/24 14:10

Matrix: Solid

Date Received: 01/22/24 09:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.01 g	5 mL	71629	01/25/24 17:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71762	01/29/24 07:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71821	01/29/24 07:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			71929	01/31/24 17:43	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	71509	01/24/24 10:27	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71993	01/31/24 17:43	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	71344	01/22/24 14:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	71383	01/22/24 23:54	SMC	EET MID

Lab Chronicle

Client: ARCADIS US Inc
Project/Site: WLU 72

Job ID: 880-38218-1
SDG: Lovington, NM

Client Sample ID: SB-6-S-1'-240117
Date Collected: 01/17/24 14:40
Date Received: 01/22/24 09:18

Lab Sample ID: 880-38218-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	71344	01/22/24 14:57	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	71383	01/22/24 23:59	SMC	EET MID

Client Sample ID: SB-6-S-2'-240117
Date Collected: 01/17/24 14:50
Date Received: 01/22/24 09:18

Lab Sample ID: 880-38218-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.97 g	5 mL	71629	01/25/24 17:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71762	01/29/24 07:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71821	01/29/24 07:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			71929	01/31/24 18:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	71509	01/24/24 10:27	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71993	01/31/24 18:03	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	71344	01/22/24 14:57	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	71383	01/23/24 00:15	SMC	EET MID

Client Sample ID: SB-7-S-1'-240117
Date Collected: 01/17/24 15:20
Date Received: 01/22/24 09:18

Lab Sample ID: 880-38218-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	71344	01/22/24 14:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	71383	01/23/24 00:20	SMC	EET MID

Client Sample ID: SB-7-S-2'-240117
Date Collected: 01/17/24 15:30
Date Received: 01/22/24 09:18

Lab Sample ID: 880-38218-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.99 g	5 mL	71629	01/25/24 17:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71762	01/29/24 07:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71821	01/29/24 07:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			71929	01/31/24 18:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	71509	01/24/24 10:27	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71993	01/31/24 18:23	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	71344	01/22/24 14:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	71383	01/23/24 00:25	SMC	EET MID

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

Accreditation/Certification Summary

Client: ARCADIS US Inc
Project/Site: WLU 72

Job ID: 880-38218-1
SDG: Lovington, 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	T104704400-23-26	06-30-24
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: ARCADIS US Inc
Project/Site: WLU 72

Job ID: 880-38218-1
SDG: Lovington, 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
5030B	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: ARCADIS US Inc
Project/Site: WLU 72

Job ID: 880-38218-1
SDG: Lovington, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-38218-1	SB-1-S-1'-240117	Solid	01/17/24 11:40	01/22/24 09:18
880-38218-2	SB-1-S-2'-240117	Solid	01/17/24 11:50	01/22/24 09:18
880-38218-3	SB-2-S-1'-240117	Solid	01/17/24 12:10	01/22/24 09:18
880-38218-4	SB-2-S-2'-240117	Solid	01/17/24 12:20	01/22/24 09:18
880-38218-5	SB-2-S-4'-240117	Solid	01/17/24 12:30	01/22/24 09:18
880-38218-6	SB-2-S-6'-240117	Solid	01/17/24 12:40	01/22/24 09:18
880-38218-7	SB-3-S-1'-240117	Solid	01/17/24 13:00	01/22/24 09:18
880-38218-8	SB-3-S-2'-240117	Solid	01/17/24 13:10	01/22/24 09:18
880-38218-9	SB-4-S-1'-240117	Solid	01/17/24 13:30	01/22/24 09:18
880-38218-10	SB-4-S-2'-240117	Solid	01/17/24 13:40	01/22/24 09:18
880-38218-11	SB-5-S-1'-240117	Solid	01/17/24 14:00	01/22/24 09:18
880-38218-12	SB-5-S-2'-240117	Solid	01/17/24 14:10	01/22/24 09:18
880-38218-13	SB-6-S-1'-240117	Solid	01/17/24 14:40	01/22/24 09:18
880-38218-14	SB-6-S-2'-240117	Solid	01/17/24 14:50	01/22/24 09:18
880-38218-15	SB-7-S-1'-240117	Solid	01/17/24 15:20	01/22/24 09:18
880-38218-16	SB-7-S-2'-240117	Solid	01/17/24 15:30	01/22/24 09:18

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Eurofins Midland

1211 W. Florida Ave
Midland TX 79701
Phone (432) 704-5440

Chain of Custody Record



880-38218 Chain of Custody

Client Information		Sampler: <u>Heath Boyd</u>	Lab PM: <u>Bules John</u>	Carrier/Track									
Client Contact: <u>Mr Morgan Jordan</u>	Phone: <u>575-390-4618</u>	E-Mail: <u>John Bules@eurofins.com</u>	State of Orig: <u>NM</u>										
Company: <u>ARCADIS US Inc</u>	PM/SD: <u></u>												
Address: <u>1004 North Big Spring Suite 300</u>		Due Date Requested											
City: <u>Midland</u>	TAT Requested (days): <u>Standard</u>												
State Zip: <u>TX, 79701</u>	Compliance Project: <u>Δ Yes Δ No</u>												
Phone: <u>281-644-9437 (Tel)</u>	PO #: <u></u>												
Email: <u>douglas.jordan@arcadis.com</u>	Purchase Order Requested												
Project Name: <u>MLW 72</u>	Project #: <u>88002030209673</u>	Tissue <u>3</u>											
Site: <u>Lovington, NM</u>	SSOV#: <u></u>												
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab, BI=Tissue, A=Air)	Matrix (W=Water, S=Soil, O=Organic, BI=Tissue, A=Air)	Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		300_ORGFM-2807, 8015MOD_NM, 8021B		300-ORGFM-2807	
SB-1-S-1'-240117	1/17/24	1140	G	Solid			X						
SB-1-S-2'-240117		1150		Solid			X						
SB-2-S-1'-240117		1210		Solid			X						
SB-2-S-2'-240117		1220		Solid			X						
SB-2-S-4'-240117		1230		Solid			X						
SB-2-S-6'-240117		1240		Solid			X						
SB-3-S-1'-240117		1300		Solid			X						
SB-3-S-2'-240117		1310		Solid			X						
SB-4-S-1'-240117		1330		Solid			X						
SB-4-S-2'-240117		1340		Solid			X						
SB-5-S-1'-240117		1400	X	Solid			X						
Possible Hazard Identification		<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For <u>Months</u>							
Deliverable Requested I II III IV Other (specify)				Special Instructions/QC Requirements									
Empty Kit Relinquished by		Date	Time	Method of Shipment:									
Relinquished by: <u>[Signature]</u>	Date/Time: <u>1/19/24 1510</u>	Company: <u>ARCADIS</u>	Received by: <u>Madira Gonzalez</u>	Date/Time: <u>3:09pm 1-19-24</u>	Company: <u></u>								
Relinquished by: <u>Madira Gonzalez</u>	Date/Time: <u></u>	Company: <u></u>	Received by: <u>[Signature]</u>	Date/Time: <u>1/21/24 918</u>	Company: <u></u>								
Custody Seals Intact: <u>Δ Yes Δ No</u>	Custody Seal No	Cooler Temperature(s) °C and Other Remarks: <u>2.5/2.7</u>											

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Eurofins Midland

1211 W. Florida Ave
Midland TX 79701
Phone (432) 704-5440

Chain of Custody Record

Loc: 880
38218
Environment Testing

Client Information		Sampler: <u>Heath Boyd</u>		Lab PM: <u>Builes John</u>		Carrier Tracking No(s):	
Client Contact: <u>Mr Morgan Jordan</u>		Phone: <u>575-390-4618</u>		E-Mail: <u>John Builes@et.eurofins.com</u>		State of Origin: <u>NM</u>	
Company: <u>ARCADIS US Inc</u>		PWSID:		Analysis Requested			
Address: <u>1004 North Big Spring Suite 300</u>		Due Date Requested:					
City: <u>Midland</u>		TAT Requested (days): <u>Standard</u>					
State/Zip: <u>TX 79701</u>		Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
Phone: <u>281-644-9437(Tel)</u>		Purchase Order Requested					
Email: <u>douglas.jordan@arcadis.com</u>		WO #:					
Project Name: <u>WLU 72 WLU Water Intake station</u>		Project #:					
Site: <u>Lowington, NM</u>		SSOW#:					
Sample Identification		Sample Date	Sample Time	Sample Type (G=Comp, B=Tissue, A=Air)	Matrix (W=Water, S=Soil, O=Organism, BI=Tissue, A=Air)	Field Filtered Sample (Yes or No)	
						Perform MS/MSD (Yes or No)	
						300-ORC-28D, 8015MOD_NM, 8021B	
						300-ORC-7FM-28D	
						Total Number of containers	
						Special Instructions/Note:	
						Preservation Codes	
						A. HCL M. Hexane	
						B. NaOH N. None	
						C. Zn Acetate O. ASHAC2	
						D. Nitric Acid P. Na2OAS	
						E. NaHSO4 Q. Na2SO3	
						F. MeOH R. Na2S2O3	
						G. Amorph S. H2SO4	
						H. Ascorbic Acid T. TSP Dodecylhydrate	
						I. Ice U. Acetone	
						J. DI Water V. MCAA	
						K. EDTA W. pH 4-5	
						L. EDA Y. Trizma	
						Z. other (specify)	
						Other:	
						Possible Hazard Identification	
						<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological	
						Deliverable Requested I II III IV Other (specify)	
						Empty Kit Relinquished by	
						Relinquished by: <u>[Signature]</u> Date: <u>1/19/24</u> Time: <u>1510</u> Company: <u>ARCADIS</u>	
						Relinquished by: <u>Adria Gonzalez</u> Date/Time: <u>1/22/24 918</u> Company: <u>[Signature]</u>	
						Relinquished by: <u>[Signature]</u> Date/Time: <u>1/22/24 918</u> Company: <u>[Signature]</u>	
						Custody Seals Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Custody Seal No	
						Cooler Temperature(s) °C and Other Remarks:	

Login Sample Receipt Checklist

Client: ARCADIS US Inc

Job Number: 880-38218-1

SDG Number: Lovington, NM

Login Number: 38218

List Number: 1

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Morgan Jordan
Arcadis U.S., Inc.
1004 North Big Spring
Suite 300
Midland, Texas 79701

Generated 4/24/2024 12:16:32 PM

JOB DESCRIPTION

WLU 72
Lovington, NM

JOB NUMBER

880-42364-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland

Job Notes

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

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

Authorization



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4/24/2024 12:16:32 PM

Authorized for release by
John Builes, Project Manager
John.Builes@et.eurofinsus.com
(561)558-4549

Client: Arcadis U.S., Inc.
Project/Site: WLU 72

Laboratory Job ID: 880-42364-1
SDG: Lovington, NM

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Definitions/Glossary

Client: Arcadis U.S., Inc.
Project/Site: WLU 72

Job ID: 880-42364-1
SDG: Lovington, NM

Qualifiers

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: Arcadis U.S., Inc.
Project: WLU 72

Job ID: 880-42364-1

Job ID: 880-42364-1

Eurofins Midland

Job Narrative 880-42364-1

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 are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample 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 4/17/2024 1:00 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.0°C.

HPLC/IC

Method 300_ORGFM_28D - Soluble: The Chloride matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-78641 and analytical batch 880-78710 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.

SB - 8 - 2' -3' (880-42364-1), SB - 8 - 6' -7' (880-42364-2), (880-42362-A-8-A), (880-42362-A-8-B MS) and (880-42362-A-8-C MSD)

Method 300_ORGFM_28D - Soluble: The Chloride matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-78642 and analytical batch 880-78705 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.

SB - 13 - 8' -9' (880-42364-13), SB - 13 - 10' -11' (880-42364-14), (880-42364-A-13-B MS) and (880-42364-A-13-C MSD)

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: Arcadis U.S., Inc.
Project/Site: WLU 72

Job ID: 880-42364-1
SDG: Lovington, NM

Client Sample ID: SB - 8 - 2' -3'

Lab Sample ID: 880-42364-1

Date Collected: 04/15/24 09:50

Matrix: Solid

Date Received: 04/17/24 13:00

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1440		25.0	1.97	mg/Kg			04/19/24 14:46	5

Client Sample ID: SB - 8 - 6' -7'

Lab Sample ID: 880-42364-2

Date Collected: 04/15/24 19:10

Matrix: Solid

Date Received: 04/17/24 13:00

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1070		5.00	0.395	mg/Kg			04/19/24 14:51	1

Client Sample ID: SB - 8 - 8' -9'

Lab Sample ID: 880-42364-3

Date Collected: 04/15/24 10:20

Matrix: Solid

Date Received: 04/17/24 13:00

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	576		4.98	0.393	mg/Kg			04/20/24 00:23	1

Client Sample ID: SB - 9 - 0 -1'

Lab Sample ID: 880-42364-4

Date Collected: 04/15/24 10:50

Matrix: Solid

Date Received: 04/17/24 13:00

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.87	J	4.98	0.393	mg/Kg			04/20/24 00:37	1

Client Sample ID: SB - 9 - 2' -3'

Lab Sample ID: 880-42364-5

Date Collected: 04/15/24 10:55

Matrix: Solid

Date Received: 04/17/24 13:00

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	68.9		4.95	0.391	mg/Kg			04/20/24 00:42	1

Client Sample ID: SB - 10 - 0 -1'

Lab Sample ID: 880-42364-6

Date Collected: 04/15/24 11:05

Matrix: Solid

Date Received: 04/17/24 13:00

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.82		4.98	0.393	mg/Kg			04/20/24 00:47	1

Client Sample ID: SB - 10 - 2' -3'

Lab Sample ID: 880-42364-7

Date Collected: 04/15/24 11:10

Matrix: Solid

Date Received: 04/17/24 13:00

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	190		4.96	0.392	mg/Kg			04/20/24 00:51	1

Eurofins Midland

Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 72

Job ID: 880-42364-1
SDG: Lovington, NM

Client Sample ID: SB - 11 - 0 -1'

Lab Sample ID: 880-42364-8

Date Collected: 04/15/24 11:35

Matrix: Solid

Date Received: 04/17/24 13:00

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	213		4.97	0.393	mg/Kg			04/20/24 01:06	1

Client Sample ID: SB - 11 - 2' -3'

Lab Sample ID: 880-42364-9

Date Collected: 04/15/24 11:40

Matrix: Solid

Date Received: 04/17/24 13:00

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	322		4.95	0.391	mg/Kg			04/20/24 01:11	1

Client Sample ID: SB - 12 - 0 -1'

Lab Sample ID: 880-42364-10

Date Collected: 04/15/24 12:40

Matrix: Solid

Date Received: 04/17/24 13:00

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	937		4.99	0.394	mg/Kg			04/20/24 01:16	1

Client Sample ID: SB - 12 - 2' -3'

Lab Sample ID: 880-42364-11

Date Collected: 04/15/24 12:50

Matrix: Solid

Date Received: 04/17/24 13:00

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	617		5.00	0.395	mg/Kg			04/20/24 01:21	1

Client Sample ID: SB - 13 - 4' -5'

Lab Sample ID: 880-42364-12

Date Collected: 04/15/24 13:40

Matrix: Solid

Date Received: 04/17/24 13:00

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1710		24.8	1.96	mg/Kg			04/20/24 01:25	5

Client Sample ID: SB - 13 - 8' -9'

Lab Sample ID: 880-42364-13

Date Collected: 04/15/24 14:20

Matrix: Solid

Date Received: 04/17/24 13:00

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1640	F1	24.8	1.96	mg/Kg			04/20/24 01:30	5

Client Sample ID: SB - 13 - 10' -11'

Lab Sample ID: 880-42364-14

Date Collected: 04/15/24 14:40

Matrix: Solid

Date Received: 04/17/24 13:00

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	345		4.97	0.393	mg/Kg			04/20/24 01:45	1

Eurofins Midland

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 72

Job ID: 880-42364-1
SDG: Lovington, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-78642/1-A

Matrix: Solid

Analysis Batch: 78705

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	5.00	0.395	mg/Kg			04/20/24 00:08	1

Lab Sample ID: LCS 880-78642/2-A

Matrix: Solid

Analysis Batch: 78705

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	254.3		mg/Kg		102	90 - 110

Lab Sample ID: LCSD 880-78642/3-A

Matrix: Solid

Analysis Batch: 78705

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	254.1		mg/Kg		102	90 - 110	0	20

Lab Sample ID: 880-42364-3 MS

Matrix: Solid

Analysis Batch: 78705

Client Sample ID: SB - 8 - 8' -9'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	576		249	826.0		mg/Kg		100	90 - 110

Lab Sample ID: 880-42364-3 MSD

Matrix: Solid

Analysis Batch: 78705

Client Sample ID: SB - 8 - 8' -9'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	576		249	825.0		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 880-42364-13 MS

Matrix: Solid

Analysis Batch: 78705

Client Sample ID: SB - 13 - 8' -9'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	1640	F1	1240	3130	F1	mg/Kg		120	90 - 110

Lab Sample ID: 880-42364-13 MSD

Matrix: Solid

Analysis Batch: 78705

Client Sample ID: SB - 13 - 8' -9'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1640	F1	1240	3118	F1	mg/Kg		119	90 - 110	0	20

Lab Sample ID: MB 880-78641/1-A

Matrix: Solid

Analysis Batch: 78710

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	5.00	0.395	mg/Kg			04/19/24 12:26	1

Eurofins Midland

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: WLU 72

Job ID: 880-42364-1
SDG: Lovington, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 880-78641/2-A					Client Sample ID: Lab Control Sample				
Matrix: Solid					Prep Type: Soluble				
Analysis Batch: 78710									
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	250	249.7		mg/Kg		100	90 - 110		

Lab Sample ID: LCSD 880-78641/3-A					Client Sample ID: Lab Control Sample Dup				
Matrix: Solid					Prep Type: Soluble				
Analysis Batch: 78710									
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	249.9		mg/Kg		100	90 - 110	0	20

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: WLU 72

Job ID: 880-42364-1
SDG: Lovington, NM

HPLC/IC

Leach Batch: 78641

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-42364-1	SB - 8 - 2' -3'	Soluble	Solid	DI Leach	
880-42364-2	SB - 8 - 6' -7'	Soluble	Solid	DI Leach	
MB 880-78641/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-78641/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-78641/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Leach Batch: 78642

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-42364-3	SB - 8 - 8' -9'	Soluble	Solid	DI Leach	
880-42364-4	SB - 9 - 0 -1'	Soluble	Solid	DI Leach	
880-42364-5	SB - 9 - 2' -3'	Soluble	Solid	DI Leach	
880-42364-6	SB - 10 - 0 -1'	Soluble	Solid	DI Leach	
880-42364-7	SB - 10 - 2' -3'	Soluble	Solid	DI Leach	
880-42364-8	SB - 11 - 0 -1'	Soluble	Solid	DI Leach	
880-42364-9	SB - 11 - 2' -3'	Soluble	Solid	DI Leach	
880-42364-10	SB - 12 - 0 -1'	Soluble	Solid	DI Leach	
880-42364-11	SB - 12 - 2' -3'	Soluble	Solid	DI Leach	
880-42364-12	SB - 13 - 4' -5'	Soluble	Solid	DI Leach	
880-42364-13	SB - 13 - 8' -9'	Soluble	Solid	DI Leach	
880-42364-14	SB - 13 - 10' -11'	Soluble	Solid	DI Leach	
MB 880-78642/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-78642/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-78642/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-42364-3 MS	SB - 8 - 8' -9'	Soluble	Solid	DI Leach	
880-42364-3 MSD	SB - 8 - 8' -9'	Soluble	Solid	DI Leach	
880-42364-13 MS	SB - 13 - 8' -9'	Soluble	Solid	DI Leach	
880-42364-13 MSD	SB - 13 - 8' -9'	Soluble	Solid	DI Leach	

Analysis Batch: 78705

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-42364-3	SB - 8 - 8' -9'	Soluble	Solid	300.0	78642
880-42364-4	SB - 9 - 0 -1'	Soluble	Solid	300.0	78642
880-42364-5	SB - 9 - 2' -3'	Soluble	Solid	300.0	78642
880-42364-6	SB - 10 - 0 -1'	Soluble	Solid	300.0	78642
880-42364-7	SB - 10 - 2' -3'	Soluble	Solid	300.0	78642
880-42364-8	SB - 11 - 0 -1'	Soluble	Solid	300.0	78642
880-42364-9	SB - 11 - 2' -3'	Soluble	Solid	300.0	78642
880-42364-10	SB - 12 - 0 -1'	Soluble	Solid	300.0	78642
880-42364-11	SB - 12 - 2' -3'	Soluble	Solid	300.0	78642
880-42364-12	SB - 13 - 4' -5'	Soluble	Solid	300.0	78642
880-42364-13	SB - 13 - 8' -9'	Soluble	Solid	300.0	78642
880-42364-14	SB - 13 - 10' -11'	Soluble	Solid	300.0	78642
MB 880-78642/1-A	Method Blank	Soluble	Solid	300.0	78642
LCS 880-78642/2-A	Lab Control Sample	Soluble	Solid	300.0	78642
LCSD 880-78642/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	78642
880-42364-3 MS	SB - 8 - 8' -9'	Soluble	Solid	300.0	78642
880-42364-3 MSD	SB - 8 - 8' -9'	Soluble	Solid	300.0	78642
880-42364-13 MS	SB - 13 - 8' -9'	Soluble	Solid	300.0	78642
880-42364-13 MSD	SB - 13 - 8' -9'	Soluble	Solid	300.0	78642

Eurofins Midland

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: WLU 72

Job ID: 880-42364-1
SDG: Lovington, NM

HPLC/IC

Analysis Batch: 78710

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-42364-1	SB - 8 - 2' -3'	Soluble	Solid	300.0	78641
880-42364-2	SB - 8 - 6' -7'	Soluble	Solid	300.0	78641
MB 880-78641/1-A	Method Blank	Soluble	Solid	300.0	78641
LCS 880-78641/2-A	Lab Control Sample	Soluble	Solid	300.0	78641
LCSD 880-78641/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	78641

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: WLU 72

Job ID: 880-42364-1
SDG: Lovington, NM

Client Sample ID: SB - 8 - 2' -3'

Lab Sample ID: 880-42364-1

Date Collected: 04/15/24 09:50

Matrix: Solid

Date Received: 04/17/24 13:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	78641	04/18/24 13:39	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	78710	04/19/24 14:46	SMC	EET MID

Client Sample ID: SB - 8 - 6' -7'

Lab Sample ID: 880-42364-2

Date Collected: 04/15/24 19:10

Matrix: Solid

Date Received: 04/17/24 13:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.00 g	50 mL	78641	04/18/24 13:39	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	78710	04/19/24 14:51	SMC	EET MID

Client Sample ID: SB - 8 - 8' -9'

Lab Sample ID: 880-42364-3

Date Collected: 04/15/24 10:20

Matrix: Solid

Date Received: 04/17/24 13:00

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	78642	04/18/24 13:41	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	78705	04/20/24 00:23	SMC	EET MID

Client Sample ID: SB - 9 - 0 -1'

Lab Sample ID: 880-42364-4

Date Collected: 04/15/24 10:50

Matrix: Solid

Date Received: 04/17/24 13:00

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	78642	04/18/24 13:41	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	78705	04/20/24 00:37	SMC	EET MID

Client Sample ID: SB - 9 - 2' -3'

Lab Sample ID: 880-42364-5

Date Collected: 04/15/24 10:55

Matrix: Solid

Date Received: 04/17/24 13:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	78642	04/18/24 13:41	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	78705	04/20/24 00:42	SMC	EET MID

Client Sample ID: SB - 10 - 0 -1'

Lab Sample ID: 880-42364-6

Date Collected: 04/15/24 11:05

Matrix: Solid

Date Received: 04/17/24 13:00

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	78642	04/18/24 13:41	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	78705	04/20/24 00:47	SMC	EET MID

Eurofins Midland

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: WLU 72

Job ID: 880-42364-1
SDG: Lovington, NM

Client Sample ID: SB - 10 - 2' -3'**Lab Sample ID: 880-42364-7****Date Collected: 04/15/24 11:10****Matrix: Solid****Date Received: 04/17/24 13:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	78642	04/18/24 13:41	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	78705	04/20/24 00:51	SMC	EET MID

Client Sample ID: SB - 11 - 0 -1'**Lab Sample ID: 880-42364-8****Date Collected: 04/15/24 11:35****Matrix: Solid****Date Received: 04/17/24 13:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	78642	04/18/24 13:41	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	78705	04/20/24 01:06	SMC	EET MID

Client Sample ID: SB - 11 - 2' -3'**Lab Sample ID: 880-42364-9****Date Collected: 04/15/24 11:40****Matrix: Solid****Date Received: 04/17/24 13:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	78642	04/18/24 13:41	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	78705	04/20/24 01:11	SMC	EET MID

Client Sample ID: SB - 12 - 0 -1'**Lab Sample ID: 880-42364-10****Date Collected: 04/15/24 12:40****Matrix: Solid****Date Received: 04/17/24 13:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	78642	04/18/24 13:41	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	78705	04/20/24 01:16	SMC	EET MID

Client Sample ID: SB - 12 - 2' -3'**Lab Sample ID: 880-42364-11****Date Collected: 04/15/24 12:50****Matrix: Solid****Date Received: 04/17/24 13:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.00 g	50 mL	78642	04/18/24 13:41	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	78705	04/20/24 01:21	SMC	EET MID

Client Sample ID: SB - 13 - 4' -5'**Lab Sample ID: 880-42364-12****Date Collected: 04/15/24 13:40****Matrix: Solid****Date Received: 04/17/24 13:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	78642	04/18/24 13:41	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	78705	04/20/24 01:25	SMC	EET MID

Eurofins Midland

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: WLU 72

Job ID: 880-42364-1
SDG: Lovington, NM

Client Sample ID: SB - 13 - 8' -9'
Date Collected: 04/15/24 14:20
Date Received: 04/17/24 13:00

Lab Sample ID: 880-42364-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	78642	04/18/24 13:41	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	78705	04/20/24 01:30	SMC	EET MID

Client Sample ID: SB - 13 - 10' -11'
Date Collected: 04/15/24 14:40
Date Received: 04/17/24 13:00

Lab Sample ID: 880-42364-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	78642	04/18/24 13:41	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	78705	04/20/24 01:45	SMC	EET MID

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

Accreditation/Certification Summary

Client: Arcadis U.S., Inc.
Project/Site: WLU 72

Job ID: 880-42364-1
SDG: Lovington, NM

Laboratory: Eurofins Midland

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

- 1
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- 12
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Method Summary

Client: Arcadis U.S., Inc.
Project/Site: WLU 72

Job ID: 880-42364-1
SDG: Lovington, NM

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	EPA	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

- Protocol References:**
- ASTM = ASTM International
 - EPA = US Environmental Protection Agency
- Laboratory References:**
- EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Arcadis U.S., Inc.
Project/Site: WLU 72

Job ID: 880-42364-1
SDG: Lovington, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-42364-1	SB - 8 - 2' -3'	Solid	04/15/24 09:50	04/17/24 13:00
880-42364-2	SB - 8 - 6' -7'	Solid	04/15/24 19:10	04/17/24 13:00
880-42364-3	SB - 8 - 8' -9'	Solid	04/15/24 10:20	04/17/24 13:00
880-42364-4	SB - 9 - 0 -1'	Solid	04/15/24 10:50	04/17/24 13:00
880-42364-5	SB - 9 - 2' -3'	Solid	04/15/24 10:55	04/17/24 13:00
880-42364-6	SB - 10 - 0 -1'	Solid	04/15/24 11:05	04/17/24 13:00
880-42364-7	SB - 10 - 2' -3'	Solid	04/15/24 11:10	04/17/24 13:00
880-42364-8	SB - 11 - 0 -1'	Solid	04/15/24 11:35	04/17/24 13:00
880-42364-9	SB - 11 - 2' -3'	Solid	04/15/24 11:40	04/17/24 13:00
880-42364-10	SB - 12 - 0 -1'	Solid	04/15/24 12:40	04/17/24 13:00
880-42364-11	SB - 12 - 2' -3'	Solid	04/15/24 12:50	04/17/24 13:00
880-42364-12	SB - 13 - 4' -5'	Solid	04/15/24 13:40	04/17/24 13:00
880-42364-13	SB - 13 - 8' -9'	Solid	04/15/24 14:20	04/17/24 13:00
880-42364-14	SB - 13 - 10' -11'	Solid	04/15/24 14:40	04/17/24 13:00





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



www.xenco.com		Page _____ of _____	
Work Order Comments			
Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>			
State of Project:			
Reporting: Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>			
Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other: _____			

Project Manager:	Morgan Jordan		Bill to: (if different)
Company Name:	Arcadis		Company Name:
Address:	1004 N Big Spring Suite 300		Address:
City, State ZIP:	Midland, TX 79701		City, State ZIP:
Phone:	281-644-9437	Email:	Douglas.Jordan@Arcadis.com

Project Name:		Turn Around		ANALYSIS REQUEST												Preservative Codes					
Project Number	Project Location	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Rush													None	NO				
Sampler's Name:	Due Date:															Cool: Cool	MeOH: Me				
PO #	TAT starts the day received by the lab, if received by 4:30pm															HCL: HC	HNO ₃ : HN				
SAMPLE RECEIPT Temp Blank: Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> Samples Received Intact: Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> Cooler Custody Seals: Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> Sample Custody Seals: Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> Total Containers:		Wet Ice: Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> Thermometer ID: <i>TR4</i> Correction Factor: <i>-0.1</i> Temperature Reading: <i>3.1</i> Corrected Temperature: <i>3.0</i>		Parameters												NaHSO ₄ : NABIS	H ₂ SO ₄ : H ₂				
				300.064FM-20D												Na ₂ S ₂ O ₃ : NaSO ₃	H ₃ PO ₄ : HP				
																Zn Acetate+NaOH: Zn					
																NaOH+Ascorbic Acid: SACP					
Sample Identification				Matrix	Date Sampled	Time Sampled	Depth	Gals/Comp	# of Cont	Sample Comments											
SB-8-2-3'				S	4/15/24	0950		67	1												
SB-8-6-7'						1010			1												
SB-8-8-9'						1020			1												
SB-9-0-1'						1050			1												
SB-9-2-3'						1055			1												
SB-10-0-1'						1105			1												
SB-10-2-3'						1110			1												
SB-11-0-1'						1135			1												
SB-11-2-3'						1140			1												
SB-12-0-1'				X	X	1240		X	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 Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed		TCLP / SPLP 6010 : 8RCRA	Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 	E Carrillo	4/15/24 1655	2 Esperanza C		4/17/24 1300
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2



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

Loc: 880

42364

Work Order No: 42

www.xenco.com Page 6 of 6

Project Manager: Morgan Jordan	Bill to: (if different)	Work Order Comments	
Company Name: Arcadis	Company Name:	Program: <input type="checkbox"/> UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>	
Address: 1004 N Big Spring Suite 300	Address:	State of Project:	
City, State ZIP: Midland, TX	City, State ZIP:	Reporting: Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Phone: 281-644-9437	Email:	Deliverables: EDO <input type="checkbox"/> ADaPT <input type="checkbox"/> Other	

SAMPLE RECEIPT		Turn Around		ANALYSIS REQUEST		Preservative Codes	
Project Name: WLU 72	Project Number: 30209673	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Rush	None	NO	DI Water	H ₂ O
Project Location: Lovington, NM	Sampler's Name: Heath Boyd	Date: 4/15/24	Time: 1250	Cool: Cool		MeOH: Me	
P.O. #		TAT starts the day received by the lab, if received by 4:30pm		HCL: HC		HNO ₃ : HN	
Samples Received Intact: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Temp Blank: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		H ₂ SO ₄ : H ₂		NaOH: Na	
Cooler Custody Seals: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Thermometer ID: 138	Correction Factor: 31		H ₃ PO ₄ : HP			
Sample Custody Seals: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Temperature Reading: 31	Corrected Temperature: 31		NaHSO ₄ : NABIS			
Total Containers: 3				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 SiO ₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed	TCLP / SPLP 6010 : 8RCRA	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, to analyze and/or sub-contractors. 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
<i>[Signature]</i>	<i>[Signature]</i>	4/15/24 1655

Revised Date: 08/25/210 Rev. 2020.2

Login Sample Receipt Checklist

Client: Arcadis U.S., Inc.

Job Number: 880-42364-1

SDG Number: Lovington, NM

Login Number: 42364

List Number: 1

Creator: Vasquez, Julisa

List Source: Eurofins Midland

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Justin Nixon
Arcadis US Inc.
1004 North Big Spring
Suite 300
Midland, Texas 79701
Generated 1/2/2025 2:59:46 PM

JOB DESCRIPTION

WCU 72

JOB NUMBER

890-7507-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

Eurofins Carlsbad

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
1/2/2025 2:59:46 PM

Authorized for release by
John Builes, Project Manager
John.Builes@et.eurofinsus.com
(561)558-4549

Client: Arcadis US Inc.
Project/Site: WCU 72

Laboratory Job ID: 890-7507-1

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Definitions/Glossary

Client: Arcadis US Inc.
Project/Site: WCU 72

Job ID: 890-7507-1

Qualifiers

GC VOA

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

GC Semi VOA

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

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: Arcadis US Inc.
Project: WCU 72

Job ID: 890-7507-1

Job ID: 890-7507-1

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Job Narrative 890-7507-1

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 12/20/2024 4:15 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 1.8°C.

GC VOA

Method 8021B: The matrix spike (MS) recoveries for preparation batch 880-98692 and analytical batch 880-98598 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: SB-15-1 (890-7507-2). Evidence of matrix interferences is not obvious.

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

Diesel Range Organics

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-99124/2-A) and (LCSD 880-99124/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-98962/2-A) and (LCSD 880-98962/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike (MS) recoveries for preparation batch 880-98962 and analytical batch 880-99128 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.

HPLC/IC

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

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: WCU 72

Job ID: 890-7507-1

Client Sample ID: SB-14-1

Lab Sample ID: 890-7507-1

Date Collected: 12/19/24 10:01

Matrix: Solid

Date Received: 12/20/24 16:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/23/24 13:46	12/24/24 08:56	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/23/24 13:46	12/24/24 08:56	1
Ethylbenzene	<0.00199	U F1	0.00199		mg/Kg		12/23/24 13:46	12/24/24 08:56	1
m-Xylene & p-Xylene	<0.00398	U F1	0.00398		mg/Kg		12/23/24 13:46	12/24/24 08:56	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/23/24 13:46	12/24/24 08:56	1
Xylenes, Total	<0.00398	U F1	0.00398		mg/Kg		12/23/24 13:46	12/24/24 08:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130				12/23/24 13:46	12/24/24 08:56	1
1,4-Difluorobenzene (Surr)	84		70 - 130				12/23/24 13:46	12/24/24 08:56	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/24/24 08:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/31/24 15:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/30/24 19:16	12/31/24 15:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/30/24 19:16	12/31/24 15:18	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/30/24 19:16	12/31/24 15:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130				12/30/24 19:16	12/31/24 15:18	1
o-Terphenyl	104		70 - 130				12/30/24 19:16	12/31/24 15:18	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	127		10.0		mg/Kg			12/30/24 12:48	1

Client Sample ID: SB-15-1

Lab Sample ID: 890-7507-2

Date Collected: 12/19/24 10:40

Matrix: Solid

Date Received: 12/20/24 16:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		12/23/24 13:46	12/24/24 09:16	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/23/24 13:46	12/24/24 09:16	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/23/24 13:46	12/24/24 09:16	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		12/23/24 13:46	12/24/24 09:16	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/23/24 13:46	12/24/24 09:16	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		12/23/24 13:46	12/24/24 09:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130				12/23/24 13:46	12/24/24 09:16	1
1,4-Difluorobenzene (Surr)	89		70 - 130				12/23/24 13:46	12/24/24 09:16	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: WCU 72

Job ID: 890-7507-1

Client Sample ID: SB-15-1

Lab Sample ID: 890-7507-2

Date Collected: 12/19/24 10:40

Matrix: Solid

Date Received: 12/20/24 16:15

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			12/24/24 09:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			12/31/24 20:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U F1	49.7		mg/Kg		12/27/24 13:55	12/31/24 20:51	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		12/27/24 13:55	12/31/24 20:51	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		12/27/24 13:55	12/31/24 20:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130				12/27/24 13:55	12/31/24 20:51	1
o-Terphenyl	127		70 - 130				12/27/24 13:55	12/31/24 20:51	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	128		9.92		mg/Kg			12/30/24 13:11	1

Client Sample ID: SB-16-1

Lab Sample ID: 890-7507-3

Date Collected: 12/19/24 11:30

Matrix: Solid

Date Received: 12/20/24 16:15

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		12/23/24 13:46	12/24/24 09:37	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/23/24 13:46	12/24/24 09:37	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/23/24 13:46	12/24/24 09:37	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/23/24 13:46	12/24/24 09:37	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/23/24 13:46	12/24/24 09:37	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/23/24 13:46	12/24/24 09:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130				12/23/24 13:46	12/24/24 09:37	1
1,4-Difluorobenzene (Surr)	93		70 - 130				12/23/24 13:46	12/24/24 09:37	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			12/24/24 09:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			12/31/24 21:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		12/27/24 13:55	12/31/24 21:52	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		12/27/24 13:55	12/31/24 21:52	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: WCU 72

Job ID: 890-7507-1

Client Sample ID: SB-16-1

Lab Sample ID: 890-7507-3

Date Collected: 12/19/24 11:30

Matrix: Solid

Date Received: 12/20/24 16:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		12/27/24 13:55	12/31/24 21:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130				12/27/24 13:55	12/31/24 21:52	1
o-Terphenyl	110		70 - 130				12/27/24 13:55	12/31/24 21:52	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	308		10.1		mg/Kg			12/30/24 13:19	1

Client Sample ID: SB-17-1

Lab Sample ID: 890-7507-4

Date Collected: 12/19/24 12:00

Matrix: Solid

Date Received: 12/20/24 16:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/23/24 13:46	12/24/24 09:57	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/23/24 13:46	12/24/24 09:57	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/23/24 13:46	12/24/24 09:57	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/23/24 13:46	12/24/24 09:57	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/23/24 13:46	12/24/24 09:57	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/23/24 13:46	12/24/24 09:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130				12/23/24 13:46	12/24/24 09:57	1
1,4-Difluorobenzene (Surr)	92		70 - 130				12/23/24 13:46	12/24/24 09:57	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/24/24 09:57	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			12/31/24 22:13	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	<49.8	U	49.8		mg/Kg		12/27/24 13:55	12/31/24 22:13	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/27/24 13:55	12/31/24 22:13	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/27/24 13:55	12/31/24 22:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130				12/27/24 13:55	12/31/24 22:13	1
o-Terphenyl	109		70 - 130				12/27/24 13:55	12/31/24 22:13	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	137		9.90		mg/Kg			12/30/24 13:27	1

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Surrogate Summary

Client: Arcadis US Inc.
Project/Site: WCU 72

Job ID: 890-7507-1

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)
890-7507-1	SB-14-1	120	84
890-7507-1 MS	SB-14-1	100	96
890-7507-1 MSD	SB-14-1	99	98
890-7507-2	SB-15-1	133 S1+	89
890-7507-3	SB-16-1	118	93
890-7507-4	SB-17-1	115	92
LCS 880-98692/1-A	Lab Control Sample	89	101
LCSD 880-98692/2-A	Lab Control Sample Dup	94	102
MB 880-98645/5-A	Method Blank	117	87
MB 880-98692/5-A	Method Blank	109	85
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)
890-7507-1	SB-14-1	96	104
890-7507-2	SB-15-1	101	127
890-7507-2 MS	SB-15-1	89	94
890-7507-2 MSD	SB-15-1	85	90
890-7507-3	SB-16-1	91	110
890-7507-4	SB-17-1	89	109
LCS 880-98962/2-A	Lab Control Sample	136 S1+	148 S1+
LCS 880-99124/2-A	Lab Control Sample	124	134 S1+
LCSD 880-98962/3-A	Lab Control Sample Dup	149 S1+	165 S1+
LCSD 880-99124/3-A	Lab Control Sample Dup	128	137 S1+
MB 880-98962/1-A	Method Blank	95	110
MB 880-99124/1-A	Method Blank	122	125
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: WCU 72

Job ID: 890-7507-1

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-98645/5-A

Matrix: Solid

Analysis Batch: 98598

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 98645

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/23/24 11:18	12/23/24 21:57	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/23/24 11:18	12/23/24 21:57	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/23/24 11:18	12/23/24 21:57	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/23/24 11:18	12/23/24 21:57	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/23/24 11:18	12/23/24 21:57	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/23/24 11:18	12/23/24 21:57	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	12/23/24 11:18	12/23/24 21:57	1
1,4-Difluorobenzene (Surr)	87		70 - 130	12/23/24 11:18	12/23/24 21:57	1

Lab Sample ID: MB 880-98692/5-A

Matrix: Solid

Analysis Batch: 98598

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 98692

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/23/24 13:46	12/24/24 08:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/23/24 13:46	12/24/24 08:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/23/24 13:46	12/24/24 08:34	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/23/24 13:46	12/24/24 08:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/23/24 13:46	12/24/24 08:34	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/23/24 13:46	12/24/24 08:34	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	12/23/24 13:46	12/24/24 08:34	1
1,4-Difluorobenzene (Surr)	85		70 - 130	12/23/24 13:46	12/24/24 08:34	1

Lab Sample ID: LCS 880-98692/1-A

Matrix: Solid

Analysis Batch: 98598

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 98692

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09816		mg/Kg		98	70 - 130
Toluene	0.100	0.08648		mg/Kg		86	70 - 130
Ethylbenzene	0.100	0.08520		mg/Kg		85	70 - 130
m-Xylene & p-Xylene	0.200	0.1668		mg/Kg		83	70 - 130
o-Xylene	0.100	0.08843		mg/Kg		88	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	89		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: LCSD 880-98692/2-A

Matrix: Solid

Analysis Batch: 98598

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 98692

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1048		mg/Kg		105	70 - 130	7	35

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: WCU 72

Job ID: 890-7507-1

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

Lab Sample ID: LCSD 880-98692/2-A

Matrix: Solid

Analysis Batch: 98598

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 98692

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits			
Toluene	0.100	0.09287		mg/Kg		93	70 - 130		7	35
Ethylbenzene	0.100	0.09428		mg/Kg		94	70 - 130		10	35
m-Xylene & p-Xylene	0.200	0.1845		mg/Kg		92	70 - 130		10	35
o-Xylene	0.100	0.09757		mg/Kg		98	70 - 130		10	35

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: 890-7507-1 MS

Matrix: Solid

Analysis Batch: 98598

Client Sample ID: SB-14-1

Prep Type: Total/NA

Prep Batch: 98692

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec	
									Limits	
Benzene	<0.00199	U	0.0996	0.08326		mg/Kg		84	70 - 130	
Toluene	<0.00199	U	0.0996	0.07126		mg/Kg		72	70 - 130	
Ethylbenzene	<0.00199	U F1	0.0996	0.06726	F1	mg/Kg		68	70 - 130	
m-Xylene & p-Xylene	<0.00398	U F1	0.199	0.1335	F1	mg/Kg		67	70 - 130	
o-Xylene	<0.00199	U	0.0996	0.07097		mg/Kg		71	70 - 130	

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

Lab Sample ID: 890-7507-1 MSD

Matrix: Solid

Analysis Batch: 98598

Client Sample ID: SB-14-1

Prep Type: Total/NA

Prep Batch: 98692

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
									Limits			
Benzene	<0.00199	U	0.101	0.09537		mg/Kg		95	70 - 130		14	35
Toluene	<0.00199	U	0.101	0.08196		mg/Kg		81	70 - 130		14	35
Ethylbenzene	<0.00199	U F1	0.101	0.07962		mg/Kg		79	70 - 130		17	35
m-Xylene & p-Xylene	<0.00398	U F1	0.202	0.1560		mg/Kg		77	70 - 130		16	35
o-Xylene	<0.00199	U	0.101	0.08096		mg/Kg		80	70 - 130		13	35

Surrogate	MSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

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

Lab Sample ID: MB 880-98962/1-A

Matrix: Solid

Analysis Batch: 99128

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 98962

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/27/24 13:55	12/31/24 19:49	1

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: WCU 72

Job ID: 890-7507-1

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

Lab Sample ID: MB 880-98962/1-A

Matrix: Solid

Analysis Batch: 99128

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 98962

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/27/24 13:55	12/31/24 19:49	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/27/24 13:55	12/31/24 19:49	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				12/27/24 13:55	12/31/24 19:49	1
o-Terphenyl	110		70 - 130				12/27/24 13:55	12/31/24 19:49	1

Lab Sample ID: LCS 880-98962/2-A

Matrix: Solid

Analysis Batch: 99128

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 98962

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	877.4		mg/Kg		88	70 - 130
Diesel Range Organics (Over C10-C28)	1000	953.8		mg/Kg		95	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	136	S1+	70 - 130				
o-Terphenyl	148	S1+	70 - 130				

Lab Sample ID: LCSD 880-98962/3-A

Matrix: Solid

Analysis Batch: 99128

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 98962

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	943.1		mg/Kg		94	70 - 130	7	20
Diesel Range Organics (Over C10-C28)	1000	1077		mg/Kg		108	70 - 130	12	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	149	S1+	70 - 130						
o-Terphenyl	165	S1+	70 - 130						

Lab Sample ID: 890-7507-2 MS

Matrix: Solid

Analysis Batch: 99128

Client Sample ID: SB-15-1

Prep Type: Total/NA

Prep Batch: 98962

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.7	U F1	993	730.9		mg/Kg		72	70 - 130
Diesel Range Organics (Over C10-C28)	<49.7	U	993	800.1		mg/Kg		81	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	89		70 - 130						
o-Terphenyl	94		70 - 130						

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: WCU 72

Job ID: 890-7507-1

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

Lab Sample ID: 890-7507-2 MSD

Matrix: Solid

Analysis Batch: 99128

Client Sample ID: SB-15-1

Prep Type: Total/NA

Prep Batch: 98962

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.7	U F1	993	699.1	F1	mg/Kg		69	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	<49.7	U	993	769.8		mg/Kg		78	70 - 130	4	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	85		70 - 130								
o-Terphenyl	90		70 - 130								

Lab Sample ID: MB 880-99124/1-A

Matrix: Solid

Analysis Batch: 99164

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 99124

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		12/30/24 19:16	12/31/24 08:42	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/30/24 19:16	12/31/24 08:42	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/30/24 19:16	12/31/24 08:42	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	122		70 - 130				12/30/24 19:16	12/31/24 08:42	1
o-Terphenyl	125		70 - 130				12/30/24 19:16	12/31/24 08:42	1

Lab Sample ID: LCS 880-99124/2-A

Matrix: Solid

Analysis Batch: 99164

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 99124

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	1137		mg/Kg		114	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	1198		mg/Kg		120	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
1-Chlorooctane	124		70 - 130						
o-Terphenyl	134	S1+	70 - 130						

Lab Sample ID: LCSD 880-99124/3-A

Matrix: Solid

Analysis Batch: 99164

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 99124

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1175		mg/Kg		117	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	1000	1190		mg/Kg		119	70 - 130	1	20

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: WCU 72

Job ID: 890-7507-1

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

Lab Sample ID: LCSD 880-99124/3-A
Matrix: Solid
Analysis Batch: 99164

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 99124

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane	128		70 - 130
o-Terphenyl	137	S1+	70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-98875/1-A
Matrix: Solid
Analysis Batch: 99025

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	<10.0	U	10.0		mg/Kg			12/30/24 10:03	1

Lab Sample ID: LCS 880-98875/2-A
Matrix: Solid
Analysis Batch: 99025

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	250	242.6		mg/Kg		97	90 - 110		

Lab Sample ID: LCSD 880-98875/3-A
Matrix: Solid
Analysis Batch: 99025

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	255.2		mg/Kg		102	90 - 110	5	20

QC Association Summary

Client: Arcadis US Inc.
Project/Site: WCU 72

Job ID: 890-7507-1

GC VOA

Analysis Batch: 98598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7507-1	SB-14-1	Total/NA	Solid	8021B	98692
890-7507-2	SB-15-1	Total/NA	Solid	8021B	98692
890-7507-3	SB-16-1	Total/NA	Solid	8021B	98692
890-7507-4	SB-17-1	Total/NA	Solid	8021B	98692
MB 880-98645/5-A	Method Blank	Total/NA	Solid	8021B	98645
MB 880-98692/5-A	Method Blank	Total/NA	Solid	8021B	98692
LCS 880-98692/1-A	Lab Control Sample	Total/NA	Solid	8021B	98692
LCSD 880-98692/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	98692
890-7507-1 MS	SB-14-1	Total/NA	Solid	8021B	98692
890-7507-1 MSD	SB-14-1	Total/NA	Solid	8021B	98692

Prep Batch: 98645

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-98645/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 98692

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7507-1	SB-14-1	Total/NA	Solid	5035	
890-7507-2	SB-15-1	Total/NA	Solid	5035	
890-7507-3	SB-16-1	Total/NA	Solid	5035	
890-7507-4	SB-17-1	Total/NA	Solid	5035	
MB 880-98692/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-98692/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-98692/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7507-1 MS	SB-14-1	Total/NA	Solid	5035	
890-7507-1 MSD	SB-14-1	Total/NA	Solid	5035	

Analysis Batch: 98828

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7507-1	SB-14-1	Total/NA	Solid	Total BTEX	
890-7507-2	SB-15-1	Total/NA	Solid	Total BTEX	
890-7507-3	SB-16-1	Total/NA	Solid	Total BTEX	
890-7507-4	SB-17-1	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 98962

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7507-2	SB-15-1	Total/NA	Solid	8015NM Prep	
890-7507-3	SB-16-1	Total/NA	Solid	8015NM Prep	
890-7507-4	SB-17-1	Total/NA	Solid	8015NM Prep	
MB 880-98962/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-98962/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-98962/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7507-2 MS	SB-15-1	Total/NA	Solid	8015NM Prep	
890-7507-2 MSD	SB-15-1	Total/NA	Solid	8015NM Prep	

Prep Batch: 99124

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7507-1	SB-14-1	Total/NA	Solid	8015NM Prep	
MB 880-99124/1-A	Method Blank	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Arcadis US Inc.
Project/Site: WCU 72

Job ID: 890-7507-1

GC Semi VOA (Continued)

Prep Batch: 99124 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-99124/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-99124/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 99128

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7507-2	SB-15-1	Total/NA	Solid	8015B NM	98962
890-7507-3	SB-16-1	Total/NA	Solid	8015B NM	98962
890-7507-4	SB-17-1	Total/NA	Solid	8015B NM	98962
MB 880-98962/1-A	Method Blank	Total/NA	Solid	8015B NM	98962
LCS 880-98962/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	98962
LCSD 880-98962/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	98962
890-7507-2 MS	SB-15-1	Total/NA	Solid	8015B NM	98962
890-7507-2 MSD	SB-15-1	Total/NA	Solid	8015B NM	98962

Analysis Batch: 99164

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7507-1	SB-14-1	Total/NA	Solid	8015B NM	99124
MB 880-99124/1-A	Method Blank	Total/NA	Solid	8015B NM	99124
LCS 880-99124/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	99124
LCSD 880-99124/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	99124

Analysis Batch: 99222

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7507-1	SB-14-1	Total/NA	Solid	8015 NM	
890-7507-2	SB-15-1	Total/NA	Solid	8015 NM	
890-7507-3	SB-16-1	Total/NA	Solid	8015 NM	
890-7507-4	SB-17-1	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 98875

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7507-1	SB-14-1	Soluble	Solid	DI Leach	
890-7507-2	SB-15-1	Soluble	Solid	DI Leach	
890-7507-3	SB-16-1	Soluble	Solid	DI Leach	
890-7507-4	SB-17-1	Soluble	Solid	DI Leach	
MB 880-98875/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-98875/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-98875/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 99025

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7507-1	SB-14-1	Soluble	Solid	300.0	98875
890-7507-2	SB-15-1	Soluble	Solid	300.0	98875
890-7507-3	SB-16-1	Soluble	Solid	300.0	98875
890-7507-4	SB-17-1	Soluble	Solid	300.0	98875
MB 880-98875/1-A	Method Blank	Soluble	Solid	300.0	98875
LCS 880-98875/2-A	Lab Control Sample	Soluble	Solid	300.0	98875
LCSD 880-98875/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	98875

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Lab Chronicle

Client: Arcadis US Inc.
Project/Site: WCU 72

Job ID: 890-7507-1

Client Sample ID: SB-14-1
Date Collected: 12/19/24 10:01
Date Received: 12/20/24 16:15

Lab Sample ID: 890-7507-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	98692	12/23/24 13:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98598	12/24/24 08:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98828	12/24/24 08:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			99222	12/31/24 15:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	99124	12/30/24 19:16	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99164	12/31/24 15:18	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	98875	12/26/24 16:05	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99025	12/30/24 12:48	CH	EET MID

Client Sample ID: SB-15-1
Date Collected: 12/19/24 10:40
Date Received: 12/20/24 16:15

Lab Sample ID: 890-7507-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	98692	12/23/24 13:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98598	12/24/24 09:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98828	12/24/24 09:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			99222	12/31/24 20:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	98962	12/27/24 13:55	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99128	12/31/24 20:51	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	98875	12/26/24 16:05	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99025	12/30/24 13:11	CH	EET MID

Client Sample ID: SB-16-1
Date Collected: 12/19/24 11:30
Date Received: 12/20/24 16:15

Lab Sample ID: 890-7507-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	98692	12/23/24 13:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98598	12/24/24 09:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98828	12/24/24 09:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			99222	12/31/24 21:52	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	98962	12/27/24 13:55	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99128	12/31/24 21:52	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	98875	12/26/24 16:05	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99025	12/30/24 13:19	CH	EET MID

Client Sample ID: SB-17-1
Date Collected: 12/19/24 12:00
Date Received: 12/20/24 16:15

Lab Sample ID: 890-7507-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	98692	12/23/24 13:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	98598	12/24/24 09:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			98828	12/24/24 09:57	SM	EET MID

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Lab Chronicle

Client: Arcadis US Inc.
Project/Site: WCU 72

Job ID: 890-7507-1

Client Sample ID: SB-17-1
Date Collected: 12/19/24 12:00
Date Received: 12/20/24 16:15

Lab Sample ID: 890-7507-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			99222	12/31/24 22:13	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	98962	12/27/24 13:55	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99128	12/31/24 22:13	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	98875	12/26/24 16:05	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99025	12/30/24 13:27	CH	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: Arcadis US Inc.
Project/Site: WCU 72

Job ID: 890-7507-1

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	06-30-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Arcadis US Inc.
Project/Site: WCU 72

Job ID: 890-7507-1

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: Arcadis US Inc.
Project/Site: WCU 72

Job ID: 890-7507-1

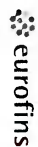
Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-7507-1	SB-14-1	Solid	12/19/24 10:01	12/20/24 16:15
890-7507-2	SB-15-1	Solid	12/19/24 10:40	12/20/24 16:15
890-7507-3	SB-16-1	Solid	12/19/24 11:30	12/20/24 16:15
890-7507-4	SB-17-1	Solid	12/19/24 12:00	12/20/24 16:15

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Eurofins Midland

1211 W. Florida Ave
Midland, TX 79701
Phone: 432-704-5440

Chain of Custody Record



Environment Testing

[illegible]

Eurofins Carlsbad

**1089 N Canal St.
Carlsbad, NM 88220
Phone: 575-988-3199 Fax: 575-988-3199**

Chain of Custody Record



Environment Testing

Client Information (Sub Contract Lab)						Sampler:		Lab PM:		COC No:																					
Client Contact:						N/A		Bullies, John		890-4447.1																					
Shipping/Receiving						Phone:		E-Mail:		Page:																					
Company:						N/A		John.Bullies@et.eurofins.com		Page 1 of 1																					
Eurofins Environment Testing South Cent						Accreditations Required (See note)		NE LAP - Texas		Job #:																					
Address:						Due Date Requested:		Analysis Requested		Preservation Codes:																					
1211 W. Florida Ave.						12/30/2024				890-7507-1																					
City:						TAT Requested (days):																									
Midland						N/A																									
State, Zip:																															
TX, 79701																															
Phone:						PO #:																									
432-704-5440(Tel)						N/A																									
Email:						WO #:																									
N/A						Project #:																									
Project Name:						89000100																									
WCU 72						SSOW#:																									
Site:						N/A																									
Other:																															
N/A																															
Sample Identification - Client ID (Lab ID)						Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (w-water, s-solid, o-overstabil.)		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		8021B/5035FP_Calc BTEX		Total_BTEX_GCV		8015MOD_NM/8015NM_S_Prep Full TPH		8015MOD_Calc		300_ORGFM_28D/DI_LEACH Chloride		Total Number of containers		Special Instructions/Note:	
SB-14-1 (890-7507-1)						12/19/24		10:01		G		Solid				X		X		X		X		X		1					
SB-15-1 (890-7507-2)						12/19/24		10:40		G		Solid				X		X		X		X		X		1					
SB-16-1 (890-7507-3)						12/19/24		11:30		G		Solid				X		X		X		X		X		1					
SB-17-1 (890-7507-4)						12/19/24		12:00		G		Solid				X		X		X		X		X		1					

Login Sample Receipt Checklist

Client: Arcadis US Inc.

Job Number: 890-7507-1

Login Number: 7507

List Source: Eurofins Carlsbad

List Number: 1

Creator: Lopez, Abraham

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
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.	N/A	Refer to Job Narrative for details.
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	

Login Sample Receipt Checklist

Client: Arcadis US Inc.

Job Number: 890-7507-1

Login Number: 7507

List Number: 2

Creator: Lee, Randell

List Source: Eurofins Midland

List Creation: 12/23/24 10:01 AM

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Justin Nixon
Arcadis US Inc.
1004 North Big Spring
Suite 300
Midland, Texas 79701

Generated 1/2/2025 3:01:22 PM

JOB DESCRIPTION

WLC 72

JOB NUMBER

890-7508-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

Eurofins Carlsbad

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
1/2/2025 3:01:22 PM

Authorized for release by
John Builes, Project Manager
John.Builes@et.eurofinsus.com
(561)558-4549

Client: Arcadis US Inc.
Project/Site: WLC 72

Laboratory Job ID: 890-7508-1

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Definitions/Glossary

Client: Arcadis US Inc.
Project/Site: WLC 72

Job ID: 890-7508-1

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, 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: Arcadis US Inc.
Project: WLC 72

Job ID: 890-7508-1

Job ID: 890-7508-1

Eurofins Carlsbad

Job Narrative 890-7508-1

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 12/20/2024 4:26 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.8°C.

GC VOA

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

Diesel Range Organics

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-98962/2-A) and (LCSD 880-98962/3-A). 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.

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: WLC 72

Job ID: 890-7508-1

Client Sample ID: T-1-1

Lab Sample ID: 890-7508-1

Date Collected: 12/20/24 09:00

Matrix: Solid

Date Received: 12/20/24 16:26

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		12/23/24 12:14	12/30/24 19:45	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/23/24 12:14	12/30/24 19:45	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/23/24 12:14	12/30/24 19:45	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/23/24 12:14	12/30/24 19:45	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/23/24 12:14	12/30/24 19:45	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/23/24 12:14	12/30/24 19:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130	12/23/24 12:14	12/30/24 19:45	1
1,4-Difluorobenzene (Surr)	95		70 - 130	12/23/24 12:14	12/30/24 19:45	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/30/24 19:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/31/24 22:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/27/24 13:55	12/31/24 22:33	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/27/24 13:55	12/31/24 22:33	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/27/24 13:55	12/31/24 22:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130	12/27/24 13:55	12/31/24 22:33	1
o-Terphenyl	106		70 - 130	12/27/24 13:55	12/31/24 22:33	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	116		9.90		mg/Kg			12/30/24 13:35	1

Client Sample ID: T-2-1

Lab Sample ID: 890-7508-2

Date Collected: 12/20/24 09:30

Matrix: Solid

Date Received: 12/20/24 16:26

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/23/24 12:14	12/30/24 20:06	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/23/24 12:14	12/30/24 20:06	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/23/24 12:14	12/30/24 20:06	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/23/24 12:14	12/30/24 20:06	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/23/24 12:14	12/30/24 20:06	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/23/24 12:14	12/30/24 20:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130	12/23/24 12:14	12/30/24 20:06	1
1,4-Difluorobenzene (Surr)	93		70 - 130	12/23/24 12:14	12/30/24 20:06	1

Eurofins Carlsbad

Client Sample Results

Client: Arcadis US Inc.
Project/Site: WLC 72

Job ID: 890-7508-1

Client Sample ID: T-2-1

Lab Sample ID: 890-7508-2

Date Collected: 12/20/24 09:30

Matrix: Solid

Date Received: 12/20/24 16:26

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/30/24 20:06	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			12/31/24 22:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		12/27/24 13:55	12/31/24 22:54	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/27/24 13:55	12/31/24 22:54	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/27/24 13:55	12/31/24 22:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130				12/27/24 13:55	12/31/24 22:54	1
o-Terphenyl	116		70 - 130				12/27/24 13:55	12/31/24 22:54	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	99.1		10.0		mg/Kg			12/30/24 13:43	1

Client Sample ID: T-3-1

Lab Sample ID: 890-7508-3

Date Collected: 12/20/24 10:00

Matrix: Solid

Date Received: 12/20/24 16:26

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		12/23/24 12:14	12/30/24 20:26	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/23/24 12:14	12/30/24 20:26	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/23/24 12:14	12/30/24 20:26	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/23/24 12:14	12/30/24 20:26	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/23/24 12:14	12/30/24 20:26	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/23/24 12:14	12/30/24 20:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130				12/23/24 12:14	12/30/24 20:26	1
1,4-Difluorobenzene (Surr)	92		70 - 130				12/23/24 12:14	12/30/24 20:26	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			12/30/24 20:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/31/24 23:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/27/24 13:55	12/31/24 23:14	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/27/24 13:55	12/31/24 23:14	1

Eurofins Carlsbad

Client Sample Results

Client: Arcadis US Inc.
Project/Site: WLC 72

Job ID: 890-7508-1

Client Sample ID: T-3-1

Lab Sample ID: 890-7508-3

Date Collected: 12/20/24 10:00

Matrix: Solid

Date Received: 12/20/24 16:26

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/27/24 13:55	12/31/24 23:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130				12/27/24 13:55	12/31/24 23:14	1
o-Terphenyl	113		70 - 130				12/27/24 13:55	12/31/24 23:14	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	289		10.0		mg/Kg			12/30/24 13:51	1

Client Sample ID: T-4-1

Lab Sample ID: 890-7508-4

Date Collected: 12/20/24 10:30

Matrix: Solid

Date Received: 12/20/24 16:26

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		12/23/24 12:14	12/30/24 20:47	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/23/24 12:14	12/30/24 20:47	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/23/24 12:14	12/30/24 20:47	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/23/24 12:14	12/30/24 20:47	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/23/24 12:14	12/30/24 20:47	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/23/24 12:14	12/30/24 20:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130				12/23/24 12:14	12/30/24 20:47	1
1,4-Difluorobenzene (Surr)	95		70 - 130				12/23/24 12:14	12/30/24 20:47	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			12/30/24 20:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/31/24 23:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/27/24 13:55	12/31/24 23:34	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/27/24 13:55	12/31/24 23:34	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/27/24 13:55	12/31/24 23:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130				12/27/24 13:55	12/31/24 23:34	1
o-Terphenyl	110		70 - 130				12/27/24 13:55	12/31/24 23:34	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	463		10.1		mg/Kg			12/30/24 13:59	1

Eurofins Carlsbad

Surrogate Summary

Client: Arcadis US Inc.
Project/Site: WLC 72

Job ID: 890-7508-1

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)
890-7508-1	T-1-1	84	95
890-7508-2	T-2-1	89	93
890-7508-3	T-3-1	86	92
890-7508-4	T-4-1	86	95
LCS 880-98687/1-A	Lab Control Sample	88	104
LCSD 880-98687/2-A	Lab Control Sample Dup	109	105
MB 880-98687/5-A	Method Blank	82	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)
890-7508-1	T-1-1	85	106
890-7508-2	T-2-1	98	116
890-7508-3	T-3-1	92	113
890-7508-4	T-4-1	88	110
LCS 880-98962/2-A	Lab Control Sample	136 S1+	148 S1+
LCSD 880-98962/3-A	Lab Control Sample Dup	149 S1+	165 S1+
MB 880-98962/1-A	Method Blank	95	110
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: WLC 72

Job ID: 890-7508-1

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-98687/5-A						Client Sample ID: Method Blank					
Matrix: Solid						Prep Type: Total/NA					
Analysis Batch: 99014						Prep Batch: 98687					
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared		Analyzed		Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/23/24 12:14	12/30/24 12:52			1
Toluene	<0.00200	U	0.00200		mg/Kg		12/23/24 12:14	12/30/24 12:52			1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/23/24 12:14	12/30/24 12:52			1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/23/24 12:14	12/30/24 12:52			1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/23/24 12:14	12/30/24 12:52			1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/23/24 12:14	12/30/24 12:52			1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared		Analyzed		Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 130				12/23/24 12:14	12/30/24 12:52			1
1,4-Difluorobenzene (Surr)	91		70 - 130				12/23/24 12:14	12/30/24 12:52			1

Lab Sample ID: LCS 880-98687/1-A					Client Sample ID: Lab Control Sample					
Matrix: Solid					Prep Type: Total/NA					
Analysis Batch: 99014					Prep Batch: 98687					
			Spike	LCS	LCS			%Rec		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene			0.101	0.1062		mg/Kg		106	70 - 130	
Toluene			0.101	0.1064		mg/Kg		106	70 - 130	
Ethylbenzene			0.101	0.09583		mg/Kg		95	70 - 130	
m-Xylene & p-Xylene			0.201	0.1877		mg/Kg		94	70 - 130	
o-Xylene			0.101	0.09051		mg/Kg		90	70 - 130	
			LCS	LCS						
Surrogate		%Recovery	Qualifier	Limits						
4-Bromofluorobenzene (Surr)		88		70 - 130						
1,4-Difluorobenzene (Surr)		104		70 - 130						

Lab Sample ID: LCSD 880-98687/2-A							Client Sample ID: Lab Control Sample Dup			
Matrix: Solid							Prep Type: Total/NA			
Analysis Batch: 99014							Prep Batch: 98687			
Analyte		Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene		0.101	0.1123		mg/Kg		112	70 - 130	6	35
Toluene		0.101	0.1113		mg/Kg		111	70 - 130	5	35
Ethylbenzene		0.101	0.1113		mg/Kg		111	70 - 130	15	35
m-Xylene & p-Xylene		0.201	0.2417		mg/Kg		121	70 - 130	25	35
o-Xylene		0.101	0.1170		mg/Kg		116	70 - 130	26	35
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits							
4-Bromofluorobenzene (Surr)	109		70 - 130							
1,4-Difluorobenzene (Surr)	105		70 - 130							

QC Sample Results

Client: Arcadis US Inc.
Project/Site: WLC 72

Job ID: 890-7508-1

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

Lab Sample ID: MB 880-98962/1-A
Matrix: Solid
Analysis Batch: 99128

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 98962

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		12/27/24 13:55	12/31/24 19:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/27/24 13:55	12/31/24 19:49	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/27/24 13:55	12/31/24 19:49	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				12/27/24 13:55	12/31/24 19:49	1
o-Terphenyl	110		70 - 130				12/27/24 13:55	12/31/24 19:49	1

Lab Sample ID: LCS 880-98962/2-A
Matrix: Solid
Analysis Batch: 99128

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 98962

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	877.4		mg/Kg		88	70 - 130
Diesel Range Organics (Over C10-C28)	1000	953.8		mg/Kg		95	70 - 130
Surrogate	%Recovery	LCS Qualifier	Limits				
1-Chlorooctane	136	S1+	70 - 130				
o-Terphenyl	148	S1+	70 - 130				

Lab Sample ID: LCSD 880-98962/3-A
Matrix: Solid
Analysis Batch: 99128

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 98962

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	943.1		mg/Kg		94	70 - 130	7	20
Diesel Range Organics (Over C10-C28)	1000	1077		mg/Kg		108	70 - 130	12	20
Surrogate	%Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	149	S1+	70 - 130						
o-Terphenyl	165	S1+	70 - 130						

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-98875/1-A
Matrix: Solid
Analysis Batch: 99025

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			12/30/24 10:03	1

QC Sample Results

Client: Arcadis US Inc.
Project/Site: WLC 72

Job ID: 890-7508-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-98875/2-A

Matrix: Solid

Analysis Batch: 99025

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	242.6		mg/Kg		97	90 - 110

Lab Sample ID: LCSD 880-98875/3-A

Matrix: Solid

Analysis Batch: 99025

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	255.2		mg/Kg		102	90 - 110	5	20

QC Association Summary

Client: Arcadis US Inc.
Project/Site: WLC 72

Job ID: 890-7508-1

GC VOA

Prep Batch: 98687

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7508-1	T-1-1	Total/NA	Solid	5035	
890-7508-2	T-2-1	Total/NA	Solid	5035	
890-7508-3	T-3-1	Total/NA	Solid	5035	
890-7508-4	T-4-1	Total/NA	Solid	5035	
MB 880-98687/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-98687/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-98687/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 99014

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7508-1	T-1-1	Total/NA	Solid	8021B	98687
890-7508-2	T-2-1	Total/NA	Solid	8021B	98687
890-7508-3	T-3-1	Total/NA	Solid	8021B	98687
890-7508-4	T-4-1	Total/NA	Solid	8021B	98687
MB 880-98687/5-A	Method Blank	Total/NA	Solid	8021B	98687
LCS 880-98687/1-A	Lab Control Sample	Total/NA	Solid	8021B	98687
LCSD 880-98687/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	98687

Analysis Batch: 99170

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7508-1	T-1-1	Total/NA	Solid	Total BTEX	
890-7508-2	T-2-1	Total/NA	Solid	Total BTEX	
890-7508-3	T-3-1	Total/NA	Solid	Total BTEX	
890-7508-4	T-4-1	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 98962

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7508-1	T-1-1	Total/NA	Solid	8015NM Prep	
890-7508-2	T-2-1	Total/NA	Solid	8015NM Prep	
890-7508-3	T-3-1	Total/NA	Solid	8015NM Prep	
890-7508-4	T-4-1	Total/NA	Solid	8015NM Prep	
MB 880-98962/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-98962/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-98962/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 99128

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7508-1	T-1-1	Total/NA	Solid	8015B NM	98962
890-7508-2	T-2-1	Total/NA	Solid	8015B NM	98962
890-7508-3	T-3-1	Total/NA	Solid	8015B NM	98962
890-7508-4	T-4-1	Total/NA	Solid	8015B NM	98962
MB 880-98962/1-A	Method Blank	Total/NA	Solid	8015B NM	98962
LCS 880-98962/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	98962
LCSD 880-98962/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	98962

Analysis Batch: 99341

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7508-1	T-1-1	Total/NA	Solid	8015 NM	
890-7508-2	T-2-1	Total/NA	Solid	8015 NM	

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QC Association Summary

Client: Arcadis US Inc.
Project/Site: WLC 72

Job ID: 890-7508-1

GC Semi VOA (Continued)

Analysis Batch: 99341 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7508-3	T-3-1	Total/NA	Solid	8015 NM	
890-7508-4	T-4-1	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 98875

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7508-1	T-1-1	Soluble	Solid	DI Leach	
890-7508-2	T-2-1	Soluble	Solid	DI Leach	
890-7508-3	T-3-1	Soluble	Solid	DI Leach	
890-7508-4	T-4-1	Soluble	Solid	DI Leach	
MB 880-98875/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-98875/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-98875/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 99025

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7508-1	T-1-1	Soluble	Solid	300.0	98875
890-7508-2	T-2-1	Soluble	Solid	300.0	98875
890-7508-3	T-3-1	Soluble	Solid	300.0	98875
890-7508-4	T-4-1	Soluble	Solid	300.0	98875
MB 880-98875/1-A	Method Blank	Soluble	Solid	300.0	98875
LCS 880-98875/2-A	Lab Control Sample	Soluble	Solid	300.0	98875
LCSD 880-98875/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	98875

Lab Chronicle

Client: Arcadis US Inc.
Project/Site: WLC 72

Job ID: 890-7508-1

Client Sample ID: T-1-1
Date Collected: 12/20/24 09:00
Date Received: 12/20/24 16:26

Lab Sample ID: 890-7508-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	98687	12/23/24 12:14	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99014	12/30/24 19:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99170	12/30/24 19:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			99341	12/31/24 22:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	98962	12/27/24 13:55	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99128	12/31/24 22:33	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	98875	12/26/24 16:05	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99025	12/30/24 13:35	CH	EET MID

Client Sample ID: T-2-1
Date Collected: 12/20/24 09:30
Date Received: 12/20/24 16:26

Lab Sample ID: 890-7508-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	98687	12/23/24 12:14	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99014	12/30/24 20:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99170	12/30/24 20:06	SM	EET MID
Total/NA	Analysis	8015 NM		1			99341	12/31/24 22:54	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	98962	12/27/24 13:55	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99128	12/31/24 22:54	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	98875	12/26/24 16:05	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99025	12/30/24 13:43	CH	EET MID

Client Sample ID: T-3-1
Date Collected: 12/20/24 10:00
Date Received: 12/20/24 16:26

Lab Sample ID: 890-7508-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	98687	12/23/24 12:14	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99014	12/30/24 20:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99170	12/30/24 20:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			99341	12/31/24 23:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	98962	12/27/24 13:55	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99128	12/31/24 23:14	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	98875	12/26/24 16:05	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99025	12/30/24 13:51	CH	EET MID

Client Sample ID: T-4-1
Date Collected: 12/20/24 10:30
Date Received: 12/20/24 16:26

Lab Sample ID: 890-7508-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	98687	12/23/24 12:14	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99014	12/30/24 20:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99170	12/30/24 20:47	SM	EET MID

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Lab Chronicle

Client: Arcadis US Inc.
Project/Site: WLC 72

Job ID: 890-7508-1

Client Sample ID: T-4-1
Date Collected: 12/20/24 10:30
Date Received: 12/20/24 16:26

Lab Sample ID: 890-7508-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			99341	12/31/24 23:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	98962	12/27/24 13:55	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99128	12/31/24 23:34	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	98875	12/26/24 16:05	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99025	12/30/24 13:59	CH	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: Arcadis US Inc.
Project/Site: WLC 72

Job ID: 890-7508-1

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	06-30-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Arcadis US Inc.
Project/Site: WLC 72

Job ID: 890-7508-1

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: Arcadis US Inc.
Project/Site: WLC 72

Job ID: 890-7508-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-7508-1	T-1-1	Solid	12/20/24 09:00	12/20/24 16:26
890-7508-2	T-2-1	Solid	12/20/24 09:30	12/20/24 16:26
890-7508-3	T-3-1	Solid	12/20/24 10:00	12/20/24 16:26
890-7508-4	T-4-1	Solid	12/20/24 10:30	12/20/24 16:26

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- 11
- 12
- 13
- 14


Eurofins Midland

1211 W. Florida Ave
Midland, TX 79701
Phone: 432-704-5440

Chain of Custody Record



Environment Testing

Client Information		Sampler: <u>Heath Boyd</u>		Lab PM: <u>Bulles, John</u>		Carrier Tracking No(s):		COC No: <u>880-10879-1579.4</u>													
Client Contact: <u>Mr. Morgan Jordan</u>		Phone: <u>575-942-0292</u>		E-Mail: <u>John.Bulles@eurofins.com</u>		State of Origin: <u>NM</u>		Page: <u>1061</u>													
Company: <u>ARCADIS US Inc</u>		Due Date Requested:		PMSID:		Analysis Requested		Job #:													
Address: <u>1004 North Big Spring Suite 300</u>		TAT Requested (days): <u>Standard</u>		Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Purchase Order Requested		Preservation Codes: <input type="checkbox"/> N - None													
City: <u>Midland</u>		State, Zip: <u>TX, 79701</u>		PO #:		MO #:		Other:													
Phone: <u>281-644-9437(Tel)</u>		Project Name: <u>WCU 72</u>		Project #: <u>88002020</u>		SSOW#: <u>30237098.0004</u>		Barcode: 													
Email: <u>douglas.jordan@arcadis.com</u>		Sample Identification		Sample Date		Sample Time		Sample Type (G=comp, G=grab)		Matrix (W=water, S=solid, O=overfill, BT=titrim, AA=AP)		Field Filtered Sample (Yes or No)		Permit MS/MSD (Yes or No)		300_ORGFM_28D, 8015MOD_NM, 8021B		Total Number of containers		Special Instructions/Note:	
		<u>T-1-1'</u>		<u>12/20/24</u>		<u>900</u>		<u>G</u>		<u>Solid</u>		<input checked="" type="checkbox"/> N		<input checked="" type="checkbox"/> Y							
		<u>T-2-1'</u>				<u>930</u>		<u>1</u>		<u>Solid</u>		<input checked="" type="checkbox"/> X		<input checked="" type="checkbox"/> Y							
		<u>T-3-1'</u>				<u>1000</u>		<u>1</u>		<u>Solid</u>		<input checked="" type="checkbox"/> Y		<input checked="" type="checkbox"/> Y							
		<u>T-4-1'</u>				<u>1030</u>		<u>X</u>		<u>Solid</u>		<input checked="" type="checkbox"/> X		<input checked="" type="checkbox"/> Y							
										<u>Solid</u>											
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Eurofine Carlebad

1089 N Canal St.
Carlsbad, NM 88220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record

7
1
4
2[illegible]

Login Sample Receipt Checklist

Client: Arcadis US Inc.

Job Number: 890-7508-1

Login Number: 7508

List Source: Eurofins Carlsbad

List Number: 1

Creator: Lopez, Abraham

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
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.	N/A	Refer to Job Narrative for details.
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	

Login Sample Receipt Checklist

Client: Arcadis US Inc.

Job Number: 890-7508-1

Login Number: 7508
List Number: 2
Creator: Lee, Randell

List Source: Eurofins Midland
List Creation: 12/23/24 10:01 AM

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	

Arcadis U.S., Inc.
1330 Post Oak Blvd., Suite 2250
Houston
Texas 77056
Phone: 713 953 4800
www.arcadis.com

Arcadis. Improving quality of life.

Appendix B

NMOCD Correspondence

From: Jordan, Morgan
Sent: Thursday, May 1, 2025 9:47 AM
To: Jordan, Morgan
Subject: FW: The Oil Conservation Division (OCD) has approved the application, Application ID: 420845

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Wednesday, January 22, 2025 4:05 PM
To: Brand, Chris <Chrisbrand@chevron.com>
Subject: [****EXTERNAL****] The Oil Conservation Division (OCD) has approved the application, Application ID: 420845

To whom it may concern (c/o Chris Brand for CHEVRON U S A INC),

The OCD has approved the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nTO1424541014, with the following conditions:

- **Remediation plan approved with conditions:**
- **Variance approved to collect confirmation base samples at a frequency of 400 ft², while confirmation sidewall samples should be collected every 200 ft².**
- **In addition to the proposed excavation, more delineation samples will need collected. Looking at historical Google Earth imagery taken on 2/13/2014, it looks as if the release flowed to the north and south of stuffing box location. OCD would like to see additional delineation samples to the south, east and southwest of SB-17, including one sample ~20 ft south of T-1. Due to this being a historical release, samples should be discrete and collected at surface, 1', 2', 3' and 4'.**
- **Submit remediation closure report to the OCD by 4/22/25.**

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

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

Thank you,
Shelly Wells
Environmental Specialist-A
505-469-7520
Shelly.Wells@emnrd.nm.gov

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

Appendix C

Laboratory Analytical Reports



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Morgan Jordan
Arcadis US Inc.
98 San Jacinto Blvd.
Suite 414
Austin, Texas 78701

Generated 3/26/2025 1:24:02 PM

JOB DESCRIPTION

WLU 72
Lea County NM

JOB NUMBER

880-55898-1

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
3/26/2025 1:24:02 PM

Authorized for release by
John Builes, Project Manager
John.Builes@et.eurofinsus.com
(561)558-4549

Client: Arcadis US Inc.
Project/Site: WLU 72

Laboratory Job ID: 880-55898-1
SDG: Lea County NM

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Definitions/Glossary

Client: Arcadis US Inc.
Project/Site: WLU 72

Job ID: 880-55898-1
SDG: Lea County NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low 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.
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

Case Narrative

Client: Arcadis US Inc.
Project: WLU 72

Job ID: 880-55898-1

Job ID: 880-55898-1

Eurofins Midland

Job Narrative 880-55898-1

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 3/21/2025 11:45 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.3°C.

GC VOA

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-105723 recovered above the upper control limit for Ethylbenzene and m-Xylene & p-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-105723/51).

Method 8021B: Surrogate recovery for the following samples were outside control limits: B-5 4' (880-55898-5) and B-11 4' (880-55898-11). 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: Surrogate recovery for the following sample was outside control limits: (LCSD 880-105788/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: B-1 4' (880-55898-1), B-2 4' (880-55898-2), B-5 4' (880-55898-5), B-6 4' (880-55898-6) and (880-55898-A-1-F MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-105788 and analytical batch 880-105738 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-105788/2-A). Evidence of matrix interferences is not obvious.

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

HPLC/IC

Method 300_ORGFM_28D - Soluble: The Chloride matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-105802 and analytical batch 880-105808 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

The associated samples are: B-1 4' (880-55898-1), B-2 4' (880-55898-2), B-3 4' (880-55898-3), B-4 4' (880-55898-4), B-5 4' (880-55898-5), B-6 4' (880-55898-6), B-7 4' (880-55898-7), B-8 4' (880-55898-8), B-9 4' (880-55898-9), B-10 4' (880-55898-10), (880-55898-A-1-H MS) and (880-55898-A-1-I MSD).

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: Arcadis US Inc.
Project/Site: WLU 72

Job ID: 880-55898-1
SDG: Lea County NM

Client Sample ID: B-1 4'

Lab Sample ID: 880-55898-1

Date Collected: 03/20/25 10:00

Matrix: Solid

Date Received: 03/21/25 11:45

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		03/21/25 15:27	03/21/25 22:46	1
Toluene	<0.00202	U	0.00202	0.00202	mg/Kg		03/21/25 15:27	03/21/25 22:46	1
Ethylbenzene	<0.00110	U	0.00202	0.00110	mg/Kg		03/21/25 15:27	03/21/25 22:46	1
m-Xylene & p-Xylene	<0.00231	U	0.00404	0.00231	mg/Kg		03/21/25 15:27	03/21/25 22:46	1
o-Xylene	<0.00160	U	0.00202	0.00160	mg/Kg		03/21/25 15:27	03/21/25 22:46	1
Xylenes, Total	<0.00231	U	0.00404	0.00231	mg/Kg		03/21/25 15:27	03/21/25 22:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				03/21/25 15:27	03/21/25 22:46	1
1,4-Difluorobenzene (Surr)	92		70 - 130				03/21/25 15:27	03/21/25 22:46	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			03/21/25 22:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	49.7	15.0	mg/Kg			03/21/25 17:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.4	U	49.7	14.4	mg/Kg		03/21/25 15:26	03/21/25 17:46	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.7	15.0	mg/Kg		03/21/25 15:26	03/21/25 17:46	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.7	15.0	mg/Kg		03/21/25 15:26	03/21/25 17:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	133	S1+	70 - 130				03/21/25 15:26	03/21/25 17:46	1
o-Terphenyl	127		70 - 130				03/21/25 15:26	03/21/25 17:46	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1830	F1	49.9	1.97	mg/Kg			03/22/25 00:38	5

Client Sample ID: B-2 4'

Lab Sample ID: 880-55898-2

Date Collected: 03/20/25 10:10

Matrix: Solid

Date Received: 03/21/25 11:45

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		03/21/25 15:27	03/21/25 23:06	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		03/21/25 15:27	03/21/25 23:06	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		03/21/25 15:27	03/21/25 23:06	1
m-Xylene & p-Xylene	<0.00227	U	0.00398	0.00227	mg/Kg		03/21/25 15:27	03/21/25 23:06	1
o-Xylene	<0.00157	U	0.00199	0.00157	mg/Kg		03/21/25 15:27	03/21/25 23:06	1
Xylenes, Total	<0.00227	U	0.00398	0.00227	mg/Kg		03/21/25 15:27	03/21/25 23:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				03/21/25 15:27	03/21/25 23:06	1
1,4-Difluorobenzene (Surr)	69	S1-	70 - 130				03/21/25 15:27	03/21/25 23:06	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: WLU 72

Job ID: 880-55898-1
SDG: Lea County NM

Client Sample ID: B-2 4'

Lab Sample ID: 880-55898-2

Date Collected: 03/20/25 10:10

Matrix: Solid

Date Received: 03/21/25 11:45

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			03/21/25 23:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	49.6	15.0	mg/Kg			03/21/25 18:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.4	U	49.6	14.4	mg/Kg		03/21/25 15:26	03/21/25 18:36	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.6	15.0	mg/Kg		03/21/25 15:26	03/21/25 18:36	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.6	15.0	mg/Kg		03/21/25 15:26	03/21/25 18:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	134	S1+	70 - 130				03/21/25 15:26	03/21/25 18:36	1
o-Terphenyl	128		70 - 130				03/21/25 15:26	03/21/25 18:36	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1150		9.92	0.392	mg/Kg			03/22/25 00:55	1

Client Sample ID: B-3 4'

Lab Sample ID: 880-55898-3

Date Collected: 03/20/25 10:20

Matrix: Solid

Date Received: 03/21/25 11:45

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		03/21/25 15:27	03/21/25 23:27	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		03/21/25 15:27	03/21/25 23:27	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		03/21/25 15:27	03/21/25 23:27	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		03/21/25 15:27	03/21/25 23:27	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		03/21/25 15:27	03/21/25 23:27	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg		03/21/25 15:27	03/21/25 23:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				03/21/25 15:27	03/21/25 23:27	1
1,4-Difluorobenzene (Surr)	74		70 - 130				03/21/25 15:27	03/21/25 23:27	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			03/21/25 23:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	49.8	15.1	mg/Kg			03/21/25 18:52	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		03/21/25 15:26	03/21/25 18:52	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.8	15.1	mg/Kg		03/21/25 15:26	03/21/25 18:52	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: WLU 72

Job ID: 880-55898-1
SDG: Lea County NM

Client Sample ID: B-3 4'

Lab Sample ID: 880-55898-3

Date Collected: 03/20/25 10:20

Matrix: Solid

Date Received: 03/21/25 11:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		03/21/25 15:26	03/21/25 18:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	125		70 - 130				03/21/25 15:26	03/21/25 18:52	1
o-Terphenyl	117		70 - 130				03/21/25 15:26	03/21/25 18:52	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	526		10.1	0.398	mg/Kg			03/22/25 01:01	1

Client Sample ID: B-4 4'

Lab Sample ID: 880-55898-4

Date Collected: 03/20/25 10:30

Matrix: Solid

Date Received: 03/21/25 11:45

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		03/21/25 15:27	03/21/25 23:47	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		03/21/25 15:27	03/21/25 23:47	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		03/21/25 15:27	03/21/25 23:47	1
m-Xylene & p-Xylene	<0.00229	U	0.00401	0.00229	mg/Kg		03/21/25 15:27	03/21/25 23:47	1
o-Xylene	<0.00159	U	0.00200	0.00159	mg/Kg		03/21/25 15:27	03/21/25 23:47	1
Xylenes, Total	<0.00229	U	0.00401	0.00229	mg/Kg		03/21/25 15:27	03/21/25 23:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130				03/21/25 15:27	03/21/25 23:47	1
1,4-Difluorobenzene (Surr)	91		70 - 130				03/21/25 15:27	03/21/25 23:47	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00401	0.00229	mg/Kg			03/21/25 23:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	49.9	15.1	mg/Kg			03/21/25 19:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.9	14.5	mg/Kg		03/21/25 15:26	03/21/25 19:09	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.9	15.1	mg/Kg		03/21/25 15:26	03/21/25 19:09	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		03/21/25 15:26	03/21/25 19:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	127		70 - 130				03/21/25 15:26	03/21/25 19:09	1
o-Terphenyl	119		70 - 130				03/21/25 15:26	03/21/25 19:09	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	772		9.96	0.393	mg/Kg			03/22/25 01:07	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: WLU 72

Job ID: 880-55898-1
SDG: Lea County NM

Client Sample ID: B-5 4'

Lab Sample ID: 880-55898-5

Date Collected: 03/20/25 10:40

Matrix: Solid

Date Received: 03/21/25 11:45

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		03/21/25 15:27	03/22/25 00:08	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		03/21/25 15:27	03/22/25 00:08	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		03/21/25 15:27	03/22/25 00:08	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		03/21/25 15:27	03/22/25 00:08	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		03/21/25 15:27	03/22/25 00:08	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg		03/21/25 15:27	03/22/25 00:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	03/21/25 15:27	03/22/25 00:08	1
1,4-Difluorobenzene (Surr)	69	S1-	70 - 130	03/21/25 15:27	03/22/25 00:08	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00399	0.00228	mg/Kg			03/22/25 00:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	49.6	15.0	mg/Kg			03/21/25 19:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.4	U	49.6	14.4	mg/Kg		03/21/25 15:26	03/21/25 19:25	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.6	15.0	mg/Kg		03/21/25 15:26	03/21/25 19:25	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.6	15.0	mg/Kg		03/21/25 15:26	03/21/25 19:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	133	S1+	70 - 130	03/21/25 15:26	03/21/25 19:25	1
o-Terphenyl	115		70 - 130	03/21/25 15:26	03/21/25 19:25	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1810		49.6	1.96	mg/Kg			03/22/25 01:13	5

Client Sample ID: B-6 4'

Lab Sample ID: 880-55898-6

Date Collected: 03/20/25 10:50

Matrix: Solid

Date Received: 03/21/25 11:45

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		03/21/25 15:27	03/22/25 00:29	1
Toluene	<0.00198	U	0.00198	0.00198	mg/Kg		03/21/25 15:27	03/22/25 00:29	1
Ethylbenzene	<0.00108	U	0.00198	0.00108	mg/Kg		03/21/25 15:27	03/22/25 00:29	1
m-Xylene & p-Xylene	<0.00226	U	0.00396	0.00226	mg/Kg		03/21/25 15:27	03/22/25 00:29	1
o-Xylene	<0.00157	U	0.00198	0.00157	mg/Kg		03/21/25 15:27	03/22/25 00:29	1
Xylenes, Total	<0.00226	U	0.00396	0.00226	mg/Kg		03/21/25 15:27	03/22/25 00:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	03/21/25 15:27	03/22/25 00:29	1
1,4-Difluorobenzene (Surr)	81		70 - 130	03/21/25 15:27	03/22/25 00:29	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: WLU 72

Job ID: 880-55898-1
SDG: Lea County NM

Client Sample ID: B-6 4'

Lab Sample ID: 880-55898-6

Date Collected: 03/20/25 10:50

Matrix: Solid

Date Received: 03/21/25 11:45

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			03/22/25 00:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	49.7	15.0	mg/Kg			03/21/25 19:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.4	U	49.7	14.4	mg/Kg		03/21/25 15:26	03/21/25 19:41	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.7	15.0	mg/Kg		03/21/25 15:26	03/21/25 19:41	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.7	15.0	mg/Kg		03/21/25 15:26	03/21/25 19:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	132	S1+	70 - 130				03/21/25 15:26	03/21/25 19:41	1
o-Terphenyl	124		70 - 130				03/21/25 15:26	03/21/25 19:41	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1130		10.1	0.398	mg/Kg			03/22/25 01:30	1

Client Sample ID: B-7 4'

Lab Sample ID: 880-55898-7

Date Collected: 03/20/25 11:00

Matrix: Solid

Date Received: 03/21/25 11:45

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		03/21/25 15:27	03/22/25 00:49	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		03/21/25 15:27	03/22/25 00:49	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		03/21/25 15:27	03/22/25 00:49	1
m-Xylene & p-Xylene	<0.00227	U	0.00398	0.00227	mg/Kg		03/21/25 15:27	03/22/25 00:49	1
o-Xylene	<0.00157	U	0.00199	0.00157	mg/Kg		03/21/25 15:27	03/22/25 00:49	1
Xylenes, Total	<0.00227	U	0.00398	0.00227	mg/Kg		03/21/25 15:27	03/22/25 00:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130				03/21/25 15:27	03/22/25 00:49	1
1,4-Difluorobenzene (Surr)	92		70 - 130				03/21/25 15:27	03/22/25 00:49	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00227	U	0.00398	0.00227	mg/Kg			03/22/25 00:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	49.7	15.0	mg/Kg			03/21/25 19:57	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	<14.4	U	49.7	14.4	mg/Kg		03/21/25 15:26	03/21/25 19:57	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.7	15.0	mg/Kg		03/21/25 15:26	03/21/25 19:57	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: WLU 72

Job ID: 880-55898-1
SDG: Lea County NM

Client Sample ID: B-7 4'

Lab Sample ID: 880-55898-7

Date Collected: 03/20/25 11:00

Matrix: Solid

Date Received: 03/21/25 11:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<15.0	U	49.7	15.0	mg/Kg		03/21/25 15:26	03/21/25 19:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	125		70 - 130				03/21/25 15:26	03/21/25 19:57	1
o-Terphenyl	114		70 - 130				03/21/25 15:26	03/21/25 19:57	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1020		9.96	0.393	mg/Kg			03/22/25 01:35	1

Client Sample ID: B-8 4'

Lab Sample ID: 880-55898-8

Date Collected: 03/20/25 11:10

Matrix: Solid

Date Received: 03/21/25 11:45

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		03/21/25 15:27	03/22/25 01:10	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		03/21/25 15:27	03/22/25 01:10	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		03/21/25 15:27	03/22/25 01:10	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		03/21/25 15:27	03/22/25 01:10	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		03/21/25 15:27	03/22/25 01:10	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		03/21/25 15:27	03/22/25 01:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				03/21/25 15:27	03/22/25 01:10	1
1,4-Difluorobenzene (Surr)	71		70 - 130				03/21/25 15:27	03/22/25 01:10	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00400	0.00229	mg/Kg			03/22/25 01:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	49.8	15.1	mg/Kg			03/21/25 20:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.8	14.5	mg/Kg		03/21/25 15:26	03/21/25 20:14	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.8	15.1	mg/Kg		03/21/25 15:26	03/21/25 20:14	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		03/21/25 15:26	03/21/25 20:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130				03/21/25 15:26	03/21/25 20:14	1
o-Terphenyl	121		70 - 130				03/21/25 15:26	03/21/25 20:14	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	236		9.94	0.393	mg/Kg			03/22/25 01:41	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: WLU 72

Job ID: 880-55898-1
SDG: Lea County NM

Client Sample ID: B-9 4'

Lab Sample ID: 880-55898-9

Date Collected: 03/20/25 11:20

Matrix: Solid

Date Received: 03/21/25 11:45

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		03/21/25 15:27	03/22/25 01:30	1
Toluene	<0.00201	U	0.00201	0.00201	mg/Kg		03/21/25 15:27	03/22/25 01:30	1
Ethylbenzene	<0.00110	U	0.00201	0.00110	mg/Kg		03/21/25 15:27	03/22/25 01:30	1
m-Xylene & p-Xylene	<0.00230	U	0.00402	0.00230	mg/Kg		03/21/25 15:27	03/22/25 01:30	1
o-Xylene	<0.00159	U	0.00201	0.00159	mg/Kg		03/21/25 15:27	03/22/25 01:30	1
Xylenes, Total	<0.00230	U	0.00402	0.00230	mg/Kg		03/21/25 15:27	03/22/25 01:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130				03/21/25 15:27	03/22/25 01:30	1
1,4-Difluorobenzene (Surr)	75		70 - 130				03/21/25 15:27	03/22/25 01:30	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00230	U	0.00402	0.00230	mg/Kg			03/22/25 01:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	49.9	15.1	mg/Kg			03/21/25 20:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.9	14.5	mg/Kg		03/21/25 15:26	03/21/25 20:30	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.9	15.1	mg/Kg		03/21/25 15:26	03/21/25 20:30	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		03/21/25 15:26	03/21/25 20:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130				03/21/25 15:26	03/21/25 20:30	1
o-Terphenyl	111		70 - 130				03/21/25 15:26	03/21/25 20:30	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	269		9.98	0.394	mg/Kg			03/22/25 01:47	1

Client Sample ID: B-10 4'

Lab Sample ID: 880-55898-10

Date Collected: 03/20/25 11:30

Matrix: Solid

Date Received: 03/21/25 11:45

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		03/21/25 15:27	03/22/25 01:51	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		03/21/25 15:27	03/22/25 01:51	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		03/21/25 15:27	03/22/25 01:51	1
m-Xylene & p-Xylene	<0.00229	U	0.00401	0.00229	mg/Kg		03/21/25 15:27	03/22/25 01:51	1
o-Xylene	<0.00159	U	0.00200	0.00159	mg/Kg		03/21/25 15:27	03/22/25 01:51	1
Xylenes, Total	<0.00229	U	0.00401	0.00229	mg/Kg		03/21/25 15:27	03/22/25 01:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130				03/21/25 15:27	03/22/25 01:51	1
1,4-Difluorobenzene (Surr)	82		70 - 130				03/21/25 15:27	03/22/25 01:51	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: WLU 72

Job ID: 880-55898-1
SDG: Lea County NM

Client Sample ID: B-10 4'

Lab Sample ID: 880-55898-10

Date Collected: 03/20/25 11:30

Matrix: Solid

Date Received: 03/21/25 11:45

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00401	0.00229	mg/Kg			03/22/25 01:51	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			03/21/25 20:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		03/21/25 15:26	03/21/25 20:46	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		03/21/25 15:26	03/21/25 20:46	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		03/21/25 15:26	03/21/25 20:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	128		70 - 130				03/21/25 15:26	03/21/25 20:46	1
o-Terphenyl	125		70 - 130				03/21/25 15:26	03/21/25 20:46	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	189		10.0	0.395	mg/Kg			03/22/25 01:53	1

Client Sample ID: B-11 4'

Lab Sample ID: 880-55898-11

Date Collected: 03/20/25 11:40

Matrix: Solid

Date Received: 03/21/25 11:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00199	0.00139	mg/Kg		03/21/25 15:27	03/22/25 03:14	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		03/21/25 15:27	03/22/25 03:14	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		03/21/25 15:27	03/22/25 03:14	1
m-Xylene & p-Xylene	<0.00228	U	0.00398	0.00228	mg/Kg		03/21/25 15:27	03/22/25 03:14	1
o-Xylene	<0.00158	U	0.00199	0.00158	mg/Kg		03/21/25 15:27	03/22/25 03:14	1
Xylenes, Total	<0.00228	U	0.00398	0.00228	mg/Kg		03/21/25 15:27	03/22/25 03:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				03/21/25 15:27	03/22/25 03:14	1
1,4-Difluorobenzene (Surr)	66	S1-	70 - 130				03/21/25 15:27	03/22/25 03:14	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00398	0.00228	mg/Kg			03/22/25 03:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	49.6	15.0	mg/Kg			03/21/25 21:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.4	U	49.6	14.4	mg/Kg		03/21/25 15:26	03/21/25 21:19	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.6	15.0	mg/Kg		03/21/25 15:26	03/21/25 21:19	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: WLU 72

Job ID: 880-55898-1
SDG: Lea County NM

Client Sample ID: B-11 4'

Lab Sample ID: 880-55898-11

Date Collected: 03/20/25 11:40

Matrix: Solid

Date Received: 03/21/25 11:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<15.0	U	49.6	15.0	mg/Kg		03/21/25 15:26	03/21/25 21:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	126		70 - 130				03/21/25 15:26	03/21/25 21:19	1
o-Terphenyl	117		70 - 130				03/21/25 15:26	03/21/25 21:19	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	417		9.90	0.391	mg/Kg			03/22/25 01:58	1

Client Sample ID: B-12 4'

Lab Sample ID: 880-55898-12

Date Collected: 03/20/25 11:50

Matrix: Solid

Date Received: 03/21/25 11:45

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		03/21/25 15:27	03/22/25 03:35	1
Toluene	<0.00198	U	0.00198	0.00198	mg/Kg		03/21/25 15:27	03/22/25 03:35	1
Ethylbenzene	<0.00108	U	0.00198	0.00108	mg/Kg		03/21/25 15:27	03/22/25 03:35	1
m-Xylene & p-Xylene	<0.00226	U	0.00396	0.00226	mg/Kg		03/21/25 15:27	03/22/25 03:35	1
o-Xylene	<0.00157	U	0.00198	0.00157	mg/Kg		03/21/25 15:27	03/22/25 03:35	1
Xylenes, Total	<0.00226	U	0.00396	0.00226	mg/Kg		03/21/25 15:27	03/22/25 03:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130				03/21/25 15:27	03/22/25 03:35	1
1,4-Difluorobenzene (Surr)	82		70 - 130				03/21/25 15:27	03/22/25 03:35	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			03/22/25 03:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	50.0	15.1	mg/Kg			03/21/25 21:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		03/21/25 15:26	03/21/25 21:34	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		03/21/25 15:26	03/21/25 21:34	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		03/21/25 15:26	03/21/25 21:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	128		70 - 130				03/21/25 15:26	03/21/25 21:34	1
o-Terphenyl	123		70 - 130				03/21/25 15:26	03/21/25 21:34	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	462		9.96	0.393	mg/Kg			03/22/25 02:16	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: WLU 72

Job ID: 880-55898-1
SDG: Lea County NM

Client Sample ID: B-13 4'

Lab Sample ID: 880-55898-13

Date Collected: 03/20/25 12:00

Matrix: Solid

Date Received: 03/21/25 11:45

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		03/21/25 15:27	03/22/25 03:55	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		03/21/25 15:27	03/22/25 03:55	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		03/21/25 15:27	03/22/25 03:55	1
m-Xylene & p-Xylene	<0.00227	U	0.00398	0.00227	mg/Kg		03/21/25 15:27	03/22/25 03:55	1
o-Xylene	<0.00157	U	0.00199	0.00157	mg/Kg		03/21/25 15:27	03/22/25 03:55	1
Xylenes, Total	<0.00227	U	0.00398	0.00227	mg/Kg		03/21/25 15:27	03/22/25 03:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	03/21/25 15:27	03/22/25 03:55	1
1,4-Difluorobenzene (Surr)	89		70 - 130	03/21/25 15:27	03/22/25 03:55	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			03/22/25 03:55	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			03/21/25 21:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.8	14.5	mg/Kg		03/21/25 15:26	03/21/25 21:51	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.8	15.1	mg/Kg		03/21/25 15:26	03/21/25 21:51	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		03/21/25 15:26	03/21/25 21:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	122		70 - 130	03/21/25 15:26	03/21/25 21:51	1
o-Terphenyl	113		70 - 130	03/21/25 15:26	03/21/25 21:51	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2070		49.7	1.96	mg/Kg			03/22/25 02:21	5

Client Sample ID: B-14 4'

Lab Sample ID: 880-55898-14

Date Collected: 03/20/25 12:10

Matrix: Solid

Date Received: 03/21/25 11:45

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		03/21/25 15:27	03/22/25 04:16	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		03/21/25 15:27	03/22/25 04:16	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		03/21/25 15:27	03/22/25 04:16	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		03/21/25 15:27	03/22/25 04:16	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		03/21/25 15:27	03/22/25 04:16	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg		03/21/25 15:27	03/22/25 04:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	03/21/25 15:27	03/22/25 04:16	1
1,4-Difluorobenzene (Surr)	95		70 - 130	03/21/25 15:27	03/22/25 04:16	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: WLU 72

Job ID: 880-55898-1
SDG: Lea County NM

Client Sample ID: B-14 4'

Lab Sample ID: 880-55898-14

Date Collected: 03/20/25 12:10

Matrix: Solid

Date Received: 03/21/25 11:45

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			03/22/25 04:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	49.6	15.0	mg/Kg			03/21/25 22:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.4	U	49.6	14.4	mg/Kg		03/21/25 15:26	03/21/25 22:07	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.6	15.0	mg/Kg		03/21/25 15:26	03/21/25 22:07	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.6	15.0	mg/Kg		03/21/25 15:26	03/21/25 22:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 130				03/21/25 15:26	03/21/25 22:07	1
o-Terphenyl	108		70 - 130				03/21/25 15:26	03/21/25 22:07	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1960		50.0	1.98	mg/Kg			03/22/25 02:39	5

Client Sample ID: B-15 4'

Lab Sample ID: 880-55898-15

Date Collected: 03/20/25 12:20

Matrix: Solid

Date Received: 03/21/25 11:45

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		03/21/25 15:27	03/22/25 04:36	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		03/21/25 15:27	03/22/25 04:36	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		03/21/25 15:27	03/22/25 04:36	1
m-Xylene & p-Xylene	<0.00229	U	0.00401	0.00229	mg/Kg		03/21/25 15:27	03/22/25 04:36	1
o-Xylene	<0.00159	U	0.00200	0.00159	mg/Kg		03/21/25 15:27	03/22/25 04:36	1
Xylenes, Total	<0.00229	U	0.00401	0.00229	mg/Kg		03/21/25 15:27	03/22/25 04:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				03/21/25 15:27	03/22/25 04:36	1
1,4-Difluorobenzene (Surr)	93		70 - 130				03/21/25 15:27	03/22/25 04:36	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00401	0.00229	mg/Kg			03/22/25 04:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	49.7	15.0	mg/Kg			03/21/25 22:24	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	<14.4	U	49.7	14.4	mg/Kg		03/21/25 15:26	03/21/25 22:24	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.7	15.0	mg/Kg		03/21/25 15:26	03/21/25 22:24	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: WLU 72

Job ID: 880-55898-1
SDG: Lea County NM

Client Sample ID: B-15 4'

Lab Sample ID: 880-55898-15

Date Collected: 03/20/25 12:20

Matrix: Solid

Date Received: 03/21/25 11:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<15.0	U	49.7	15.0	mg/Kg		03/21/25 15:26	03/21/25 22:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	126		70 - 130				03/21/25 15:26	03/21/25 22:24	1
o-Terphenyl	121		70 - 130				03/21/25 15:26	03/21/25 22:24	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	261		10.1	0.399	mg/Kg			03/22/25 02:44	1

Client Sample ID: B-16 4'

Lab Sample ID: 880-55898-16

Date Collected: 03/20/25 12:30

Matrix: Solid

Date Received: 03/21/25 11:45

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		03/21/25 15:27	03/22/25 04:57	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		03/21/25 15:27	03/22/25 04:57	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		03/21/25 15:27	03/22/25 04:57	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		03/21/25 15:27	03/22/25 04:57	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		03/21/25 15:27	03/22/25 04:57	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg		03/21/25 15:27	03/22/25 04:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				03/21/25 15:27	03/22/25 04:57	1
1,4-Difluorobenzene (Surr)	92		70 - 130				03/21/25 15:27	03/22/25 04:57	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00399	0.00228	mg/Kg			03/22/25 04:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	44.1	J	49.9	15.1	mg/Kg			03/21/25 22:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.9	14.5	mg/Kg		03/21/25 15:26	03/21/25 22:40	1
Diesel Range Organics (Over C10-C28)	44.1	J	49.9	15.1	mg/Kg		03/21/25 15:26	03/21/25 22:40	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		03/21/25 15:26	03/21/25 22:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130				03/21/25 15:26	03/21/25 22:40	1
o-Terphenyl	114		70 - 130				03/21/25 15:26	03/21/25 22:40	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1250		10.0	0.396	mg/Kg			03/22/25 02:50	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: WLU 72

Job ID: 880-55898-1
SDG: Lea County NM

Client Sample ID: B-17 4'

Lab Sample ID: 880-55898-17

Date Collected: 03/20/25 12:40

Matrix: Solid

Date Received: 03/21/25 11:45

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		03/21/25 15:27	03/22/25 05:17	1
Toluene	<0.00198	U	0.00198	0.00198	mg/Kg		03/21/25 15:27	03/22/25 05:17	1
Ethylbenzene	<0.00108	U	0.00198	0.00108	mg/Kg		03/21/25 15:27	03/22/25 05:17	1
m-Xylene & p-Xylene	<0.00226	U	0.00396	0.00226	mg/Kg		03/21/25 15:27	03/22/25 05:17	1
o-Xylene	<0.00157	U	0.00198	0.00157	mg/Kg		03/21/25 15:27	03/22/25 05:17	1
Xylenes, Total	<0.00226	U	0.00396	0.00226	mg/Kg		03/21/25 15:27	03/22/25 05:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	03/21/25 15:27	03/22/25 05:17	1
1,4-Difluorobenzene (Surr)	92		70 - 130	03/21/25 15:27	03/22/25 05:17	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			03/22/25 05:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	32.4	J	50.0	15.1	mg/Kg			03/21/25 22:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		03/21/25 15:26	03/21/25 22:57	1
Diesel Range Organics (Over C10-C28)	32.4	J	50.0	15.1	mg/Kg		03/21/25 15:26	03/21/25 22:57	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		03/21/25 15:26	03/21/25 22:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130	03/21/25 15:26	03/21/25 22:57	1
o-Terphenyl	112		70 - 130	03/21/25 15:26	03/21/25 22:57	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1290		49.7	1.96	mg/Kg			03/22/25 02:56	5

Client Sample ID: B-18 4'

Lab Sample ID: 880-55898-18

Date Collected: 03/20/25 12:50

Matrix: Solid

Date Received: 03/21/25 11:45

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		03/21/25 15:27	03/22/25 05:38	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		03/21/25 15:27	03/22/25 05:38	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		03/21/25 15:27	03/22/25 05:38	1
m-Xylene & p-Xylene	<0.00227	U	0.00398	0.00227	mg/Kg		03/21/25 15:27	03/22/25 05:38	1
o-Xylene	<0.00157	U	0.00199	0.00157	mg/Kg		03/21/25 15:27	03/22/25 05:38	1
Xylenes, Total	<0.00227	U	0.00398	0.00227	mg/Kg		03/21/25 15:27	03/22/25 05:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	03/21/25 15:27	03/22/25 05:38	1
1,4-Difluorobenzene (Surr)	90		70 - 130	03/21/25 15:27	03/22/25 05:38	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: WLU 72

Job ID: 880-55898-1
SDG: Lea County NM

Client Sample ID: B-18 4'

Lab Sample ID: 880-55898-18

Date Collected: 03/20/25 12:50

Matrix: Solid

Date Received: 03/21/25 11:45

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			03/22/25 05:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	22.1	J	49.6	15.0	mg/Kg			03/21/25 23:13	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	<14.4	U	49.6	14.4	mg/Kg		03/21/25 15:26	03/21/25 23:13	1
Diesel Range Organics (Over C10-C28)	22.1	J	49.6	15.0	mg/Kg		03/21/25 15:26	03/21/25 23:13	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.6	15.0	mg/Kg		03/21/25 15:26	03/21/25 23:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130				03/21/25 15:26	03/21/25 23:13	1
o-Terphenyl	107		70 - 130				03/21/25 15:26	03/21/25 23:13	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	329		9.98	0.394	mg/Kg			03/22/25 03:02	1

Client Sample ID: B-19 4'

Lab Sample ID: 880-55898-19

Date Collected: 03/20/25 13:00

Matrix: Solid

Date Received: 03/21/25 11:45

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		03/21/25 15:27	03/22/25 05:58	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		03/21/25 15:27	03/22/25 05:58	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		03/21/25 15:27	03/22/25 05:58	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		03/21/25 15:27	03/22/25 05:58	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		03/21/25 15:27	03/22/25 05:58	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg		03/21/25 15:27	03/22/25 05:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130				03/21/25 15:27	03/22/25 05:58	1
1,4-Difluorobenzene (Surr)	74		70 - 130				03/21/25 15:27	03/22/25 05:58	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			03/22/25 05:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	16.4	J	49.6	15.0	mg/Kg			03/21/25 23:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.4	U	49.6	14.4	mg/Kg		03/21/25 15:26	03/21/25 23:29	1
Diesel Range Organics (Over C10-C28)	16.4	J	49.6	15.0	mg/Kg		03/21/25 15:26	03/21/25 23:29	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: WLU 72

Job ID: 880-55898-1
SDG: Lea County NM

Client Sample ID: B-19 4'

Lab Sample ID: 880-55898-19

Date Collected: 03/20/25 13:00

Matrix: Solid

Date Received: 03/21/25 11:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<15.0	U	49.6	15.0	mg/Kg		03/21/25 15:26	03/21/25 23:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130				03/21/25 15:26	03/21/25 23:29	1
o-Terphenyl	110		70 - 130				03/21/25 15:26	03/21/25 23:29	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	157		10.0	0.397	mg/Kg			03/22/25 07:26	1

Client Sample ID: B-20 4'

Lab Sample ID: 880-55898-20

Date Collected: 03/20/25 13:10

Matrix: Solid

Date Received: 03/21/25 11:45

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		03/21/25 15:27	03/22/25 06:19	1
Toluene	<0.00198	U	0.00198	0.00198	mg/Kg		03/21/25 15:27	03/22/25 06:19	1
Ethylbenzene	<0.00108	U	0.00198	0.00108	mg/Kg		03/21/25 15:27	03/22/25 06:19	1
m-Xylene & p-Xylene	<0.00227	U	0.00397	0.00227	mg/Kg		03/21/25 15:27	03/22/25 06:19	1
o-Xylene	<0.00157	U	0.00198	0.00157	mg/Kg		03/21/25 15:27	03/22/25 06:19	1
Xylenes, Total	<0.00227	U	0.00397	0.00227	mg/Kg		03/21/25 15:27	03/22/25 06:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				03/21/25 15:27	03/22/25 06:19	1
1,4-Difluorobenzene (Surr)	95		70 - 130				03/21/25 15:27	03/22/25 06:19	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	0.00397	0.00227	mg/Kg			03/22/25 06:19	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	50.0	15.1	mg/Kg			03/21/25 23:45	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	<14.5	U	50.0	14.5	mg/Kg		03/21/25 15:26	03/21/25 23:45	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		03/21/25 15:26	03/21/25 23:45	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		03/21/25 15:26	03/21/25 23:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130				03/21/25 15:26	03/21/25 23:45	1
o-Terphenyl	109		70 - 130				03/21/25 15:26	03/21/25 23:45	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2010		49.8	1.97	mg/Kg			03/22/25 03:09	5

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Surrogate Summary

Client: Arcadis US Inc.
Project/Site: WLU 72

Job ID: 880-55898-1
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	DFBZ1				
		(70-130)	(70-130)				
880-55898-1	B-1 4'	103	92				
880-55898-1 MS	B-1 4'	104	100				
880-55898-1 MSD	B-1 4'	119	95				
880-55898-2	B-2 4'	107	69 S1-				
880-55898-3	B-3 4'	107	74				
880-55898-4	B-4 4'	100	91				
880-55898-5	B-5 4'	109	69 S1-				
880-55898-6	B-6 4'	121	81				
880-55898-7	B-7 4'	101	92				
880-55898-8	B-8 4'	105	71				
880-55898-9	B-9 4'	115	75				
880-55898-10	B-10 4'	119	82				
880-55898-11	B-11 4'	107	66 S1-				
880-55898-12	B-12 4'	113	82				
880-55898-13	B-13 4'	99	89				
880-55898-14	B-14 4'	107	95				
880-55898-15	B-15 4'	105	93				
880-55898-16	B-16 4'	103	92				
880-55898-17	B-17 4'	103	92				
880-55898-18	B-18 4'	100	90				
880-55898-19	B-19 4'	113	74				
880-55898-20	B-20 4'	107	95				
LCS 880-105789/1-A	Lab Control Sample	127	96				
LCSD 880-105789/2-A	Lab Control Sample Dup	103	94				
MB 880-105729/5-A	Method Blank	91	88				
MB 880-105789/5-A	Method Blank	95	89				
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	OTPH1				
		(70-130)	(70-130)				
880-55898-1	B-1 4'	133 S1+	127				
880-55898-1 MS	B-1 4'	116	119				
880-55898-1 MSD	B-1 4'	137 S1+	120				
880-55898-2	B-2 4'	134 S1+	128				
880-55898-3	B-3 4'	125	117				
880-55898-4	B-4 4'	127	119				
880-55898-5	B-5 4'	133 S1+	115				
880-55898-6	B-6 4'	132 S1+	124				
880-55898-7	B-7 4'	125	114				
880-55898-8	B-8 4'	124	121				
880-55898-9	B-9 4'	116	111				
880-55898-10	B-10 4'	128	125				
880-55898-11	B-11 4'	126	117				

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Surrogate Summary

Client: Arcadis US Inc.
Project/Site: WLU 72

Job ID: 880-55898-1
SDG: Lea County NM

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-55898-12	B-12 4'	128	123
880-55898-13	B-13 4'	122	113
880-55898-14	B-14 4'	117	108
880-55898-15	B-15 4'	126	121
880-55898-16	B-16 4'	120	114
880-55898-17	B-17 4'	118	112
880-55898-18	B-18 4'	111	107
880-55898-19	B-19 4'	113	110
880-55898-20	B-20 4'	115	109
LCS 880-105788/2-A	Lab Control Sample	128	143 S1+
LCSD 880-105788/3-A	Lab Control Sample Dup	132 S1+	143 S1+
MB 880-105788/1-A	Method Blank	145 S1+	144 S1+

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Arcadis US Inc.
Project/Site: WLU 72

Job ID: 880-55898-1
SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-105729/5-A

Matrix: Solid

Analysis Batch: 105723

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 105729

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		03/21/25 08:38	03/21/25 11:01	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		03/21/25 08:38	03/21/25 11:01	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		03/21/25 08:38	03/21/25 11:01	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		03/21/25 08:38	03/21/25 11:01	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		03/21/25 08:38	03/21/25 11:01	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		03/21/25 08:38	03/21/25 11:01	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	03/21/25 08:38	03/21/25 11:01	1
1,4-Difluorobenzene (Surr)	88		70 - 130	03/21/25 08:38	03/21/25 11:01	1

Lab Sample ID: MB 880-105789/5-A

Matrix: Solid

Analysis Batch: 105723

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 105789

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		03/21/25 15:27	03/21/25 22:24	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		03/21/25 15:27	03/21/25 22:24	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		03/21/25 15:27	03/21/25 22:24	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		03/21/25 15:27	03/21/25 22:24	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		03/21/25 15:27	03/21/25 22:24	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg		03/21/25 15:27	03/21/25 22:24	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	03/21/25 15:27	03/21/25 22:24	1
1,4-Difluorobenzene (Surr)	89		70 - 130	03/21/25 15:27	03/21/25 22:24	1

Lab Sample ID: LCS 880-105789/1-A

Matrix: Solid

Analysis Batch: 105723

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 105789

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1022		mg/Kg		102	70 - 130
Toluene	0.100	0.09975		mg/Kg		100	70 - 130
Ethylbenzene	0.100	0.09822		mg/Kg		98	70 - 130
m-Xylene & p-Xylene	0.200	0.1944		mg/Kg		97	70 - 130
o-Xylene	0.100	0.09612		mg/Kg		96	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	127		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: LCSD 880-105789/2-A

Matrix: Solid

Analysis Batch: 105723

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 105789

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1027		mg/Kg		103	70 - 130	0	35

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: WLU 72

Job ID: 880-55898-1
SDG: Lea County NM

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

Lab Sample ID: LCSD 880-105789/2-A

Matrix: Solid

Analysis Batch: 105723

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 105789

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.09775		mg/Kg		98	70 - 130	2	35
Ethylbenzene	0.100	0.08805		mg/Kg		88	70 - 130	11	35
m-Xylene & p-Xylene	0.200	0.1796		mg/Kg		90	70 - 130	8	35
o-Xylene	0.100	0.09074		mg/Kg		91	70 - 130	6	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: 880-55898-1 MS

Matrix: Solid

Analysis Batch: 105723

Client Sample ID: B-1 4'

Prep Type: Total/NA

Prep Batch: 105789

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00141	U	0.100	0.1008		mg/Kg		101	70 - 130
Toluene	<0.00202	U	0.100	0.1002		mg/Kg		100	70 - 130
Ethylbenzene	<0.00110	U	0.100	0.1020		mg/Kg		102	70 - 130
m-Xylene & p-Xylene	<0.00231	U	0.200	0.2004		mg/Kg		100	70 - 130
o-Xylene	<0.00160	U	0.100	0.09591		mg/Kg		96	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 880-55898-1 MSD

Matrix: Solid

Analysis Batch: 105723

Client Sample ID: B-1 4'

Prep Type: Total/NA

Prep Batch: 105789

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00141	U	0.100	0.1004		mg/Kg		100	70 - 130	0	35
Toluene	<0.00202	U	0.100	0.09788		mg/Kg		98	70 - 130	2	35
Ethylbenzene	<0.00110	U	0.100	0.09400		mg/Kg		94	70 - 130	8	35
m-Xylene & p-Xylene	<0.00231	U	0.200	0.1808		mg/Kg		90	70 - 130	10	35
o-Xylene	<0.00160	U	0.100	0.1048		mg/Kg		105	70 - 130	9	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	119		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

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

Lab Sample ID: MB 880-105788/1-A

Matrix: Solid

Analysis Batch: 105738

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 105788

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		03/21/25 15:26	03/21/25 16:55	1

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: WLU 72

Job ID: 880-55898-1
SDG: Lea County NM

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

Lab Sample ID: MB 880-105788/1-A

Matrix: Solid

Analysis Batch: 105738

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 105788

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		03/21/25 15:26	03/21/25 16:55	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		03/21/25 15:26	03/21/25 16:55	1
Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac			
	%Recovery	Qualifier							
1-Chlorooctane	145	S1+	70 - 130	03/21/25 15:26	03/21/25 16:55	1			
o-Terphenyl	144	S1+	70 - 130	03/21/25 15:26	03/21/25 16:55	1			

Lab Sample ID: LCS 880-105788/2-A

Matrix: Solid

Analysis Batch: 105738

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 105788

Analyte			Spike	LCS	LCS	Unit	D	%Rec			
			Added	Result	Qualifier			%Rec			
Gasoline Range Organics (GRO)-C6-C10			1000	1082		mg/Kg		108		70 - 130	
Diesel Range Organics (Over C10-C28)			1000	1226		mg/Kg		123		70 - 130	
Surrogate	LCS	LCS	Limits								
	%Recovery	Qualifier									
1-Chlorooctane	128		70 - 130								
o-Terphenyl	143	S1+	70 - 130								

Lab Sample ID: LCSD 880-105788/3-A

Matrix: Solid

Analysis Batch: 105738

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 105788

Analyte			Spike	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	RPD
			Added	Result	Qualifier				Limits		Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1116		mg/Kg		112	70 - 130	3	20
Diesel Range Organics (Over C10-C28)			1000	1249		mg/Kg		125	70 - 130	2	20
Surrogate	LCSD		Limits								
	%Recovery	Qualifier									
1-Chlorooctane	132	S1+	70 - 130								
o-Terphenyl	143	S1+	70 - 130								

Lab Sample ID: 880-55898-1 MS

Matrix: Solid

Analysis Batch: 105738

Client Sample ID: B-1 4'

Prep Type: Total/NA

Prep Batch: 105788

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	Limits		
	Result	Qualifier	Added	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<14.4	U	999	1010		mg/Kg		101	70 - 130			
Diesel Range Organics (Over C10-C28)	<15.0	U	999	1107		mg/Kg		111	70 - 130			

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: WLU 72

Job ID: 880-55898-1
SDG: Lea County NM

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

Lab Sample ID: 880-55898-1 MSD

Matrix: Solid

Analysis Batch: 105738

Client Sample ID: B-1 4'

Prep Type: Total/NA

Prep Batch: 105788

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<14.4	U	999	1015		mg/Kg		102	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<15.0	U	999	1055		mg/Kg		106	70 - 130	5	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	137	S1+	70 - 130								
o-Terphenyl	120		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-105802/1-A

Matrix: Solid

Analysis Batch: 105808

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			03/22/25 00:21	1

Lab Sample ID: LCS 880-105802/2-A

Matrix: Solid

Analysis Batch: 105808

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	248.8		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-105802/3-A

Matrix: Solid

Analysis Batch: 105808

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	250.2		mg/Kg		100	90 - 110	1	20

Lab Sample ID: 880-55898-1 MS

Matrix: Solid

Analysis Batch: 105808

Client Sample ID: B-1 4'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	1830	F1	1250	3442	F1	mg/Kg		130	90 - 110

Lab Sample ID: 880-55898-1 MSD

Matrix: Solid

Analysis Batch: 105808

Client Sample ID: B-1 4'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1830	F1	1250	3450	F1	mg/Kg		130	90 - 110	0	20

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: WLU 72

Job ID: 880-55898-1
SDG: Lea County NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-55898-11 MS											Client Sample ID: B-11 4'		
Matrix: Solid											Prep Type: Soluble		
Analysis Batch: 105808													
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits				
Chloride	417		248	663.3		mg/Kg		100	90 - 110				

Lab Sample ID: 880-55898-11 MSD											Client Sample ID: B-11 4'		
Matrix: Solid											Prep Type: Soluble		
Analysis Batch: 105808													
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit		
Chloride	417		248	664.3		mg/Kg		100	90 - 110	0	20		

QC Association Summary

Client: Arcadis US Inc.
Project/Site: WLU 72

Job ID: 880-55898-1
SDG: Lea County NM

GC VOA

Analysis Batch: 105723

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55898-1	B-1 4'	Total/NA	Solid	8021B	105789
880-55898-2	B-2 4'	Total/NA	Solid	8021B	105789
880-55898-3	B-3 4'	Total/NA	Solid	8021B	105789
880-55898-4	B-4 4'	Total/NA	Solid	8021B	105789
880-55898-5	B-5 4'	Total/NA	Solid	8021B	105789
880-55898-6	B-6 4'	Total/NA	Solid	8021B	105789
880-55898-7	B-7 4'	Total/NA	Solid	8021B	105789
880-55898-8	B-8 4'	Total/NA	Solid	8021B	105789
880-55898-9	B-9 4'	Total/NA	Solid	8021B	105789
880-55898-10	B-10 4'	Total/NA	Solid	8021B	105789
880-55898-11	B-11 4'	Total/NA	Solid	8021B	105789
880-55898-12	B-12 4'	Total/NA	Solid	8021B	105789
880-55898-13	B-13 4'	Total/NA	Solid	8021B	105789
880-55898-14	B-14 4'	Total/NA	Solid	8021B	105789
880-55898-15	B-15 4'	Total/NA	Solid	8021B	105789
880-55898-16	B-16 4'	Total/NA	Solid	8021B	105789
880-55898-17	B-17 4'	Total/NA	Solid	8021B	105789
880-55898-18	B-18 4'	Total/NA	Solid	8021B	105789
880-55898-19	B-19 4'	Total/NA	Solid	8021B	105789
880-55898-20	B-20 4'	Total/NA	Solid	8021B	105789
MB 880-105729/5-A	Method Blank	Total/NA	Solid	8021B	105729
MB 880-105789/5-A	Method Blank	Total/NA	Solid	8021B	105789
LCS 880-105789/1-A	Lab Control Sample	Total/NA	Solid	8021B	105789
LCSD 880-105789/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	105789
880-55898-1 MS	B-1 4'	Total/NA	Solid	8021B	105789
880-55898-1 MSD	B-1 4'	Total/NA	Solid	8021B	105789

Prep Batch: 105729

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-105729/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 105789

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55898-1	B-1 4'	Total/NA	Solid	5030B	
880-55898-2	B-2 4'	Total/NA	Solid	5030B	
880-55898-3	B-3 4'	Total/NA	Solid	5030B	
880-55898-4	B-4 4'	Total/NA	Solid	5030B	
880-55898-5	B-5 4'	Total/NA	Solid	5030B	
880-55898-6	B-6 4'	Total/NA	Solid	5030B	
880-55898-7	B-7 4'	Total/NA	Solid	5030B	
880-55898-8	B-8 4'	Total/NA	Solid	5030B	
880-55898-9	B-9 4'	Total/NA	Solid	5030B	
880-55898-10	B-10 4'	Total/NA	Solid	5030B	
880-55898-11	B-11 4'	Total/NA	Solid	5030B	
880-55898-12	B-12 4'	Total/NA	Solid	5030B	
880-55898-13	B-13 4'	Total/NA	Solid	5030B	
880-55898-14	B-14 4'	Total/NA	Solid	5030B	
880-55898-15	B-15 4'	Total/NA	Solid	5030B	
880-55898-16	B-16 4'	Total/NA	Solid	5030B	
880-55898-17	B-17 4'	Total/NA	Solid	5030B	
880-55898-18	B-18 4'	Total/NA	Solid	5030B	

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QC Association Summary

Client: Arcadis US Inc.
Project/Site: WLU 72

Job ID: 880-55898-1
SDG: Lea County NM

GC VOA (Continued)

Prep Batch: 105789 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55898-19	B-19 4'	Total/NA	Solid	5030B	
880-55898-20	B-20 4'	Total/NA	Solid	5030B	
MB 880-105789/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-105789/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-105789/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
880-55898-1 MS	B-1 4'	Total/NA	Solid	5030B	
880-55898-1 MSD	B-1 4'	Total/NA	Solid	5030B	

Analysis Batch: 105938

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55898-1	B-1 4'	Total/NA	Solid	Total BTEX	
880-55898-2	B-2 4'	Total/NA	Solid	Total BTEX	
880-55898-3	B-3 4'	Total/NA	Solid	Total BTEX	
880-55898-4	B-4 4'	Total/NA	Solid	Total BTEX	
880-55898-5	B-5 4'	Total/NA	Solid	Total BTEX	
880-55898-6	B-6 4'	Total/NA	Solid	Total BTEX	
880-55898-7	B-7 4'	Total/NA	Solid	Total BTEX	
880-55898-8	B-8 4'	Total/NA	Solid	Total BTEX	
880-55898-9	B-9 4'	Total/NA	Solid	Total BTEX	
880-55898-10	B-10 4'	Total/NA	Solid	Total BTEX	
880-55898-11	B-11 4'	Total/NA	Solid	Total BTEX	
880-55898-12	B-12 4'	Total/NA	Solid	Total BTEX	
880-55898-13	B-13 4'	Total/NA	Solid	Total BTEX	
880-55898-14	B-14 4'	Total/NA	Solid	Total BTEX	
880-55898-15	B-15 4'	Total/NA	Solid	Total BTEX	
880-55898-16	B-16 4'	Total/NA	Solid	Total BTEX	
880-55898-17	B-17 4'	Total/NA	Solid	Total BTEX	
880-55898-18	B-18 4'	Total/NA	Solid	Total BTEX	
880-55898-19	B-19 4'	Total/NA	Solid	Total BTEX	
880-55898-20	B-20 4'	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 105738

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55898-1	B-1 4'	Total/NA	Solid	8015B NM	105788
880-55898-2	B-2 4'	Total/NA	Solid	8015B NM	105788
880-55898-3	B-3 4'	Total/NA	Solid	8015B NM	105788
880-55898-4	B-4 4'	Total/NA	Solid	8015B NM	105788
880-55898-5	B-5 4'	Total/NA	Solid	8015B NM	105788
880-55898-6	B-6 4'	Total/NA	Solid	8015B NM	105788
880-55898-7	B-7 4'	Total/NA	Solid	8015B NM	105788
880-55898-8	B-8 4'	Total/NA	Solid	8015B NM	105788
880-55898-9	B-9 4'	Total/NA	Solid	8015B NM	105788
880-55898-10	B-10 4'	Total/NA	Solid	8015B NM	105788
880-55898-11	B-11 4'	Total/NA	Solid	8015B NM	105788
880-55898-12	B-12 4'	Total/NA	Solid	8015B NM	105788
880-55898-13	B-13 4'	Total/NA	Solid	8015B NM	105788
880-55898-14	B-14 4'	Total/NA	Solid	8015B NM	105788
880-55898-15	B-15 4'	Total/NA	Solid	8015B NM	105788
880-55898-16	B-16 4'	Total/NA	Solid	8015B NM	105788

Eurofins Midland

QC Association Summary

Client: Arcadis US Inc.
Project/Site: WLU 72

Job ID: 880-55898-1
SDG: Lea County NM

GC Semi VOA (Continued)

Analysis Batch: 105738 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55898-17	B-17 4'	Total/NA	Solid	8015B NM	105788
880-55898-18	B-18 4'	Total/NA	Solid	8015B NM	105788
880-55898-19	B-19 4'	Total/NA	Solid	8015B NM	105788
880-55898-20	B-20 4'	Total/NA	Solid	8015B NM	105788
MB 880-105788/1-A	Method Blank	Total/NA	Solid	8015B NM	105788
LCS 880-105788/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	105788
LCSD 880-105788/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	105788
880-55898-1 MS	B-1 4'	Total/NA	Solid	8015B NM	105788
880-55898-1 MSD	B-1 4'	Total/NA	Solid	8015B NM	105788

Prep Batch: 105788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55898-1	B-1 4'	Total/NA	Solid	8015NM Prep	
880-55898-2	B-2 4'	Total/NA	Solid	8015NM Prep	
880-55898-3	B-3 4'	Total/NA	Solid	8015NM Prep	
880-55898-4	B-4 4'	Total/NA	Solid	8015NM Prep	
880-55898-5	B-5 4'	Total/NA	Solid	8015NM Prep	
880-55898-6	B-6 4'	Total/NA	Solid	8015NM Prep	
880-55898-7	B-7 4'	Total/NA	Solid	8015NM Prep	
880-55898-8	B-8 4'	Total/NA	Solid	8015NM Prep	
880-55898-9	B-9 4'	Total/NA	Solid	8015NM Prep	
880-55898-10	B-10 4'	Total/NA	Solid	8015NM Prep	
880-55898-11	B-11 4'	Total/NA	Solid	8015NM Prep	
880-55898-12	B-12 4'	Total/NA	Solid	8015NM Prep	
880-55898-13	B-13 4'	Total/NA	Solid	8015NM Prep	
880-55898-14	B-14 4'	Total/NA	Solid	8015NM Prep	
880-55898-15	B-15 4'	Total/NA	Solid	8015NM Prep	
880-55898-16	B-16 4'	Total/NA	Solid	8015NM Prep	
880-55898-17	B-17 4'	Total/NA	Solid	8015NM Prep	
880-55898-18	B-18 4'	Total/NA	Solid	8015NM Prep	
880-55898-19	B-19 4'	Total/NA	Solid	8015NM Prep	
880-55898-20	B-20 4'	Total/NA	Solid	8015NM Prep	
MB 880-105788/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-105788/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-105788/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-55898-1 MS	B-1 4'	Total/NA	Solid	8015NM Prep	
880-55898-1 MSD	B-1 4'	Total/NA	Solid	8015NM Prep	

Analysis Batch: 106011

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55898-1	B-1 4'	Total/NA	Solid	8015 NM	
880-55898-2	B-2 4'	Total/NA	Solid	8015 NM	
880-55898-3	B-3 4'	Total/NA	Solid	8015 NM	
880-55898-4	B-4 4'	Total/NA	Solid	8015 NM	
880-55898-5	B-5 4'	Total/NA	Solid	8015 NM	
880-55898-6	B-6 4'	Total/NA	Solid	8015 NM	
880-55898-7	B-7 4'	Total/NA	Solid	8015 NM	
880-55898-8	B-8 4'	Total/NA	Solid	8015 NM	
880-55898-9	B-9 4'	Total/NA	Solid	8015 NM	
880-55898-10	B-10 4'	Total/NA	Solid	8015 NM	
880-55898-11	B-11 4'	Total/NA	Solid	8015 NM	

Eurofins Midland

QC Association Summary

Client: Arcadis US Inc.
Project/Site: WLU 72

Job ID: 880-55898-1
SDG: Lea County NM

GC Semi VOA (Continued)

Analysis Batch: 106011 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55898-12	B-12 4'	Total/NA	Solid	8015 NM	
880-55898-13	B-13 4'	Total/NA	Solid	8015 NM	
880-55898-14	B-14 4'	Total/NA	Solid	8015 NM	
880-55898-15	B-15 4'	Total/NA	Solid	8015 NM	
880-55898-16	B-16 4'	Total/NA	Solid	8015 NM	
880-55898-17	B-17 4'	Total/NA	Solid	8015 NM	
880-55898-18	B-18 4'	Total/NA	Solid	8015 NM	
880-55898-19	B-19 4'	Total/NA	Solid	8015 NM	
880-55898-20	B-20 4'	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 105802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55898-1	B-1 4'	Soluble	Solid	DI Leach	
880-55898-2	B-2 4'	Soluble	Solid	DI Leach	
880-55898-3	B-3 4'	Soluble	Solid	DI Leach	
880-55898-4	B-4 4'	Soluble	Solid	DI Leach	
880-55898-5	B-5 4'	Soluble	Solid	DI Leach	
880-55898-6	B-6 4'	Soluble	Solid	DI Leach	
880-55898-7	B-7 4'	Soluble	Solid	DI Leach	
880-55898-8	B-8 4'	Soluble	Solid	DI Leach	
880-55898-9	B-9 4'	Soluble	Solid	DI Leach	
880-55898-10	B-10 4'	Soluble	Solid	DI Leach	
880-55898-11	B-11 4'	Soluble	Solid	DI Leach	
880-55898-12	B-12 4'	Soluble	Solid	DI Leach	
880-55898-13	B-13 4'	Soluble	Solid	DI Leach	
880-55898-14	B-14 4'	Soluble	Solid	DI Leach	
880-55898-15	B-15 4'	Soluble	Solid	DI Leach	
880-55898-16	B-16 4'	Soluble	Solid	DI Leach	
880-55898-17	B-17 4'	Soluble	Solid	DI Leach	
880-55898-18	B-18 4'	Soluble	Solid	DI Leach	
880-55898-19	B-19 4'	Soluble	Solid	DI Leach	
880-55898-20	B-20 4'	Soluble	Solid	DI Leach	
MB 880-105802/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-105802/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-105802/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-55898-1 MS	B-1 4'	Soluble	Solid	DI Leach	
880-55898-1 MSD	B-1 4'	Soluble	Solid	DI Leach	
880-55898-11 MS	B-11 4'	Soluble	Solid	DI Leach	
880-55898-11 MSD	B-11 4'	Soluble	Solid	DI Leach	

Analysis Batch: 105808

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55898-1	B-1 4'	Soluble	Solid	300.0	105802
880-55898-2	B-2 4'	Soluble	Solid	300.0	105802
880-55898-3	B-3 4'	Soluble	Solid	300.0	105802
880-55898-4	B-4 4'	Soluble	Solid	300.0	105802
880-55898-5	B-5 4'	Soluble	Solid	300.0	105802
880-55898-6	B-6 4'	Soluble	Solid	300.0	105802
880-55898-7	B-7 4'	Soluble	Solid	300.0	105802

Eurofins Midland

QC Association Summary

Client: Arcadis US Inc.
Project/Site: WLU 72

Job ID: 880-55898-1
SDG: Lea County NM

HPLC/IC (Continued)

Analysis Batch: 105808 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-55898-8	B-8 4'	Soluble	Solid	300.0	105802
880-55898-9	B-9 4'	Soluble	Solid	300.0	105802
880-55898-10	B-10 4'	Soluble	Solid	300.0	105802
880-55898-11	B-11 4'	Soluble	Solid	300.0	105802
880-55898-12	B-12 4'	Soluble	Solid	300.0	105802
880-55898-13	B-13 4'	Soluble	Solid	300.0	105802
880-55898-14	B-14 4'	Soluble	Solid	300.0	105802
880-55898-15	B-15 4'	Soluble	Solid	300.0	105802
880-55898-16	B-16 4'	Soluble	Solid	300.0	105802
880-55898-17	B-17 4'	Soluble	Solid	300.0	105802
880-55898-18	B-18 4'	Soluble	Solid	300.0	105802
880-55898-19	B-19 4'	Soluble	Solid	300.0	105802
880-55898-20	B-20 4'	Soluble	Solid	300.0	105802
MB 880-105802/1-A	Method Blank	Soluble	Solid	300.0	105802
LCS 880-105802/2-A	Lab Control Sample	Soluble	Solid	300.0	105802
LCSD 880-105802/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	105802
880-55898-1 MS	B-1 4'	Soluble	Solid	300.0	105802
880-55898-1 MSD	B-1 4'	Soluble	Solid	300.0	105802
880-55898-11 MS	B-11 4'	Soluble	Solid	300.0	105802
880-55898-11 MSD	B-11 4'	Soluble	Solid	300.0	105802

Lab Chronicle

Client: Arcadis US Inc.
Project/Site: WLU 72

Job ID: 880-55898-1
SDG: Lea County NM

Client Sample ID: B-1 4'

Lab Sample ID: 880-55898-1

Date Collected: 03/20/25 10:00

Matrix: Solid

Date Received: 03/21/25 11:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.95 g	5 mL	105789	03/21/25 15:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105723	03/21/25 22:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105938	03/21/25 22:46	AJ	EET MID
Total/NA	Analysis	8015 NM		1			106011	03/21/25 17:46	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	105788	03/21/25 15:26	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105738	03/21/25 17:46	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	105802	03/21/25 15:45	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	105808	03/22/25 00:38	SMC	EET MID

Client Sample ID: B-2 4'

Lab Sample ID: 880-55898-2

Date Collected: 03/20/25 10:10

Matrix: Solid

Date Received: 03/21/25 11:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.03 g	5 mL	105789	03/21/25 15:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105723	03/21/25 23:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105938	03/21/25 23:06	AJ	EET MID
Total/NA	Analysis	8015 NM		1			106011	03/21/25 18:36	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	105788	03/21/25 15:26	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105738	03/21/25 18:36	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	105802	03/21/25 15:45	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105808	03/22/25 00:55	SMC	EET MID

Client Sample ID: B-3 4'

Lab Sample ID: 880-55898-3

Date Collected: 03/20/25 10:20

Matrix: Solid

Date Received: 03/21/25 11:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.01 g	5 mL	105789	03/21/25 15:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105723	03/21/25 23:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105938	03/21/25 23:27	AJ	EET MID
Total/NA	Analysis	8015 NM		1			106011	03/21/25 18:52	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	105788	03/21/25 15:26	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105738	03/21/25 18:52	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	105802	03/21/25 15:45	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105808	03/22/25 01:01	SMC	EET MID

Client Sample ID: B-4 4'

Lab Sample ID: 880-55898-4

Date Collected: 03/20/25 10:30

Matrix: Solid

Date Received: 03/21/25 11:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.99 g	5 mL	105789	03/21/25 15:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105723	03/21/25 23:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105938	03/21/25 23:47	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: Arcadis US Inc.
Project/Site: WLU 72

Job ID: 880-55898-1
SDG: Lea County NM

Client Sample ID: B-4 4'**Lab Sample ID: 880-55898-4****Date Collected: 03/20/25 10:30****Matrix: Solid****Date Received: 03/21/25 11:45**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			106011	03/21/25 19:09	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	105788	03/21/25 15:26	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105738	03/21/25 19:09	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	105802	03/21/25 15:45	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105808	03/22/25 01:07	SMC	EET MID

Client Sample ID: B-5 4'**Lab Sample ID: 880-55898-5****Date Collected: 03/20/25 10:40****Matrix: Solid****Date Received: 03/21/25 11:45**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.01 g	5 mL	105789	03/21/25 15:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105723	03/22/25 00:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105938	03/22/25 00:08	AJ	EET MID
Total/NA	Analysis	8015 NM		1			106011	03/21/25 19:25	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	105788	03/21/25 15:26	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105738	03/21/25 19:25	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	105802	03/21/25 15:45	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	105808	03/22/25 01:13	SMC	EET MID

Client Sample ID: B-6 4'**Lab Sample ID: 880-55898-6****Date Collected: 03/20/25 10:50****Matrix: Solid****Date Received: 03/21/25 11:45**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.05 g	5 mL	105789	03/21/25 15:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105723	03/22/25 00:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105938	03/22/25 00:29	AJ	EET MID
Total/NA	Analysis	8015 NM		1			106011	03/21/25 19:41	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	105788	03/21/25 15:26	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105738	03/21/25 19:41	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	105802	03/21/25 15:45	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105808	03/22/25 01:30	SMC	EET MID

Client Sample ID: B-7 4'**Lab Sample ID: 880-55898-7****Date Collected: 03/20/25 11:00****Matrix: Solid****Date Received: 03/21/25 11:45**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.03 g	5 mL	105789	03/21/25 15:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105723	03/22/25 00:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105938	03/22/25 00:49	AJ	EET MID
Total/NA	Analysis	8015 NM		1			106011	03/21/25 19:57	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	105788	03/21/25 15:26	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105738	03/21/25 19:57	TKC	EET MID

Eurofins Midland

Lab Chronicle

Client: Arcadis US Inc.
Project/Site: WLU 72

Job ID: 880-55898-1
SDG: Lea County NM

Client Sample ID: B-7 4'**Lab Sample ID: 880-55898-7****Date Collected: 03/20/25 11:00****Matrix: Solid****Date Received: 03/21/25 11:45**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	105802	03/21/25 15:45	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105808	03/22/25 01:35	SMC	EET MID

Client Sample ID: B-8 4'**Lab Sample ID: 880-55898-8****Date Collected: 03/20/25 11:10****Matrix: Solid****Date Received: 03/21/25 11:45**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.00 g	5 mL	105789	03/21/25 15:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105723	03/22/25 01:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105938	03/22/25 01:10	AJ	EET MID
Total/NA	Analysis	8015 NM		1			106011	03/21/25 20:14	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	105788	03/21/25 15:26	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105738	03/21/25 20:14	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	105802	03/21/25 15:45	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105808	03/22/25 01:41	SMC	EET MID

Client Sample ID: B-9 4'**Lab Sample ID: 880-55898-9****Date Collected: 03/20/25 11:20****Matrix: Solid****Date Received: 03/21/25 11:45**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.97 g	5 mL	105789	03/21/25 15:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105723	03/22/25 01:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105938	03/22/25 01:30	AJ	EET MID
Total/NA	Analysis	8015 NM		1			106011	03/21/25 20:30	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	105788	03/21/25 15:26	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105738	03/21/25 20:30	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	105802	03/21/25 15:45	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105808	03/22/25 01:47	SMC	EET MID

Client Sample ID: B-10 4'**Lab Sample ID: 880-55898-10****Date Collected: 03/20/25 11:30****Matrix: Solid****Date Received: 03/21/25 11:45**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.99 g	5 mL	105789	03/21/25 15:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105723	03/22/25 01:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105938	03/22/25 01:51	AJ	EET MID
Total/NA	Analysis	8015 NM		1			106011	03/21/25 20:46	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	105788	03/21/25 15:26	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105738	03/21/25 20:46	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	105802	03/21/25 15:45	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105808	03/22/25 01:53	SMC	EET MID

Eurofins Midland

Lab Chronicle

Client: Arcadis US Inc.
Project/Site: WLU 72

Job ID: 880-55898-1
SDG: Lea County NM

Client Sample ID: B-11 4'**Lab Sample ID: 880-55898-11****Date Collected: 03/20/25 11:40****Matrix: Solid****Date Received: 03/21/25 11:45**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.02 g	5 mL	105789	03/21/25 15:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105723	03/22/25 03:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105938	03/22/25 03:14	AJ	EET MID
Total/NA	Analysis	8015 NM		1			106011	03/21/25 21:19	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	105788	03/21/25 15:26	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105738	03/21/25 21:19	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	105802	03/21/25 15:45	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105808	03/22/25 01:58	SMC	EET MID

Client Sample ID: B-12 4'**Lab Sample ID: 880-55898-12****Date Collected: 03/20/25 11:50****Matrix: Solid****Date Received: 03/21/25 11:45**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.05 g	5 mL	105789	03/21/25 15:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105723	03/22/25 03:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105938	03/22/25 03:35	AJ	EET MID
Total/NA	Analysis	8015 NM		1			106011	03/21/25 21:34	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	105788	03/21/25 15:26	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105738	03/21/25 21:34	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	105802	03/21/25 15:45	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105808	03/22/25 02:16	SMC	EET MID

Client Sample ID: B-13 4'**Lab Sample ID: 880-55898-13****Date Collected: 03/20/25 12:00****Matrix: Solid****Date Received: 03/21/25 11:45**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.03 g	5 mL	105789	03/21/25 15:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105723	03/22/25 03:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105938	03/22/25 03:55	AJ	EET MID
Total/NA	Analysis	8015 NM		1			106011	03/21/25 21:51	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	105788	03/21/25 15:26	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105738	03/21/25 21:51	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	105802	03/21/25 15:45	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	105808	03/22/25 02:21	SMC	EET MID

Client Sample ID: B-14 4'**Lab Sample ID: 880-55898-14****Date Collected: 03/20/25 12:10****Matrix: Solid****Date Received: 03/21/25 11:45**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.01 g	5 mL	105789	03/21/25 15:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105723	03/22/25 04:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105938	03/22/25 04:16	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: Arcadis US Inc.
Project/Site: WLU 72

Job ID: 880-55898-1
SDG: Lea County NM

Client Sample ID: B-14 4'

Lab Sample ID: 880-55898-14

Date Collected: 03/20/25 12:10

Matrix: Solid

Date Received: 03/21/25 11:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			106011	03/21/25 22:07	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	105788	03/21/25 15:26	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105738	03/21/25 22:07	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	105802	03/21/25 15:45	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	105808	03/22/25 02:39	SMC	EET MID

Client Sample ID: B-15 4'

Lab Sample ID: 880-55898-15

Date Collected: 03/20/25 12:20

Matrix: Solid

Date Received: 03/21/25 11:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.99 g	5 mL	105789	03/21/25 15:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105723	03/22/25 04:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105938	03/22/25 04:36	AJ	EET MID
Total/NA	Analysis	8015 NM		1			106011	03/21/25 22:24	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	105788	03/21/25 15:26	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105738	03/21/25 22:24	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	105802	03/21/25 15:45	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105808	03/22/25 02:44	SMC	EET MID

Client Sample ID: B-16 4'

Lab Sample ID: 880-55898-16

Date Collected: 03/20/25 12:30

Matrix: Solid

Date Received: 03/21/25 11:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.01 g	5 mL	105789	03/21/25 15:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105723	03/22/25 04:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105938	03/22/25 04:57	AJ	EET MID
Total/NA	Analysis	8015 NM		1			106011	03/21/25 22:40	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	105788	03/21/25 15:26	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105738	03/21/25 22:40	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	105802	03/21/25 15:45	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105808	03/22/25 02:50	SMC	EET MID

Client Sample ID: B-17 4'

Lab Sample ID: 880-55898-17

Date Collected: 03/20/25 12:40

Matrix: Solid

Date Received: 03/21/25 11:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.05 g	5 mL	105789	03/21/25 15:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105723	03/22/25 05:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105938	03/22/25 05:17	AJ	EET MID
Total/NA	Analysis	8015 NM		1			106011	03/21/25 22:57	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	105788	03/21/25 15:26	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105738	03/21/25 22:57	TKC	EET MID

Eurofins Midland

Lab Chronicle

Client: Arcadis US Inc.
Project/Site: WLU 72

Job ID: 880-55898-1
SDG: Lea County NM

Client Sample ID: B-17 4'**Lab Sample ID: 880-55898-17****Date Collected: 03/20/25 12:40****Matrix: Solid****Date Received: 03/21/25 11:45**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	105802	03/21/25 15:45	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	105808	03/22/25 02:56	SMC	EET MID

Client Sample ID: B-18 4'**Lab Sample ID: 880-55898-18****Date Collected: 03/20/25 12:50****Matrix: Solid****Date Received: 03/21/25 11:45**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.03 g	5 mL	105789	03/21/25 15:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105723	03/22/25 05:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105938	03/22/25 05:38	AJ	EET MID
Total/NA	Analysis	8015 NM		1			106011	03/21/25 23:13	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	105788	03/21/25 15:26	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105738	03/21/25 23:13	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	105802	03/21/25 15:45	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105808	03/22/25 03:02	SMC	EET MID

Client Sample ID: B-19 4'**Lab Sample ID: 880-55898-19****Date Collected: 03/20/25 13:00****Matrix: Solid****Date Received: 03/21/25 11:45**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.01 g	5 mL	105789	03/21/25 15:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105723	03/22/25 05:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105938	03/22/25 05:58	AJ	EET MID
Total/NA	Analysis	8015 NM		1			106011	03/21/25 23:29	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	105788	03/21/25 15:26	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105738	03/21/25 23:29	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	105802	03/21/25 15:45	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	105808	03/22/25 07:26	SMC	EET MID

Client Sample ID: B-20 4'**Lab Sample ID: 880-55898-20****Date Collected: 03/20/25 13:10****Matrix: Solid****Date Received: 03/21/25 11:45**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.04 g	5 mL	105789	03/21/25 15:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	105723	03/22/25 06:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			105938	03/22/25 06:19	AJ	EET MID
Total/NA	Analysis	8015 NM		1			106011	03/21/25 23:45	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	105788	03/21/25 15:26	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	105738	03/21/25 23:45	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	105802	03/21/25 15:45	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	105808	03/22/25 03:09	SMC	EET MID

Eurofins Midland

Lab Chronicle

Client: Arcadis US Inc.
Project/Site: WLU 72

Job ID: 880-55898-1
SDG: Lea County NM

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: Arcadis US Inc.
Project/Site: WLU 72

Job ID: 880-55898-1
SDG: Lea County NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Arcadis US Inc.
Project/Site: WLU 72

Job ID: 880-55898-1
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
5030B	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: Arcadis US Inc.
Project/Site: WLU 72

Job ID: 880-55898-1
SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-55898-1	B-1 4'	Solid	03/20/25 10:00	03/21/25 11:45
880-55898-2	B-2 4'	Solid	03/20/25 10:10	03/21/25 11:45
880-55898-3	B-3 4'	Solid	03/20/25 10:20	03/21/25 11:45
880-55898-4	B-4 4'	Solid	03/20/25 10:30	03/21/25 11:45
880-55898-5	B-5 4'	Solid	03/20/25 10:40	03/21/25 11:45
880-55898-6	B-6 4'	Solid	03/20/25 10:50	03/21/25 11:45
880-55898-7	B-7 4'	Solid	03/20/25 11:00	03/21/25 11:45
880-55898-8	B-8 4'	Solid	03/20/25 11:10	03/21/25 11:45
880-55898-9	B-9 4'	Solid	03/20/25 11:20	03/21/25 11:45
880-55898-10	B-10 4'	Solid	03/20/25 11:30	03/21/25 11:45
880-55898-11	B-11 4'	Solid	03/20/25 11:40	03/21/25 11:45
880-55898-12	B-12 4'	Solid	03/20/25 11:50	03/21/25 11:45
880-55898-13	B-13 4'	Solid	03/20/25 12:00	03/21/25 11:45
880-55898-14	B-14 4'	Solid	03/20/25 12:10	03/21/25 11:45
880-55898-15	B-15 4'	Solid	03/20/25 12:20	03/21/25 11:45
880-55898-16	B-16 4'	Solid	03/20/25 12:30	03/21/25 11:45
880-55898-17	B-17 4'	Solid	03/20/25 12:40	03/21/25 11:45
880-55898-18	B-18 4'	Solid	03/20/25 12:50	03/21/25 11:45
880-55898-19	B-19 4'	Solid	03/20/25 13:00	03/21/25 11:45
880-55898-20	B-20 4'	Solid	03/20/25 13:10	03/21/25 11:45

Eurofins Midland

1211 W. Florida Ave
Midland, TX 79701
Phone (432) 704-5440

Chain of Custody Record



Environment Testing

Client Information Client Contact: Mr. Morgan Jordan Company: Arcadis U.S., Inc. Address: 1004 North Big Spring Suite 300 City: Midland State: TX, Zip: 79701 Phone: 281-644-9437(Tel) Email: douglas.jordan@arcadis.com Project Name: WLU 72 Site: Lea County, NM		Sampler: Heath Boyd Phone: 575-942-0292 PWSID:		Lab PM: Builes, John E-Mail: John.Builes@et.eurofins.com Career Tracking No(s): NM State of Origin: NM Job #: 559912		COC No: 880-10757-1562.1 Page: Page 1 of 2 Job #: 559912					
Due Date Requested: TAT Requested (days): 3- Day TAT Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No PO #: WO #: Project #: 30237098-0004 SSOW#:		Analysis Requested Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> 8015MOD_NM - Full TPH <input checked="" type="checkbox"/> 300_ORGFM_28D - Chloride <input checked="" type="checkbox"/> 8021B - BTEX <input checked="" type="checkbox"/> Other:									
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=soil, A=air)	Preservation Code	Field Filtered Sample (Yes or No)	8015MOD_NM - Full TPH	300_ORGFM_28D - Chloride	8021B - BTEX	Total Number of containers	Special Instructions/Note:
B-1-4'	3/20/25	1000	C	Solid		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1	
B-2-4'		1010		Solid		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1	
B-3-4'		1020		Solid		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1	
B-4-4'		1030		Solid		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1	
B-5-4'		1040		Solid		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1	
B-6-4'		1050		Solid		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1	
B-7-4'		1100		Solid		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1	
B-8-4'		1110		Solid		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1	
B-9-4'		1120		Solid		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1	
B-10-4'		1130		Solid		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1	
B-11-4'		1140	X	Solid		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1	
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify)											
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months											
Special Instructions/OC Requirements:											
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:					
Relinquished by: <i>James Longward</i>		Date/Time: 5/21/25 1459		Company: Arcadis		Relinquished by:		Date/Time:		Company:	
Relinquished by:		Date/Time:		Company:		Relinquished by:		Date/Time:		Company:	
Relinquished by:		Date/Time:		Company:		Relinquished by:		Date/Time:		Company:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 14/13							

Environment Testing

Chain of Custody Record

1211 W. Florida Ave
Midland, TX 79701
Phone (432) 704-5440

Client Information					
Sampler:	Heath B.				
Lab PM:	Builes, John				
COC No:	880-10757-1562.1				
Phone:	575-947-0292				
E-Mail:	John.Builes@et.eurofinsus.com				
Company:	Arcadis U.S., Inc.				
Address:	1004 North Big Spring Suite 300				
City:	Midland				
State, Zip:	TX, 79701				
Phone:	281-644-9437(Tel)				
Email:	douglas.jordan@arcadis.com				
Project Name:	WLU 72				
Site:	Lea County, NM				
Analysis Requested					
Due Date Requested:					
TAT Requested (days):	3-Day TAT				
Compliance Project:	Δ Yes Δ No				
PO #:					
WO #:					
Project #:	30237098-00004				
SSOW#:					
Sample Identification					
Sample ID	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix (Residue, Swill, Over-spread, BT-Tissue, Analyt)	Preservation Code:
B-12-4'	3/20/25	1150	L	Solid	
B-13-4'		1200		Solid	
B-14-4'		1210		Solid	
B-15-4'		1220		Solid	
B-16-4'		1230		Solid	
B-17-4'		1240		Solid	
B-18-4'		1250		Solid	
B-19-4'		1300		Solid	
B-20-4'	X	1310	X	Solid	
				Solid	
				Solid	
Possible Hazard Identification					
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological					
Deliverable Requested: I, II, III, IV, Other (specify)					
Empty Kit Relinquished by:					
Relinquished by: [Signature]					
Date/Time: 03/21/25 / 1455					
Relinquished by: [Signature]					
Date/Time: 03/21/25 / 1455					
Relinquished by: [Signature]					
Date/Time: 03/21/25 / 1455					
Cooler Temperature(s) °C and Other Remarks:					

Login Sample Receipt Checklist

Client: Arcadis US Inc.

Job Number: 880-55898-1

SDG Number: Lea County NM

Login Number: 55898

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	



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Morgan Jordan
Arcadis US Inc.
1004 North Big Spring
Suite 300
Midland, Texas 79701

Generated 3/31/2025 4:18:48 PM

JOB DESCRIPTION

NM Sites
Lea County nm

JOB NUMBER

880-56185-1

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
3/31/2025 4:18:48 PM

Authorized for release by
John Builes, Project Manager
John.Builes@et.eurofinsus.com
(561)558-4549

Client: Arcadis US Inc.
Project/Site: NM Sites

Laboratory Job ID: 880-56185-1
SDG: Lea County nm

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Definitions/Glossary

Client: Arcadis US Inc.
Project/Site: NM Sites

Job ID: 880-56185-1
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.
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: Arcadis US Inc.
Project: NM Sites

Job ID: 880-56185-1

Job ID: 880-56185-1

Eurofins Midland

Job Narrative 880-56185-1

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 3/28/2025 2:00 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 4.3°C.

GC VOA

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

Diesel Range Organics

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-106354 and analytical batch 880-106417 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: B-24 4' (880-56185-7). 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: Arcadis US Inc.
Project/Site: NM Sites

Job ID: 880-56185-1
SDG: Lea County nm

Client Sample ID: B-21 4'

Lab Sample ID: 880-56185-4

Date Collected: 03/28/25 09:30

Matrix: Solid

Date Received: 03/28/25 14:00

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		03/28/25 15:10	03/29/25 00:13	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		03/28/25 15:10	03/29/25 00:13	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		03/28/25 15:10	03/29/25 00:13	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		03/28/25 15:10	03/29/25 00:13	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		03/28/25 15:10	03/29/25 00:13	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg		03/28/25 15:10	03/29/25 00:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	03/28/25 15:10	03/29/25 00:13	1
1,4-Difluorobenzene (Surr)	89		70 - 130	03/28/25 15:10	03/29/25 00:13	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			03/29/25 00:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	49.9	15.1	mg/Kg			03/30/25 05:26	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		03/28/25 13:45	03/30/25 05:26	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.9	15.1	mg/Kg		03/28/25 13:45	03/30/25 05:26	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		03/28/25 13:45	03/30/25 05:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130	03/28/25 13:45	03/30/25 05:26	1
o-Terphenyl	109		70 - 130	03/28/25 13:45	03/30/25 05:26	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2700		49.7	1.96	mg/Kg			03/29/25 16:17	5

Client Sample ID: B-22 4'

Lab Sample ID: 880-56185-5

Date Collected: 03/28/25 09:40

Matrix: Solid

Date Received: 03/28/25 14:00

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		03/28/25 15:10	03/29/25 00:34	1
Toluene	<0.00198	U	0.00198	0.00198	mg/Kg		03/28/25 15:10	03/29/25 00:34	1
Ethylbenzene	<0.00108	U	0.00198	0.00108	mg/Kg		03/28/25 15:10	03/29/25 00:34	1
m-Xylene & p-Xylene	<0.00227	U	0.00397	0.00227	mg/Kg		03/28/25 15:10	03/29/25 00:34	1
o-Xylene	<0.00157	U	0.00198	0.00157	mg/Kg		03/28/25 15:10	03/29/25 00:34	1
Xylenes, Total	<0.00227	U	0.00397	0.00227	mg/Kg		03/28/25 15:10	03/29/25 00:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	03/28/25 15:10	03/29/25 00:34	1
1,4-Difluorobenzene (Surr)	89		70 - 130	03/28/25 15:10	03/29/25 00:34	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites

Job ID: 880-56185-1
SDG: Lea County nm

Client Sample ID: B-22 4'

Lab Sample ID: 880-56185-5

Date Collected: 03/28/25 09:40

Matrix: Solid

Date Received: 03/28/25 14:00

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00227	U	0.00397	0.00227	mg/Kg			03/29/25 00:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	50.0	15.1	mg/Kg			03/30/25 05:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		03/28/25 13:45	03/30/25 05:42	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		03/28/25 13:45	03/30/25 05:42	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		03/28/25 13:45	03/30/25 05:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130				03/28/25 13:45	03/30/25 05:42	1
o-Terphenyl	104		70 - 130				03/28/25 13:45	03/30/25 05:42	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	763		9.92	0.392	mg/Kg			03/29/25 16:25	1

Client Sample ID: B-23 4'

Lab Sample ID: 880-56185-6

Date Collected: 03/28/25 09:50

Matrix: Solid

Date Received: 03/28/25 14:00

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		03/28/25 15:10	03/29/25 00:54	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		03/28/25 15:10	03/29/25 00:54	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		03/28/25 15:10	03/29/25 00:54	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		03/28/25 15:10	03/29/25 00:54	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		03/28/25 15:10	03/29/25 00:54	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg		03/28/25 15:10	03/29/25 00:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				03/28/25 15:10	03/29/25 00:54	1
1,4-Difluorobenzene (Surr)	91		70 - 130				03/28/25 15:10	03/29/25 00:54	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00399	0.00228	mg/Kg			03/29/25 00:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	40.9	J	49.8	15.1	mg/Kg			03/30/25 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		03/28/25 13:45	03/30/25 05:57	1
Diesel Range Organics (Over C10-C28)	40.9	J	49.8	15.1	mg/Kg		03/28/25 13:45	03/30/25 05:57	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites

Job ID: 880-56185-1
SDG: Lea County nm

Client Sample ID: B-23 4'

Lab Sample ID: 880-56185-6

Date Collected: 03/28/25 09:50

Matrix: Solid

Date Received: 03/28/25 14:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		03/28/25 13:45	03/30/25 05:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130				03/28/25 13:45	03/30/25 05:57	1
o-Terphenyl	95		70 - 130				03/28/25 13:45	03/30/25 05:57	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2260		49.9	1.97	mg/Kg			03/29/25 16:46	5

Client Sample ID: B-24 4'

Lab Sample ID: 880-56185-7

Date Collected: 03/28/25 10:00

Matrix: Solid

Date Received: 03/28/25 14:00

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		03/28/25 15:10	03/29/25 01:15	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		03/28/25 15:10	03/29/25 01:15	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		03/28/25 15:10	03/29/25 01:15	1
m-Xylene & p-Xylene	<0.00229	U	0.00401	0.00229	mg/Kg		03/28/25 15:10	03/29/25 01:15	1
o-Xylene	<0.00159	U	0.00200	0.00159	mg/Kg		03/28/25 15:10	03/29/25 01:15	1
Xylenes, Total	<0.00229	U	0.00401	0.00229	mg/Kg		03/28/25 15:10	03/29/25 01:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				03/28/25 15:10	03/29/25 01:15	1
1,4-Difluorobenzene (Surr)	90		70 - 130				03/28/25 15:10	03/29/25 01:15	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00401	0.00229	mg/Kg			03/29/25 01:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	17.4	J	50.0	15.1	mg/Kg			03/30/25 06:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		03/28/25 13:45	03/30/25 06:14	1
Diesel Range Organics (Over C10-C28)	17.4	J	50.0	15.1	mg/Kg		03/28/25 13:45	03/30/25 06:14	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		03/28/25 13:45	03/30/25 06:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	311	S1+	70 - 130				03/28/25 13:45	03/30/25 06:14	1
o-Terphenyl	322	S1+	70 - 130				03/28/25 13:45	03/30/25 06:14	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	821		10.1	0.398	mg/Kg			03/29/25 16:53	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites

Job ID: 880-56185-1
SDG: Lea County nm

Client Sample ID: B-25 4'

Lab Sample ID: 880-56185-8

Date Collected: 03/28/25 10:10

Matrix: Solid

Date Received: 03/28/25 14:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00140	U	0.00202	0.00140	mg/Kg		03/28/25 15:10	03/29/25 01:35	1
Toluene	<0.00202	U	0.00202	0.00202	mg/Kg		03/28/25 15:10	03/29/25 01:35	1
Ethylbenzene	<0.00110	U	0.00202	0.00110	mg/Kg		03/28/25 15:10	03/29/25 01:35	1
m-Xylene & p-Xylene	<0.00230	U	0.00403	0.00230	mg/Kg		03/28/25 15:10	03/29/25 01:35	1
o-Xylene	<0.00160	U	0.00202	0.00160	mg/Kg		03/28/25 15:10	03/29/25 01:35	1
Xylenes, Total	<0.00230	U	0.00403	0.00230	mg/Kg		03/28/25 15:10	03/29/25 01:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				03/28/25 15:10	03/29/25 01:35	1
1,4-Difluorobenzene (Surr)	88		70 - 130				03/28/25 15:10	03/29/25 01:35	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00230	U	0.00403	0.00230	mg/Kg			03/29/25 01:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	49.9	15.1	mg/Kg			03/30/25 06:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.9	14.5	mg/Kg		03/28/25 13:45	03/30/25 06:30	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.9	15.1	mg/Kg		03/28/25 13:45	03/30/25 06:30	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		03/28/25 13:45	03/30/25 06:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130				03/28/25 13:45	03/30/25 06:30	1
o-Terphenyl	115		70 - 130				03/28/25 13:45	03/30/25 06:30	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	576		10.0	0.397	mg/Kg			03/29/25 17:15	1

Client Sample ID: B-26 4'

Lab Sample ID: 880-56185-9

Date Collected: 03/28/25 10:20

Matrix: Solid

Date Received: 03/28/25 14:00

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		03/28/25 15:10	03/29/25 01:56	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		03/28/25 15:10	03/29/25 01:56	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		03/28/25 15:10	03/29/25 01:56	1
m-Xylene & p-Xylene	<0.00228	U	0.00399	0.00228	mg/Kg		03/28/25 15:10	03/29/25 01:56	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		03/28/25 15:10	03/29/25 01:56	1
Xylenes, Total	<0.00228	U	0.00399	0.00228	mg/Kg		03/28/25 15:10	03/29/25 01:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				03/28/25 15:10	03/29/25 01:56	1
1,4-Difluorobenzene (Surr)	90		70 - 130				03/28/25 15:10	03/29/25 01:56	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites

Job ID: 880-56185-1
SDG: Lea County nm

Client Sample ID: B-26 4'

Lab Sample ID: 880-56185-9

Date Collected: 03/28/25 10:20

Matrix: Solid

Date Received: 03/28/25 14:00

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			03/29/25 01:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	50.0	15.1	mg/Kg			03/30/25 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	<14.5	U	50.0	14.5	mg/Kg		03/28/25 13:45	03/30/25 06:45	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		03/28/25 13:45	03/30/25 06:45	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		03/28/25 13:45	03/30/25 06:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130				03/28/25 13:45	03/30/25 06:45	1
o-Terphenyl	104		70 - 130				03/28/25 13:45	03/30/25 06:45	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	697		10.0	0.395	mg/Kg			03/29/25 17:22	1

Surrogate Summary

Client: Arcadis US Inc.
Project/Site: NM Sites

Job ID: 880-56185-1
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)
880-56185-4	B-21 4'	108	89
880-56185-5	B-22 4'	105	89
880-56185-6	B-23 4'	110	91
880-56185-7	B-24 4'	107	90
880-56185-8	B-25 4'	109	88
880-56185-9	B-26 4'	108	90
LCS 880-106364/1-A	Lab Control Sample	101	93
LCSD 880-106364/2-A	Lab Control Sample Dup	102	94
MB 880-106307/5-A	Method Blank	106	83
MB 880-106364/5-A	Method Blank	95	85
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)
880-56185-4	B-21 4'	102	109
880-56185-5	B-22 4'	101	104
880-56185-6	B-23 4'	91	95
880-56185-7	B-24 4'	311 S1+	322 S1+
880-56185-8	B-25 4'	110	115
880-56185-9	B-26 4'	100	104
LCS 880-106354/2-A	Lab Control Sample	104	119
LCSD 880-106354/3-A	Lab Control Sample Dup	101	115
MB 880-106354/1-A	Method Blank	134 S1+	138 S1+
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites

Job ID: 880-56185-1
SDG: Lea County nm

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-106307/5-A

Matrix: Solid

Analysis Batch: 106301

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 106307

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		03/28/25 09:15	03/28/25 11:51	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		03/28/25 09:15	03/28/25 11:51	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		03/28/25 09:15	03/28/25 11:51	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		03/28/25 09:15	03/28/25 11:51	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		03/28/25 09:15	03/28/25 11:51	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		03/28/25 09:15	03/28/25 11:51	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	03/28/25 09:15	03/28/25 11:51	1
1,4-Difluorobenzene (Surr)	83		70 - 130	03/28/25 09:15	03/28/25 11:51	1

Lab Sample ID: MB 880-106364/5-A

Matrix: Solid

Analysis Batch: 106301

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 106364

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		03/28/25 15:10	03/28/25 22:50	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		03/28/25 15:10	03/28/25 22:50	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		03/28/25 15:10	03/28/25 22:50	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		03/28/25 15:10	03/28/25 22:50	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		03/28/25 15:10	03/28/25 22:50	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		03/28/25 15:10	03/28/25 22:50	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	03/28/25 15:10	03/28/25 22:50	1
1,4-Difluorobenzene (Surr)	85		70 - 130	03/28/25 15:10	03/28/25 22:50	1

Lab Sample ID: LCS 880-106364/1-A

Matrix: Solid

Analysis Batch: 106301

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 106364

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08567		mg/Kg		86	70 - 130
Toluene	0.100	0.07562		mg/Kg		76	70 - 130
Ethylbenzene	0.100	0.07896		mg/Kg		79	70 - 130
m-Xylene & p-Xylene	0.200	0.1683		mg/Kg		84	70 - 130
o-Xylene	0.100	0.08620		mg/Kg		86	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: LCSD 880-106364/2-A

Matrix: Solid

Analysis Batch: 106301

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 106364

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09394		mg/Kg		94	70 - 130	9	35

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites

Job ID: 880-56185-1
SDG: Lea County nm

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

Lab Sample ID: LCSD 880-106364/2-A

Matrix: Solid

Analysis Batch: 106301

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 106364

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.08332		mg/Kg		83	70 - 130	10	35
Ethylbenzene	0.100	0.08661		mg/Kg		87	70 - 130	9	35
m-Xylene & p-Xylene	0.200	0.1836		mg/Kg		92	70 - 130	9	35
o-Xylene	0.100	0.09378		mg/Kg		94	70 - 130	8	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

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

Lab Sample ID: MB 880-106354/1-A

Matrix: Solid

Analysis Batch: 106417

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 106354

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		03/28/25 13:37	03/30/25 00:40	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		03/28/25 13:37	03/30/25 00:40	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		03/28/25 13:37	03/30/25 00:40	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	134	S1+	70 - 130	03/28/25 13:37	03/30/25 00:40	1
o-Terphenyl	138	S1+	70 - 130	03/28/25 13:37	03/30/25 00:40	1

Lab Sample ID: LCS 880-106354/2-A

Matrix: Solid

Analysis Batch: 106417

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 106354

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	875.7		mg/Kg		88	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1057		mg/Kg		106	70 - 130

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

Lab Sample ID: LCSD 880-106354/3-A

Matrix: Solid

Analysis Batch: 106417

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 106354

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	848.9		mg/Kg		85	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	1000	1014		mg/Kg		101	70 - 130	4	20

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites

Job ID: 880-56185-1
SDG: Lea County nm

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

Lab Sample ID: LCSD 880-106354/3-A
Matrix: Solid
Analysis Batch: 106417

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 106354

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane	101		70 - 130
o-Terphenyl	115		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-106358/1-A
Matrix: Solid
Analysis Batch: 106413

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	<0.395	U	10.0	0.395	mg/Kg			03/29/25 14:33	1

Lab Sample ID: LCS 880-106358/2-A
Matrix: Solid
Analysis Batch: 106413

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Chloride	250	256.0		mg/Kg		102	90 - 110		

Lab Sample ID: LCSD 880-106358/3-A
Matrix: Solid
Analysis Batch: 106413

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Chloride	250	256.9		mg/Kg		103	90 - 110	0	20

Lab Sample ID: 880-56185-5 MS
Matrix: Solid
Analysis Batch: 106413

Client Sample ID: B-22 4'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Chloride	763		248	1022		mg/Kg		105	90 - 110		

Lab Sample ID: 880-56185-5 MSD
Matrix: Solid
Analysis Batch: 106413

Client Sample ID: B-22 4'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Chloride	763		248	1013		mg/Kg		101	90 - 110	1	20

QC Association Summary

Client: Arcadis US Inc.
Project/Site: NM Sites

Job ID: 880-56185-1
SDG: Lea County nm

GC VOA

Analysis Batch: 106301

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-56185-4	B-21 4'	Total/NA	Solid	8021B	106364
880-56185-5	B-22 4'	Total/NA	Solid	8021B	106364
880-56185-6	B-23 4'	Total/NA	Solid	8021B	106364
880-56185-7	B-24 4'	Total/NA	Solid	8021B	106364
880-56185-8	B-25 4'	Total/NA	Solid	8021B	106364
880-56185-9	B-26 4'	Total/NA	Solid	8021B	106364
MB 880-106307/5-A	Method Blank	Total/NA	Solid	8021B	106307
MB 880-106364/5-A	Method Blank	Total/NA	Solid	8021B	106364
LCS 880-106364/1-A	Lab Control Sample	Total/NA	Solid	8021B	106364
LCSD 880-106364/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	106364

Prep Batch: 106307

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-106307/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 106364

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-56185-4	B-21 4'	Total/NA	Solid	5030B	
880-56185-5	B-22 4'	Total/NA	Solid	5030B	
880-56185-6	B-23 4'	Total/NA	Solid	5030B	
880-56185-7	B-24 4'	Total/NA	Solid	5030B	
880-56185-8	B-25 4'	Total/NA	Solid	5030B	
880-56185-9	B-26 4'	Total/NA	Solid	5030B	
MB 880-106364/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-106364/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-106364/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	

Analysis Batch: 106568

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-56185-4	B-21 4'	Total/NA	Solid	Total BTEX	
880-56185-5	B-22 4'	Total/NA	Solid	Total BTEX	
880-56185-6	B-23 4'	Total/NA	Solid	Total BTEX	
880-56185-7	B-24 4'	Total/NA	Solid	Total BTEX	
880-56185-8	B-25 4'	Total/NA	Solid	Total BTEX	
880-56185-9	B-26 4'	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 106354

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-56185-4	B-21 4'	Total/NA	Solid	8015NM Prep	
880-56185-5	B-22 4'	Total/NA	Solid	8015NM Prep	
880-56185-6	B-23 4'	Total/NA	Solid	8015NM Prep	
880-56185-7	B-24 4'	Total/NA	Solid	8015NM Prep	
880-56185-8	B-25 4'	Total/NA	Solid	8015NM Prep	
880-56185-9	B-26 4'	Total/NA	Solid	8015NM Prep	
MB 880-106354/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-106354/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-106354/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Arcadis US Inc.
Project/Site: NM Sites

Job ID: 880-56185-1
SDG: Lea County nm

GC Semi VOA

Analysis Batch: 106417

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-56185-4	B-21 4'	Total/NA	Solid	8015B NM	106354
880-56185-5	B-22 4'	Total/NA	Solid	8015B NM	106354
880-56185-6	B-23 4'	Total/NA	Solid	8015B NM	106354
880-56185-7	B-24 4'	Total/NA	Solid	8015B NM	106354
880-56185-8	B-25 4'	Total/NA	Solid	8015B NM	106354
880-56185-9	B-26 4'	Total/NA	Solid	8015B NM	106354
MB 880-106354/1-A	Method Blank	Total/NA	Solid	8015B NM	106354
LCS 880-106354/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	106354
LCSD 880-106354/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	106354

Analysis Batch: 106511

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-56185-4	B-21 4'	Total/NA	Solid	8015 NM	
880-56185-5	B-22 4'	Total/NA	Solid	8015 NM	
880-56185-6	B-23 4'	Total/NA	Solid	8015 NM	
880-56185-7	B-24 4'	Total/NA	Solid	8015 NM	
880-56185-8	B-25 4'	Total/NA	Solid	8015 NM	
880-56185-9	B-26 4'	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 106358

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-56185-4	B-21 4'	Soluble	Solid	DI Leach	
880-56185-5	B-22 4'	Soluble	Solid	DI Leach	
880-56185-6	B-23 4'	Soluble	Solid	DI Leach	
880-56185-7	B-24 4'	Soluble	Solid	DI Leach	
880-56185-8	B-25 4'	Soluble	Solid	DI Leach	
880-56185-9	B-26 4'	Soluble	Solid	DI Leach	
MB 880-106358/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-106358/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-106358/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-56185-5 MS	B-22 4'	Soluble	Solid	DI Leach	
880-56185-5 MSD	B-22 4'	Soluble	Solid	DI Leach	

Analysis Batch: 106413

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-56185-4	B-21 4'	Soluble	Solid	300.0	106358
880-56185-5	B-22 4'	Soluble	Solid	300.0	106358
880-56185-6	B-23 4'	Soluble	Solid	300.0	106358
880-56185-7	B-24 4'	Soluble	Solid	300.0	106358
880-56185-8	B-25 4'	Soluble	Solid	300.0	106358
880-56185-9	B-26 4'	Soluble	Solid	300.0	106358
MB 880-106358/1-A	Method Blank	Soluble	Solid	300.0	106358
LCS 880-106358/2-A	Lab Control Sample	Soluble	Solid	300.0	106358
LCSD 880-106358/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	106358
880-56185-5 MS	B-22 4'	Soluble	Solid	300.0	106358
880-56185-5 MSD	B-22 4'	Soluble	Solid	300.0	106358

Eurofins Midland

Lab Chronicle

Client: Arcadis US Inc.
Project/Site: NM Sites

Job ID: 880-56185-1
SDG: Lea County nm

Client Sample ID: B-21 4'
Date Collected: 03/28/25 09:30
Date Received: 03/28/25 14:00

Lab Sample ID: 880-56185-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.01 g	5 mL	106364	03/28/25 15:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	106301	03/29/25 00:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			106568	03/29/25 00:13	AJ	EET MID
Total/NA	Analysis	8015 NM		1			106511	03/30/25 05:26	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	106354	03/28/25 13:45	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	106417	03/30/25 05:26	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	106358	03/28/25 16:30	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	106413	03/29/25 16:17	CH	EET MID

Client Sample ID: B-22 4'
Date Collected: 03/28/25 09:40
Date Received: 03/28/25 14:00

Lab Sample ID: 880-56185-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.04 g	5 mL	106364	03/28/25 15:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	106301	03/29/25 00:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			106568	03/29/25 00:34	AJ	EET MID
Total/NA	Analysis	8015 NM		1			106511	03/30/25 05:42	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	106354	03/28/25 13:45	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	106417	03/30/25 05:42	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	106358	03/28/25 16:30	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	106413	03/29/25 16:25	CH	EET MID

Client Sample ID: B-23 4'
Date Collected: 03/28/25 09:50
Date Received: 03/28/25 14:00

Lab Sample ID: 880-56185-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.01 g	5 mL	106364	03/28/25 15:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	106301	03/29/25 00:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			106568	03/29/25 00:54	AJ	EET MID
Total/NA	Analysis	8015 NM		1			106511	03/30/25 05:57	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	106354	03/28/25 13:45	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	106417	03/30/25 05:57	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	106358	03/28/25 16:30	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	106413	03/29/25 16:46	CH	EET MID

Client Sample ID: B-24 4'
Date Collected: 03/28/25 10:00
Date Received: 03/28/25 14:00

Lab Sample ID: 880-56185-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.99 g	5 mL	106364	03/28/25 15:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	106301	03/29/25 01:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			106568	03/29/25 01:15	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: Arcadis US Inc.
Project/Site: NM Sites

Job ID: 880-56185-1
SDG: Lea County nm

Client Sample ID: B-24 4'

Lab Sample ID: 880-56185-7

Date Collected: 03/28/25 10:00

Matrix: Solid

Date Received: 03/28/25 14:00

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			106511	03/30/25 06:14	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	106354	03/28/25 13:45	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	106417	03/30/25 06:14	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	106358	03/28/25 16:30	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	106413	03/29/25 16:53	CH	EET MID

Client Sample ID: B-25 4'

Lab Sample ID: 880-56185-8

Date Collected: 03/28/25 10:10

Matrix: Solid

Date Received: 03/28/25 14:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.96 g	5 mL	106364	03/28/25 15:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	106301	03/29/25 01:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			106568	03/29/25 01:35	AJ	EET MID
Total/NA	Analysis	8015 NM		1			106511	03/30/25 06:30	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	106354	03/28/25 13:45	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	106417	03/30/25 06:30	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	106358	03/28/25 16:30	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	106413	03/29/25 17:15	CH	EET MID

Client Sample ID: B-26 4'

Lab Sample ID: 880-56185-9

Date Collected: 03/28/25 10:20

Matrix: Solid

Date Received: 03/28/25 14:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.01 g	5 mL	106364	03/28/25 15:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	106301	03/29/25 01:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			106568	03/29/25 01:56	AJ	EET MID
Total/NA	Analysis	8015 NM		1			106511	03/30/25 06:45	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	106354	03/28/25 13:45	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	106417	03/30/25 06:45	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	106358	03/28/25 16:30	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	106413	03/29/25 17:22	CH	EET MID

Laboratory References:

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

Eurofins Midland

Accreditation/Certification Summary

Client: Arcadis US Inc.
Project/Site: NM Sites

Job ID: 880-56185-1
SDG: Lea County nm

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Arcadis US Inc.
Project/Site: NM Sites

Job ID: 880-56185-1
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
5030B	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: Arcadis US Inc.
Project/Site: NM Sites

Job ID: 880-56185-1
SDG: Lea County nm

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-56185-4	B-21 4'	Solid	03/28/25 09:30	03/28/25 14:00
880-56185-5	B-22 4'	Solid	03/28/25 09:40	03/28/25 14:00
880-56185-6	B-23 4'	Solid	03/28/25 09:50	03/28/25 14:00
880-56185-7	B-24 4'	Solid	03/28/25 10:00	03/28/25 14:00
880-56185-8	B-25 4'	Solid	03/28/25 10:10	03/28/25 14:00
880-56185-9	B-26 4'	Solid	03/28/25 10:20	03/28/25 14:00

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

Eurofins Midland

1211 W. Florida Ave
Midland, TX 79701
Phone: 432-704-5440

Chain of Custody Record



Environment Testing

Client Information		Sampler: <u>Heath Boyd</u>		Lab PM: <u>Builes, John</u>	Carrier Tracking No(s):	COC No: 880-11167-1628.2
Client Contact: <u>Mr. Morgan Jordan</u>		Phone: <u>575-942-0292</u>		E-Mail: <u>John.Builes@et.eurofins.com</u>	State of Origin: <u>NM</u>	Page: <u>2 of 14</u>
Company: <u>Arcadis US Inc.</u>		PWSD:		Analysis Request		
Address: <u>1004 North Big Spring Suite 300</u>		Due Date Requested:		880-56185 Chain of Custody		
City: <u>Midland</u>		TAT Requested (days):				
State/Zip: <u>TX, 79701</u>		Compliance Project: <u>Δ Yes Δ No</u>				
Phone: <u>281-644-9437 (Tel)</u>		PO #: <u>30237098-00004</u>				
Email: <u>douglas.jordan@arcadis.com</u>		Purchase Order Requested				
Project Name: <u>NM Sites</u>		WO #: <u>88002020</u>				
Site: <u>Lea County, NM</u>		Project #: <u>88002020</u>				
SSOW#:		Sample Date		Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=soil, BT=tissue, A=air)
Sample Identification		Sample Date	Sample Time	Sample Type	Matrix	Preservation Code
<u>SW-1-Ø-4'</u>	<u>3/28/25</u>	<u>900</u>	<u>C</u>	<u>Solid</u>	<u>Solid</u>	<u>300 ORGFM, 28D, 8015MOD, NM, 8021B</u>
<u>SW-2-Ø-4'</u>		<u>910</u>		<u>Solid</u>	<u>Solid</u>	<u>24 hr. flush on</u>
<u>SW-5-Ø-4'</u>		<u>920</u>		<u>Solid</u>	<u>Solid</u>	<u>SW-1, 2, 4, 5, 3</u>
<u>B-21-4'</u>		<u>930</u>		<u>Solid</u>	<u>Solid</u>	<u>3-Day on B-21</u>
<u>B-22-4'</u>		<u>940</u>		<u>Solid</u>	<u>Solid</u>	<u>through B-26</u>
<u>B-23-4'</u>		<u>950</u>		<u>Solid</u>	<u>Solid</u>	
<u>B-24-4'</u>		<u>1000</u>		<u>Solid</u>	<u>Solid</u>	
<u>B-25-4'</u>		<u>1010</u>		<u>Solid</u>	<u>Solid</u>	
<u>B-26-4'</u>	<u>X</u>	<u>1020</u>		<u>Solid</u>	<u>Solid</u>	
<u>SW-4-Ø-4'</u>	<u>3/28/25</u>	<u>1100</u>	<u>X</u>	<u>Solid</u>	<u>Solid</u>	
<u>SW-3-Ø-4'</u>	<u>3/28/25</u>	<u>1105</u>	<u>C</u>	<u>Solid</u>	<u>Solid</u>	
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological						
Deliverable Requested: I, II, III, IV, Other (specify)						
Empty Kit Relinquished by:						
Relinquished by: <u>[Signature]</u>		Date: <u>3/28/25</u>		Time: <u>1400</u>		Company: <u>Arcadis</u>
Relinquished by:		Date/Time:		Date/Time:		Company:
Relinquished by:		Date/Time:		Date/Time:		Company:
Custody Seals Intact: <u>Δ Yes Δ No</u>		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: <u>4.4/4.3</u>		

Login Sample Receipt Checklist

Client: Arcadis US Inc.

Job Number: 880-56185-1

SDG Number: Lea County nm

Login Number: 56185

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.	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	

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

Eurofins Midland



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Morgan Jordan
Arcadis US Inc.
1004 North Big Spring
Suite 300
Midland, Texas 79701

Generated 3/31/2025 4:19:15 PM

JOB DESCRIPTION

NM Sites
Lea County nm

JOB NUMBER

880-56185-2

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
3/31/2025 4:19:15 PM

Authorized for release by
John Builes, Project Manager
John.Builes@et.eurofinsus.com
(561)558-4549

Client: Arcadis US Inc.
Project/Site: NM Sites

Laboratory Job ID: 880-56185-2
SDG: Lea County nm

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Definitions/Glossary

Client: Arcadis US Inc.
Project/Site: NM Sites

Job ID: 880-56185-2
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.
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: Arcadis US Inc.
Project: NM Sites

Job ID: 880-56185-2

Job ID: 880-56185-2

Eurofins Midland

Job Narrative 880-56185-2

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 3/28/2025 2:00 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 4.3°C.

GC VOA

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

Diesel Range Organics

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-106354 and analytical batch 880-106417 was outside the upper control limits.

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

HPLC/IC

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

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites

Job ID: 880-56185-2
SDG: Lea County nm

Client Sample ID: SW-1 0-4'

Lab Sample ID: 880-56185-1

Date Collected: 03/28/25 09:00

Matrix: Solid

Date Received: 03/28/25 14:00

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		03/28/25 15:10	03/28/25 23:12	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		03/28/25 15:10	03/28/25 23:12	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		03/28/25 15:10	03/28/25 23:12	1
m-Xylene & p-Xylene	<0.00229	U	0.00401	0.00229	mg/Kg		03/28/25 15:10	03/28/25 23:12	1
o-Xylene	<0.00159	U	0.00200	0.00159	mg/Kg		03/28/25 15:10	03/28/25 23:12	1
Xylenes, Total	<0.00229	U	0.00401	0.00229	mg/Kg		03/28/25 15:10	03/28/25 23:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				03/28/25 15:10	03/28/25 23:12	1
1,4-Difluorobenzene (Surr)	90		70 - 130				03/28/25 15:10	03/28/25 23:12	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00401	0.00229	mg/Kg			03/28/25 23:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	24.6	J	50.0	15.1	mg/Kg			03/30/25 04:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		03/28/25 13:45	03/30/25 04:23	1
Diesel Range Organics (Over C10-C28)	24.6	J	50.0	15.1	mg/Kg		03/28/25 13:45	03/30/25 04:23	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		03/28/25 13:45	03/30/25 04:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130				03/28/25 13:45	03/30/25 04:23	1
o-Terphenyl	106		70 - 130				03/28/25 13:45	03/30/25 04:23	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	253		10.0	0.397	mg/Kg			03/29/25 15:27	1

Client Sample ID: SW-2 0-4'

Lab Sample ID: 880-56185-2

Date Collected: 03/28/25 09:10

Matrix: Solid

Date Received: 03/28/25 14:00

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		03/28/25 15:10	03/28/25 23:32	1
Toluene	<0.00198	U	0.00198	0.00198	mg/Kg		03/28/25 15:10	03/28/25 23:32	1
Ethylbenzene	<0.00108	U	0.00198	0.00108	mg/Kg		03/28/25 15:10	03/28/25 23:32	1
m-Xylene & p-Xylene	<0.00226	U	0.00396	0.00226	mg/Kg		03/28/25 15:10	03/28/25 23:32	1
o-Xylene	<0.00157	U	0.00198	0.00157	mg/Kg		03/28/25 15:10	03/28/25 23:32	1
Xylenes, Total	<0.00226	U	0.00396	0.00226	mg/Kg		03/28/25 15:10	03/28/25 23:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				03/28/25 15:10	03/28/25 23:32	1
1,4-Difluorobenzene (Surr)	92		70 - 130				03/28/25 15:10	03/28/25 23:32	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites

Job ID: 880-56185-2
SDG: Lea County nm

Client Sample ID: SW-2 0-4'

Lab Sample ID: 880-56185-2

Date Collected: 03/28/25 09:10

Matrix: Solid

Date Received: 03/28/25 14:00

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			03/28/25 23:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	49.8	15.1	mg/Kg			03/30/25 04:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.8	14.5	mg/Kg		03/28/25 13:45	03/30/25 04:54	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.8	15.1	mg/Kg		03/28/25 13:45	03/30/25 04:54	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		03/28/25 13:45	03/30/25 04:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130				03/28/25 13:45	03/30/25 04:54	1
o-Terphenyl	106		70 - 130				03/28/25 13:45	03/30/25 04:54	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	505		10.1	0.399	mg/Kg			03/29/25 15:49	1

Client Sample ID: SW-5 0-4'

Lab Sample ID: 880-56185-3

Date Collected: 03/28/25 09:20

Matrix: Solid

Date Received: 03/28/25 14:00

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		03/28/25 15:10	03/28/25 23:53	1
Toluene	<0.00199	U	0.00199	0.00199	mg/Kg		03/28/25 15:10	03/28/25 23:53	1
Ethylbenzene	<0.00108	U	0.00199	0.00108	mg/Kg		03/28/25 15:10	03/28/25 23:53	1
m-Xylene & p-Xylene	<0.00227	U	0.00398	0.00227	mg/Kg		03/28/25 15:10	03/28/25 23:53	1
o-Xylene	<0.00157	U	0.00199	0.00157	mg/Kg		03/28/25 15:10	03/28/25 23:53	1
Xylenes, Total	<0.00227	U	0.00398	0.00227	mg/Kg		03/28/25 15:10	03/28/25 23:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130				03/28/25 15:10	03/28/25 23:53	1
1,4-Difluorobenzene (Surr)	89		70 - 130				03/28/25 15:10	03/28/25 23:53	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			03/28/25 23:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	19.1	J	49.9	15.1	mg/Kg			03/30/25 05:10	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	49.9	14.5	mg/Kg		03/28/25 13:45	03/30/25 05:10	1
Diesel Range Organics (Over C10-C28)	19.1	J	49.9	15.1	mg/Kg		03/28/25 13:45	03/30/25 05:10	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites

Job ID: 880-56185-2
SDG: Lea County nm

Client Sample ID: SW-5 0-4'

Lab Sample ID: 880-56185-3

Date Collected: 03/28/25 09:20

Matrix: Solid

Date Received: 03/28/25 14:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<15.1	U	49.9	15.1	mg/Kg		03/28/25 13:45	03/30/25 05:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				03/28/25 13:45	03/30/25 05:10	1
o-Terphenyl	113		70 - 130				03/28/25 13:45	03/30/25 05:10	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	224		10.1	0.397	mg/Kg			03/29/25 15:56	1

Client Sample ID: SW-4 0-4'

Lab Sample ID: 880-56185-10

Date Collected: 03/28/25 11:00

Matrix: Solid

Date Received: 03/28/25 14:00

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		03/28/25 15:10	03/29/25 02:16	1
Toluene	<0.00198	U	0.00198	0.00198	mg/Kg		03/28/25 15:10	03/29/25 02:16	1
Ethylbenzene	<0.00108	U	0.00198	0.00108	mg/Kg		03/28/25 15:10	03/29/25 02:16	1
m-Xylene & p-Xylene	<0.00226	U	0.00396	0.00226	mg/Kg		03/28/25 15:10	03/29/25 02:16	1
o-Xylene	<0.00157	U	0.00198	0.00157	mg/Kg		03/28/25 15:10	03/29/25 02:16	1
Xylenes, Total	<0.00226	U	0.00396	0.00226	mg/Kg		03/28/25 15:10	03/29/25 02:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				03/28/25 15:10	03/29/25 02:16	1
1,4-Difluorobenzene (Surr)	85		70 - 130				03/28/25 15:10	03/29/25 02:16	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00226	U	0.00396	0.00226	mg/Kg			03/29/25 02:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	49.8	15.1	mg/Kg			03/30/25 07:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.8	14.5	mg/Kg		03/28/25 13:45	03/30/25 07:01	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.8	15.1	mg/Kg		03/28/25 13:45	03/30/25 07:01	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		03/28/25 13:45	03/30/25 07:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				03/28/25 13:45	03/30/25 07:01	1
o-Terphenyl	109		70 - 130				03/28/25 13:45	03/30/25 07:01	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	150		9.94	0.393	mg/Kg			03/29/25 16:03	1

Eurofins Midland

Client Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites

Job ID: 880-56185-2
SDG: Lea County nm

Client Sample ID: SW-3 0-4'

Lab Sample ID: 880-56185-11

Date Collected: 03/28/25 11:05

Matrix: Solid

Date Received: 03/28/25 14:00

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		03/28/25 15:10	03/29/25 03:51	1
Toluene	<0.00198	U	0.00198	0.00198	mg/Kg		03/28/25 15:10	03/29/25 03:51	1
Ethylbenzene	<0.00108	U	0.00198	0.00108	mg/Kg		03/28/25 15:10	03/29/25 03:51	1
m-Xylene & p-Xylene	<0.00226	U	0.00396	0.00226	mg/Kg		03/28/25 15:10	03/29/25 03:51	1
o-Xylene	<0.00157	U	0.00198	0.00157	mg/Kg		03/28/25 15:10	03/29/25 03:51	1
Xylenes, Total	<0.00226	U	0.00396	0.00226	mg/Kg		03/28/25 15:10	03/29/25 03:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	03/28/25 15:10	03/29/25 03:51	1
1,4-Difluorobenzene (Surr)	91		70 - 130	03/28/25 15:10	03/29/25 03:51	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			03/29/25 03:51	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			03/30/25 07:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	49.8	14.5	mg/Kg		03/28/25 13:45	03/30/25 07:17	1
Diesel Range Organics (Over C10-C28)	<15.1	U	49.8	15.1	mg/Kg		03/28/25 13:45	03/30/25 07:17	1
Oil Range Organics (Over C28-C36)	<15.1	U	49.8	15.1	mg/Kg		03/28/25 13:45	03/30/25 07:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130	03/28/25 13:45	03/30/25 07:17	1
o-Terphenyl	118		70 - 130	03/28/25 13:45	03/30/25 07:17	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	182		10.1	0.397	mg/Kg			03/29/25 16:10	1

Surrogate Summary

Client: Arcadis US Inc.
Project/Site: NM Sites

Job ID: 880-56185-2
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)
880-56185-1	SW-1 0-4'	109	90
880-56185-1 MS	SW-1 0-4'	101	94
880-56185-1 MSD	SW-1 0-4'	112	90
880-56185-2	SW-2 0-4'	108	92
880-56185-3	SW-5 0-4'	111	89
880-56185-10	SW-4 0-4'	107	85
880-56185-11	SW-3 0-4'	106	91
LCS 880-106364/1-A	Lab Control Sample	101	93
LCSD 880-106364/2-A	Lab Control Sample Dup	102	94
MB 880-106307/5-A	Method Blank	106	83
MB 880-106364/5-A	Method Blank	95	85
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)
880-56185-1	SW-1 0-4'	100	106
880-56185-2	SW-2 0-4'	101	106
880-56185-3	SW-5 0-4'	106	113
880-56185-10	SW-4 0-4'	106	109
880-56185-11	SW-3 0-4'	113	118
LCS 880-106354/2-A	Lab Control Sample	104	119
LCSD 880-106354/3-A	Lab Control Sample Dup	101	115
MB 880-106354/1-A	Method Blank	134 S1+	138 S1+
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites

Job ID: 880-56185-2
SDG: Lea County nm

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-106307/5-A

Matrix: Solid

Analysis Batch: 106301

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 106307

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		03/28/25 09:15	03/28/25 11:51	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		03/28/25 09:15	03/28/25 11:51	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		03/28/25 09:15	03/28/25 11:51	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		03/28/25 09:15	03/28/25 11:51	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		03/28/25 09:15	03/28/25 11:51	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		03/28/25 09:15	03/28/25 11:51	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	03/28/25 09:15	03/28/25 11:51	1
1,4-Difluorobenzene (Surr)	83		70 - 130	03/28/25 09:15	03/28/25 11:51	1

Lab Sample ID: MB 880-106364/5-A

Matrix: Solid

Analysis Batch: 106301

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 106364

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		03/28/25 15:10	03/28/25 22:50	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		03/28/25 15:10	03/28/25 22:50	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		03/28/25 15:10	03/28/25 22:50	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		03/28/25 15:10	03/28/25 22:50	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		03/28/25 15:10	03/28/25 22:50	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		03/28/25 15:10	03/28/25 22:50	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	03/28/25 15:10	03/28/25 22:50	1
1,4-Difluorobenzene (Surr)	85		70 - 130	03/28/25 15:10	03/28/25 22:50	1

Lab Sample ID: LCS 880-106364/1-A

Matrix: Solid

Analysis Batch: 106301

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 106364

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08567		mg/Kg		86	70 - 130
Toluene	0.100	0.07562		mg/Kg		76	70 - 130
Ethylbenzene	0.100	0.07896		mg/Kg		79	70 - 130
m-Xylene & p-Xylene	0.200	0.1683		mg/Kg		84	70 - 130
o-Xylene	0.100	0.08620		mg/Kg		86	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: LCSD 880-106364/2-A

Matrix: Solid

Analysis Batch: 106301

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 106364

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09394		mg/Kg		94	70 - 130	9	35

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites

Job ID: 880-56185-2
SDG: Lea County nm

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

Lab Sample ID: LCSD 880-106364/2-A

Matrix: Solid

Analysis Batch: 106301

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 106364

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.08332		mg/Kg		83	70 - 130	10	35
Ethylbenzene	0.100	0.08661		mg/Kg		87	70 - 130	9	35
m-Xylene & p-Xylene	0.200	0.1836		mg/Kg		92	70 - 130	9	35
o-Xylene	0.100	0.09378		mg/Kg		94	70 - 130	8	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: 880-56185-1 MS

Matrix: Solid

Analysis Batch: 106301

Client Sample ID: SW-1 0-4'

Prep Type: Total/NA

Prep Batch: 106364

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00139	U	0.100	0.08923		mg/Kg		89	70 - 130
Toluene	<0.00200	U	0.100	0.07686		mg/Kg		77	70 - 130
Ethylbenzene	<0.00109	U	0.100	0.07742		mg/Kg		77	70 - 130
m-Xylene & p-Xylene	<0.00229	U	0.200	0.1615		mg/Kg		81	70 - 130
o-Xylene	<0.00159	U	0.100	0.08135		mg/Kg		81	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: 880-56185-1 MSD

Matrix: Solid

Analysis Batch: 106301

Client Sample ID: SW-1 0-4'

Prep Type: Total/NA

Prep Batch: 106364

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	0.09067		mg/Kg		91	70 - 130	2	35
Toluene	<0.00200	U	0.100	0.07949		mg/Kg		79	70 - 130	3	35
Ethylbenzene	<0.00109	U	0.100	0.08060		mg/Kg		81	70 - 130	4	35
m-Xylene & p-Xylene	<0.00229	U	0.200	0.1699		mg/Kg		85	70 - 130	5	35
o-Xylene	<0.00159	U	0.100	0.08532		mg/Kg		85	70 - 130	5	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	90		70 - 130

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

Lab Sample ID: MB 880-106354/1-A

Matrix: Solid

Analysis Batch: 106417

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 106354

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		03/28/25 13:37	03/30/25 00:40	1

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites

Job ID: 880-56185-2
SDG: Lea County nm

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

Lab Sample ID: MB 880-106354/1-A

Matrix: Solid

Analysis Batch: 106417

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 106354

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		03/28/25 13:37	03/30/25 00:40	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		03/28/25 13:37	03/30/25 00:40	1
Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac			
	%Recovery	Qualifier							
1-Chlorooctane	134	S1+	70 - 130	03/28/25 13:37	03/30/25 00:40	1			
o-Terphenyl	138	S1+	70 - 130	03/28/25 13:37	03/30/25 00:40	1			

Lab Sample ID: LCS 880-106354/2-A

Matrix: Solid

Analysis Batch: 106417

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 106354

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec
		Result	Qualifier			Limits	Limits
Gasoline Range Organics (GRO)-C6-C10	1000	875.7		mg/Kg		88	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1057		mg/Kg		106	70 - 130
Surrogate	LCS	LCS	Limits				
	%Recovery	Qualifier					
1-Chlorooctane	104		70 - 130				
o-Terphenyl	119		70 - 130				

Lab Sample ID: LCSD 880-106354/3-A

Matrix: Solid

Analysis Batch: 106417

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 106354

Analyte			Spike	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	RPD
			Added	Result	Qualifier			Limits	Limit		
Gasoline Range Organics (GRO)-C6-C10			1000	848.9		mg/Kg		85	70 - 130	3	20
Diesel Range Organics (Over C10-C28)			1000	1014		mg/Kg		101	70 - 130	4	20
</											

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-106358/1-A

Matrix: Solid

Analysis Batch: 106413

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	<0.395	U	10.0	0.395	mg/Kg			03/29/25 14:33	1

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QC Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites

Job ID: 880-56185-2
SDG: Lea County nm

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-106358/2-A					Client Sample ID: Lab Control Sample				
Matrix: Solid					Prep Type: Soluble				
Analysis Batch: 106413									
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	250	256.0		mg/Kg		102	90 - 110		

Lab Sample ID: LCSD 880-106358/3-A					Client Sample ID: Lab Control Sample Dup				
Matrix: Solid					Prep Type: Soluble				
Analysis Batch: 106413									
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	256.9		mg/Kg		103	90 - 110	0	20

QC Association Summary

Client: Arcadis US Inc.
Project/Site: NM Sites

Job ID: 880-56185-2
SDG: Lea County nm

GC VOA

Analysis Batch: 106301

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-56185-1	SW-1 0-4'	Total/NA	Solid	8021B	106364
880-56185-2	SW-2 0-4'	Total/NA	Solid	8021B	106364
880-56185-3	SW-5 0-4'	Total/NA	Solid	8021B	106364
880-56185-10	SW-4 0-4'	Total/NA	Solid	8021B	106364
880-56185-11	SW-3 0-4'	Total/NA	Solid	8021B	106364
MB 880-106307/5-A	Method Blank	Total/NA	Solid	8021B	106307
MB 880-106364/5-A	Method Blank	Total/NA	Solid	8021B	106364
LCS 880-106364/1-A	Lab Control Sample	Total/NA	Solid	8021B	106364
LCSD 880-106364/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	106364
880-56185-1 MS	SW-1 0-4'	Total/NA	Solid	8021B	106364
880-56185-1 MSD	SW-1 0-4'	Total/NA	Solid	8021B	106364

Prep Batch: 106307

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-106307/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 106364

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-56185-1	SW-1 0-4'	Total/NA	Solid	5030B	
880-56185-2	SW-2 0-4'	Total/NA	Solid	5030B	
880-56185-3	SW-5 0-4'	Total/NA	Solid	5030B	
880-56185-10	SW-4 0-4'	Total/NA	Solid	5030B	
880-56185-11	SW-3 0-4'	Total/NA	Solid	5030B	
MB 880-106364/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-106364/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-106364/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
880-56185-1 MS	SW-1 0-4'	Total/NA	Solid	5030B	
880-56185-1 MSD	SW-1 0-4'	Total/NA	Solid	5030B	

Analysis Batch: 106567

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-56185-1	SW-1 0-4'	Total/NA	Solid	Total BTEX	
880-56185-2	SW-2 0-4'	Total/NA	Solid	Total BTEX	
880-56185-3	SW-5 0-4'	Total/NA	Solid	Total BTEX	
880-56185-10	SW-4 0-4'	Total/NA	Solid	Total BTEX	
880-56185-11	SW-3 0-4'	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 106354

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-56185-1	SW-1 0-4'	Total/NA	Solid	8015NM Prep	
880-56185-2	SW-2 0-4'	Total/NA	Solid	8015NM Prep	
880-56185-3	SW-5 0-4'	Total/NA	Solid	8015NM Prep	
880-56185-10	SW-4 0-4'	Total/NA	Solid	8015NM Prep	
880-56185-11	SW-3 0-4'	Total/NA	Solid	8015NM Prep	
MB 880-106354/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-106354/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-106354/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Arcadis US Inc.
Project/Site: NM Sites

Job ID: 880-56185-2
SDG: Lea County nm

GC Semi VOA

Analysis Batch: 106417

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-56185-1	SW-1 0-4'	Total/NA	Solid	8015B NM	106354
880-56185-2	SW-2 0-4'	Total/NA	Solid	8015B NM	106354
880-56185-3	SW-5 0-4'	Total/NA	Solid	8015B NM	106354
880-56185-10	SW-4 0-4'	Total/NA	Solid	8015B NM	106354
880-56185-11	SW-3 0-4'	Total/NA	Solid	8015B NM	106354
MB 880-106354/1-A	Method Blank	Total/NA	Solid	8015B NM	106354
LCS 880-106354/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	106354
LCSD 880-106354/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	106354

Analysis Batch: 106510

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-56185-1	SW-1 0-4'	Total/NA	Solid	8015 NM	
880-56185-2	SW-2 0-4'	Total/NA	Solid	8015 NM	
880-56185-3	SW-5 0-4'	Total/NA	Solid	8015 NM	
880-56185-10	SW-4 0-4'	Total/NA	Solid	8015 NM	
880-56185-11	SW-3 0-4'	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 106358

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-56185-1	SW-1 0-4'	Soluble	Solid	DI Leach	
880-56185-2	SW-2 0-4'	Soluble	Solid	DI Leach	
880-56185-3	SW-5 0-4'	Soluble	Solid	DI Leach	
880-56185-10	SW-4 0-4'	Soluble	Solid	DI Leach	
880-56185-11	SW-3 0-4'	Soluble	Solid	DI Leach	
MB 880-106358/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-106358/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-106358/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 106413

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-56185-1	SW-1 0-4'	Soluble	Solid	300.0	106358
880-56185-2	SW-2 0-4'	Soluble	Solid	300.0	106358
880-56185-3	SW-5 0-4'	Soluble	Solid	300.0	106358
880-56185-10	SW-4 0-4'	Soluble	Solid	300.0	106358
880-56185-11	SW-3 0-4'	Soluble	Solid	300.0	106358
MB 880-106358/1-A	Method Blank	Soluble	Solid	300.0	106358
LCS 880-106358/2-A	Lab Control Sample	Soluble	Solid	300.0	106358
LCSD 880-106358/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	106358

Eurofins Midland

Lab Chronicle

Client: Arcadis US Inc.
Project/Site: NM Sites

Job ID: 880-56185-2
SDG: Lea County nm

Client Sample ID: SW-1 0-4'

Lab Sample ID: 880-56185-1

Date Collected: 03/28/25 09:00

Matrix: Solid

Date Received: 03/28/25 14:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.99 g	5 mL	106364	03/28/25 15:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	106301	03/28/25 23:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			106567	03/28/25 23:12	AJ	EET MID
Total/NA	Analysis	8015 NM		1			106510	03/30/25 04:23	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	106354	03/28/25 13:45	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	106417	03/30/25 04:23	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	106358	03/28/25 16:30	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	106413	03/29/25 15:27	CH	EET MID

Client Sample ID: SW-2 0-4'

Lab Sample ID: 880-56185-2

Date Collected: 03/28/25 09:10

Matrix: Solid

Date Received: 03/28/25 14:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.05 g	5 mL	106364	03/28/25 15:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	106301	03/28/25 23:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			106567	03/28/25 23:32	AJ	EET MID
Total/NA	Analysis	8015 NM		1			106510	03/30/25 04:54	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	106354	03/28/25 13:45	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	106417	03/30/25 04:54	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	106358	03/28/25 16:30	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	106413	03/29/25 15:49	CH	EET MID

Client Sample ID: SW-5 0-4'

Lab Sample ID: 880-56185-3

Date Collected: 03/28/25 09:20

Matrix: Solid

Date Received: 03/28/25 14:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.03 g	5 mL	106364	03/28/25 15:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	106301	03/28/25 23:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			106567	03/28/25 23:53	AJ	EET MID
Total/NA	Analysis	8015 NM		1			106510	03/30/25 05:10	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	106354	03/28/25 13:45	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	106417	03/30/25 05:10	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	106358	03/28/25 16:30	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	106413	03/29/25 15:56	CH	EET MID

Client Sample ID: SW-4 0-4'

Lab Sample ID: 880-56185-10

Date Collected: 03/28/25 11:00

Matrix: Solid

Date Received: 03/28/25 14:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.05 g	5 mL	106364	03/28/25 15:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	106301	03/29/25 02:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			106567	03/29/25 02:16	AJ	EET MID

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Lab Chronicle

Client: Arcadis US Inc.
Project/Site: NM Sites

Job ID: 880-56185-2
SDG: Lea County nm

Client Sample ID: SW-4 0-4'
Date Collected: 03/28/25 11:00
Date Received: 03/28/25 14:00

Lab Sample ID: 880-56185-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			106510	03/30/25 07:01	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	106354	03/28/25 13:45	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	106417	03/30/25 07:01	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	106358	03/28/25 16:30	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	106413	03/29/25 16:03	CH	EET MID

Client Sample ID: SW-3 0-4'
Date Collected: 03/28/25 11:05
Date Received: 03/28/25 14:00

Lab Sample ID: 880-56185-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.05 g	5 mL	106364	03/28/25 15:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	106301	03/29/25 03:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			106567	03/29/25 03:51	AJ	EET MID
Total/NA	Analysis	8015 NM		1			106510	03/30/25 07:17	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	106354	03/28/25 13:45	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	106417	03/30/25 07:17	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	106358	03/28/25 16:30	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	106413	03/29/25 16:10	CH	EET MID

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

Accreditation/Certification Summary

Client: Arcadis US Inc.
Project/Site: NM Sites

Job ID: 880-56185-2
SDG: Lea County nm

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Arcadis US Inc.
Project/Site: NM Sites

Job ID: 880-56185-2
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
5030B	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: Arcadis US Inc.
Project/Site: NM Sites

Job ID: 880-56185-2
SDG: Lea County nm

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-56185-1	SW-1 0-4'	Solid	03/28/25 09:00	03/28/25 14:00
880-56185-2	SW-2 0-4'	Solid	03/28/25 09:10	03/28/25 14:00
880-56185-3	SW-5 0-4'	Solid	03/28/25 09:20	03/28/25 14:00
880-56185-10	SW-4 0-4'	Solid	03/28/25 11:00	03/28/25 14:00
880-56185-11	SW-3 0-4'	Solid	03/28/25 11:05	03/28/25 14:00

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Eurofins Midland

1211 W. Florida Ave
Midland, TX 79701
Phone: 432-704-5440

Chain of Custody Record



Environment Testing

Client Information		Sampler: <u>Heath Boyd</u>		Lab PM: <u>Builes, John</u>	Carrier Tracking No(s):	COC No: 880-11167-1628.2
Client Contact: <u>Mr. Morgan Jordan</u>		Phone: <u>575-942-0292</u>		E-Mail: <u>John.Builes@et.eurofins.com</u>	State of Origin: <u>NM</u>	Page: <u>2 of 14</u>
Company: <u>Arcadis US Inc.</u>		PWSD:		Analysis Request		
Address: <u>1004 North Big Spring Suite 300</u>		Due Date Requested:		Barcode:		
City: <u>Midland</u>		TAT Requested (days):		880-56185 Chain of Custody		
State/Zip: <u>TX, 79701</u>		Compliance Project: <u>Δ Yes Δ No</u>				
Phone: <u>281-644-9437 (Tel)</u>		PO #: <u>30237098-00004</u>				
Email: <u>douglas.jordan@arcadis.com</u>		Purchase Order Requested				
Project Name: <u>NM Sites</u>		WO #: <u>88002020</u>				
Site: <u>Lea County, NM</u>		Project #: <u>88002020</u>				
SSOW#:		Sample Date		Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastewater, BT=tissue, A=air)
Sample Identification		Sample Date	Sample Time	Sample Type	Matrix	Preservation Code
<u>SW-1-Ø-4'</u>	<u>3/28/25</u>	<u>900</u>	<u>C</u>	<u>Solid</u>	<u>Solid</u>	<u>24 hr. flush on</u>
<u>SW-2-Ø-4'</u>	<u>910</u>	<u>Solid</u>	<u>Solid</u>	<u>SW-1, 2, 4, 5, 3</u>		
<u>SW-5-Ø-4'</u>	<u>920</u>	<u>Solid</u>	<u>Solid</u>	<u>3-Day on B-21 through B-26</u>		
<u>B-21-4'</u>	<u>930</u>	<u>Solid</u>	<u>Solid</u>			
<u>B-22-4'</u>	<u>940</u>	<u>Solid</u>	<u>Solid</u>			
<u>B-23-4'</u>	<u>950</u>	<u>Solid</u>	<u>Solid</u>			
<u>B-24-4'</u>	<u>1000</u>	<u>Solid</u>	<u>Solid</u>			
<u>B-25-4'</u>	<u>1010</u>	<u>Solid</u>	<u>Solid</u>			
<u>B-26-4'</u>	<u>1020</u>	<u>Solid</u>	<u>Solid</u>			
<u>SW-4-Ø-4'</u>	<u>3/28/25</u>	<u>1100</u>	<u>X</u>	<u>Solid</u>		
<u>SW-3-Ø-4'</u>	<u>3/28/25</u>	<u>1105</u>	<u>C</u>	<u>Solid</u>		
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify)						
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months						
Special Instructions/QC Requirements:						
Method of Shipment:						
Relinquished by: <u>R</u>		Date: <u>3/28/25</u>		Company: <u>Arcadis</u>		Received by: <u>J. Warner</u>
Relinquished by:		Date/Time:		Company:		Date/Time: <u>5:38:28 1400</u>
Relinquished by:		Date/Time:		Company:		Date/Time:
Custody Seal No.:		Custody Seal No.:		Custody Seal No.:		4.4/4.3

Login Sample Receipt Checklist

Client: Arcadis US Inc.

Job Number: 880-56185-2

SDG Number: Lea County nm

Login Number: 56185

List Number: 1

List Source: Eurofins Midland

Creator: Vasquez, Julisa

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	

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

Eurofins Midland



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Morgan Jordan
Arcadis US Inc.
1004 North Big Spring
Suite 300
Midland, Texas 79701

Generated 4/17/2025 12:28:30 PM

JOB DESCRIPTION

NM Sites
WLU 72

JOB NUMBER

880-56974-1

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
4/17/2025 12:28:30 PM

Authorized for release by
John Builes, Project Manager
John.Builes@et.eurofinsus.com
(561)558-4549

Client: Arcadis US Inc.
Project/Site: NM Sites

Laboratory Job ID: 880-56974-1
SDG: WLU 72

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Definitions/Glossary

Client: Arcadis US Inc.
Project/Site: NM Sites

Job ID: 880-56974-1
SDG: WLU 72

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.
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
SQL	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: Arcadis US Inc.
Project: NM Sites

Job ID: 880-56974-1

Job ID: 880-56974-1

Eurofins Midland

Job Narrative 880-56974-1

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 4/16/2025 1:25 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 4.5°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SB-18-B (880-56974-1) and SB-19-B (880-56974-2).

GC VOA

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

Diesel Range Organics

Method 8015MOD_NM: The method blank for preparation batch 880-107818 and analytical batch 880-107856 contained Gasoline Range Organics (GRO)-C6-C10 above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-107818/2-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: SB-18-B (880-56974-1), (880-56945-A-9-C), (880-56945-A-9-D MS) and (880-56945-A-9-E MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: SB-19-B (880-56974-2). 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: Arcadis US Inc.
Project/Site: NM Sites

Job ID: 880-56974-1
SDG: WLU 72

Client Sample ID: SB-18-B

Lab Sample ID: 880-56974-1

Date Collected: 04/14/25 12:00

Matrix: Solid

Date Received: 04/16/25 13:25

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		04/16/25 16:00	04/17/25 08:28	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		04/16/25 16:00	04/17/25 08:28	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		04/16/25 16:00	04/17/25 08:28	1
m-Xylene & p-Xylene	0.00443		0.00401	0.00229	mg/Kg		04/16/25 16:00	04/17/25 08:28	1
o-Xylene	<0.00159	U	0.00200	0.00159	mg/Kg		04/16/25 16:00	04/17/25 08:28	1
Xylenes, Total	0.00443		0.00401	0.00229	mg/Kg		04/16/25 16:00	04/17/25 08:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	04/16/25 16:00	04/17/25 08:28	1
1,4-Difluorobenzene (Surr)	87		70 - 130	04/16/25 16:00	04/17/25 08:28	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00443		0.00401	0.00229	mg/Kg			04/17/25 08:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	50.0	15.1	mg/Kg			04/17/25 01:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		04/16/25 08:30	04/17/25 01:59	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		04/16/25 08:30	04/17/25 01:59	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		04/16/25 08:30	04/17/25 01:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	132	S1+	70 - 130				04/16/25 08:30	04/17/25 01:59	1
o-Terphenyl	138	S1+	70 - 130				04/16/25 08:30	04/17/25 01:59	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	266		9.94	0.393	mg/Kg			04/16/25 22:02	1

Client Sample ID: SB-19-B

Lab Sample ID: 880-56974-2

Date Collected: 04/14/25 12:30

Matrix: Solid

Date Received: 04/16/25 13:25

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		04/16/25 13:44	04/17/25 00:15	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		04/16/25 13:44	04/17/25 00:15	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		04/16/25 13:44	04/17/25 00:15	1
m-Xylene & p-Xylene	<0.00229	U	0.00401	0.00229	mg/Kg		04/16/25 13:44	04/17/25 00:15	1
o-Xylene	<0.00159	U	0.00200	0.00159	mg/Kg		04/16/25 13:44	04/17/25 00:15	1
Xylenes, Total	<0.00229	U	0.00401	0.00229	mg/Kg		04/16/25 13:44	04/17/25 00:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	04/16/25 13:44	04/17/25 00:15	1
1,4-Difluorobenzene (Surr)	88		70 - 130	04/16/25 13:44	04/17/25 00:15	1

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Client Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites

Job ID: 880-56974-1
SDG: WLU 72

Client Sample ID: SB-19-B

Lab Sample ID: 880-56974-2

Date Collected: 04/14/25 12:30

Matrix: Solid

Date Received: 04/16/25 13:25

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00401	0.00229	mg/Kg			04/17/25 00:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	18.7	J	50.3	15.2	mg/Kg			04/17/25 02:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.6	U	50.3	14.6	mg/Kg		04/16/25 08:30	04/17/25 02:14	1
Diesel Range Organics (Over C10-C28)	18.7	J	50.3	15.2	mg/Kg		04/16/25 08:30	04/17/25 02:14	1
Oil Range Organics (Over C28-C36)	<15.2	U	50.3	15.2	mg/Kg		04/16/25 08:30	04/17/25 02:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	129		70 - 130				04/16/25 08:30	04/17/25 02:14	1
o-Terphenyl	136	S1+	70 - 130				04/16/25 08:30	04/17/25 02:14	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	238		9.96	0.393	mg/Kg			04/16/25 22:08	1

Surrogate Summary

Client: Arcadis US Inc.
Project/Site: NM Sites

Job ID: 880-56974-1
SDG: WLU 72

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)
880-56974-1	SB-18-B	106	87
880-56974-2	SB-19-B	103	88
LCS 880-107713/1-A	Lab Control Sample	113	89
LCS 880-107795/1-A	Lab Control Sample	103	96
LCSD 880-107713/2-A	Lab Control Sample Dup	103	96
LCSD 880-107795/2-A	Lab Control Sample Dup	100	96
MB 880-107713/5-A	Method Blank	103	86
MB 880-107795/5-A	Method Blank	97	89
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)
880-56974-1	SB-18-B	132 S1+	138 S1+
880-56974-2	SB-19-B	129	136 S1+
LCS 880-107818/2-A	Lab Control Sample	131 S1+	124
LCSD 880-107818/3-A	Lab Control Sample Dup	116	110
MB 880-107818/1-A	Method Blank	100	102
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites

Job ID: 880-56974-1
SDG: WLU 72

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-107713/5-A

Matrix: Solid

Analysis Batch: 107885

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 107713

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		04/15/25 09:02	04/17/25 03:09	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		04/15/25 09:02	04/17/25 03:09	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		04/15/25 09:02	04/17/25 03:09	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		04/15/25 09:02	04/17/25 03:09	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		04/15/25 09:02	04/17/25 03:09	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		04/15/25 09:02	04/17/25 03:09	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	04/15/25 09:02	04/17/25 03:09	1
1,4-Difluorobenzene (Surr)	86		70 - 130	04/15/25 09:02	04/17/25 03:09	1

Lab Sample ID: LCS 880-107713/1-A

Matrix: Solid

Analysis Batch: 107885

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 107713

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.07785		mg/Kg		78	70 - 130
Toluene	0.100	0.07239		mg/Kg		72	70 - 130
Ethylbenzene	0.100	0.07163		mg/Kg		72	70 - 130
m-Xylene & p-Xylene	0.200	0.1549		mg/Kg		77	70 - 130
o-Xylene	0.100	0.08137		mg/Kg		81	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	89		70 - 130

Lab Sample ID: LCSD 880-107713/2-A

Matrix: Solid

Analysis Batch: 107885

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 107713

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09009		mg/Kg		90	70 - 130	15	35
Toluene	0.100	0.08038		mg/Kg		80	70 - 130	10	35
Ethylbenzene	0.100	0.07891		mg/Kg		79	70 - 130	10	35
m-Xylene & p-Xylene	0.200	0.1607		mg/Kg		80	70 - 130	4	35
o-Xylene	0.100	0.08418		mg/Kg		84	70 - 130	3	35

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

Lab Sample ID: MB 880-107795/5-A

Matrix: Solid

Analysis Batch: 107885

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 107795

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		04/15/25 16:59	04/16/25 16:12	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		04/15/25 16:59	04/16/25 16:12	1

Eurofins Midland

QC Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites

Job ID: 880-56974-1
SDG: WLU 72

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

Lab Sample ID: MB 880-107795/5-A

Matrix: Solid

Analysis Batch: 107885

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 107795

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		04/15/25 16:59	04/16/25 16:12	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		04/15/25 16:59	04/16/25 16:12	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		04/15/25 16:59	04/16/25 16:12	1
Xylenes, Total	<0.00229	U	0.00400	0.00229	mg/Kg		04/15/25 16:59	04/16/25 16:12	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	04/15/25 16:59	04/16/25 16:12	1
1,4-Difluorobenzene (Surr)	89		70 - 130	04/15/25 16:59	04/16/25 16:12	1

Lab Sample ID: LCS 880-107795/1-A

Matrix: Solid

Analysis Batch: 107885

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 107795

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09372		mg/Kg		94	70 - 130
Toluene	0.100	0.08751		mg/Kg		88	70 - 130
Ethylbenzene	0.100	0.08858		mg/Kg		89	70 - 130
m-Xylene & p-Xylene	0.200	0.1842		mg/Kg		92	70 - 130
o-Xylene	0.100	0.09379		mg/Kg		94	70 - 130

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

Lab Sample ID: LCSD 880-107795/2-A

Matrix: Solid

Analysis Batch: 107885

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 107795

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08255		mg/Kg		83	70 - 130	13	35
Toluene	0.100	0.07375		mg/Kg		74	70 - 130	17	35
Ethylbenzene	0.100	0.07433		mg/Kg		74	70 - 130	17	35
m-Xylene & p-Xylene	0.200	0.1491		mg/Kg		75	70 - 130	21	35
o-Xylene	0.100	0.07309		mg/Kg		73	70 - 130	25	35

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

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

Lab Sample ID: MB 880-107818/1-A

Matrix: Solid

Analysis Batch: 107856

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 107818

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	20.62	J	50.0	14.5	mg/Kg		04/16/25 08:30	04/16/25 20:01	1

Eurofins Midland

QC Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites

Job ID: 880-56974-1
SDG: WLU 72

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

Lab Sample ID: MB 880-107818/1-A

Matrix: Solid

Analysis Batch: 107856

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 107818

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		04/16/25 08:30	04/16/25 20:01	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		04/16/25 08:30	04/16/25 20:01	1
Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac			
	%Recovery	Qualifier							
1-Chlorooctane	100		70 - 130	04/16/25 08:30	04/16/25 20:01	1			
o-Terphenyl	102		70 - 130	04/16/25 08:30	04/16/25 20:01	1			

Lab Sample ID: LCS 880-107818/2-A

Matrix: Solid

Analysis Batch: 107856

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 107818

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec
		Result	Qualifier			Limits	Limits
Gasoline Range Organics (GRO)-C6-C10	1000	944.8		mg/Kg		94	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1090		mg/Kg		109	70 - 130
Surrogate	LCS	LCS	Limits				
	%Recovery	Qualifier					
1-Chlorooctane	131	S1+	70 - 130				
o-Terphenyl	124		70 - 130				

Lab Sample ID: LCSD 880-107818/3-A

Matrix: Solid

Analysis Batch: 107856

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 107818

Analyte			Spike	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	RPD
			Added	Result	Qualifier				Limits		Limit
Gasoline Range Organics (GRO)-C6-C10			1000	867.6		mg/Kg		87	70 - 130	9	20
Diesel Range Organics (Over C10-C28)			1000	1004		mg/Kg		100	70 - 130	8	20
Surrogate	LCSD		Limits								
	%Recovery	Qualifier									
1-Chlorooctane	116		70 - 130								
o-Terphenyl	110		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-107889/1-A

Matrix: Solid

Analysis Batch: 107893

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	<0.395	U	10.0	0.395	mg/Kg			04/16/25 19:33	1

Eurofins Midland

QC Sample Results

Client: Arcadis US Inc.
Project/Site: NM Sites

Job ID: 880-56974-1
SDG: WLU 72

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-107889/2-A

Matrix: Solid

Analysis Batch: 107893

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	267.0		mg/Kg		107	90 - 110

Lab Sample ID: LCSD 880-107889/3-A

Matrix: Solid

Analysis Batch: 107893

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	268.2		mg/Kg		107	90 - 110	0	20

QC Association Summary

Client: Arcadis US Inc.
Project/Site: NM Sites

Job ID: 880-56974-1
SDG: WLU 72

GC VOA

Prep Batch: 107713

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-56974-1	SB-18-B	Total/NA	Solid	5030B	
MB 880-107713/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-107713/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-107713/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	

Prep Batch: 107795

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-56974-2	SB-19-B	Total/NA	Solid	5030B	
MB 880-107795/5-A	Method Blank	Total/NA	Solid	5030B	
LCS 880-107795/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 880-107795/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	

Analysis Batch: 107885

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-56974-1	SB-18-B	Total/NA	Solid	8021B	107713
880-56974-2	SB-19-B	Total/NA	Solid	8021B	107795
MB 880-107713/5-A	Method Blank	Total/NA	Solid	8021B	107713
MB 880-107795/5-A	Method Blank	Total/NA	Solid	8021B	107795
LCS 880-107713/1-A	Lab Control Sample	Total/NA	Solid	8021B	107713
LCS 880-107795/1-A	Lab Control Sample	Total/NA	Solid	8021B	107795
LCSD 880-107713/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	107713
LCSD 880-107795/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	107795

Analysis Batch: 107958

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-56974-1	SB-18-B	Total/NA	Solid	Total BTEX	
880-56974-2	SB-19-B	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 107818

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-56974-1	SB-18-B	Total/NA	Solid	8015NM Prep	
880-56974-2	SB-19-B	Total/NA	Solid	8015NM Prep	
MB 880-107818/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-107818/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-107818/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 107856

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-56974-1	SB-18-B	Total/NA	Solid	8015B NM	107818
880-56974-2	SB-19-B	Total/NA	Solid	8015B NM	107818
MB 880-107818/1-A	Method Blank	Total/NA	Solid	8015B NM	107818
LCS 880-107818/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	107818
LCSD 880-107818/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	107818

Analysis Batch: 107955

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-56974-1	SB-18-B	Total/NA	Solid	8015 NM	
880-56974-2	SB-19-B	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Arcadis US Inc.
Project/Site: NM Sites

Job ID: 880-56974-1
SDG: WLU 72

HPLC/IC

Leach Batch: 107889

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-56974-1	SB-18-B	Soluble	Solid	DI Leach	
880-56974-2	SB-19-B	Soluble	Solid	DI Leach	
MB 880-107889/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-107889/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-107889/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 107893

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-56974-1	SB-18-B	Soluble	Solid	300.0	107889
880-56974-2	SB-19-B	Soluble	Solid	300.0	107889
MB 880-107889/1-A	Method Blank	Soluble	Solid	300.0	107889
LCS 880-107889/2-A	Lab Control Sample	Soluble	Solid	300.0	107889
LCSD 880-107889/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	107889

Lab Chronicle

Client: Arcadis US Inc.
Project/Site: NM Sites

Job ID: 880-56974-1
SDG: WLU 72

Client Sample ID: SB-18-B
Date Collected: 04/14/25 12:00
Date Received: 04/16/25 13:25

Lab Sample ID: 880-56974-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.99 g	5 mL	107713	04/16/25 16:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	107885	04/17/25 08:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			107958	04/17/25 08:28	SM	EET MID
Total/NA	Analysis	8015 NM		1			107955	04/17/25 01:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	107818	04/16/25 08:30	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	107856	04/17/25 01:59	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	107889	04/16/25 14:12	SA	EET MID
Soluble	Analysis	300.0		1			107893	04/16/25 22:02	CH	EET MID

Client Sample ID: SB-19-B
Date Collected: 04/14/25 12:30
Date Received: 04/16/25 13:25

Lab Sample ID: 880-56974-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4.99 g	5 mL	107795	04/16/25 13:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	107885	04/17/25 00:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			107958	04/17/25 00:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			107955	04/17/25 02:14	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	107818	04/16/25 08:30	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	107856	04/17/25 02:14	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	107889	04/16/25 14:12	SA	EET MID
Soluble	Analysis	300.0		1			107893	04/16/25 22:08	CH	EET MID

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

Accreditation/Certification Summary

Client: Arcadis US Inc.
Project/Site: NM Sites

Job ID: 880-56974-1
SDG: WLU 72

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Arcadis US Inc.
Project/Site: NM Sites

Job ID: 880-56974-1
SDG: WLU 72

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
5030B	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: Arcadis US Inc.
Project/Site: NM Sites

Job ID: 880-56974-1
SDG: WLU 72

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-56974-1	SB-18-B	Solid	04/14/25 12:00	04/16/25 13:25
880-56974-2	SB-19-B	Solid	04/14/25 12:30	04/16/25 13:25

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

Eurofins Midland

1211 W. Florida Ave
Midland, TX 79701
Phone: 432-704-5440

Chain of Custody Record



Environment Testing

Client Information Client Contact: Mr. Morgan Jordan Company: Arcadis US Inc. Address: 1004 North Big Spring Suite 300 City: Midland State, Zip: TX, 79701 Phone: 281-644-9437 (Tel) Email: douglas.jordan@arcadis.com Project Name: NM Sites Site: WLU72		Sampler: Luis Esparza Lab PM: Bulles, John Phone: 575-441-1484 E-Mail: John.Bulles@eurofins.com PWSID:		Carrier Tracking No(s): State of Origin: NM Lab No: 880-11167-1628 10 Page: 1 of 1	
Due Date Requested: TAT Requested (days): 24 hr rush Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No PO #: Purchase Order Requested WO #: Project #: 3023709800004 SSO#:		Analysis Requested Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> N Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> N 300.ORGFM_28D, 8015MOD_NM, 8021B			
Sample Identification SB-18-B-4/16/25 (4B) SB-19-B-4/15/25-1230 C SB-18-B-4/14/25 1200 C SB-19-B-4/14/25 1230 C		Sample Date 4/15/25 4/15/25 4/14/25 4/14/25	Sample Time 1200 1230 1200 1230	Sample Type (C=comp, G=grab) C C C C	Matrix (W=water, S=solid, O=other) Solid Solid Solid Solid
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/QC Requirements:			
Empty Kit Relinquished by:		Method of Shipment:			
Relinquished by:		Received by:			
Relinquished by:		Received by:			
Relinquished by:		Received by:			
Custody Seals Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Cooler Temperature(s) °C and Other Remarks: 4.0/4.5 -1 IR8			

Login Sample Receipt Checklist

Client: Arcadis US Inc.

Job Number: 880-56974-1

SDG Number: WLU 72

Login Number: 56974

List Number: 1


Creator: Vasquez, Julisa

List Source: Eurofins Midland


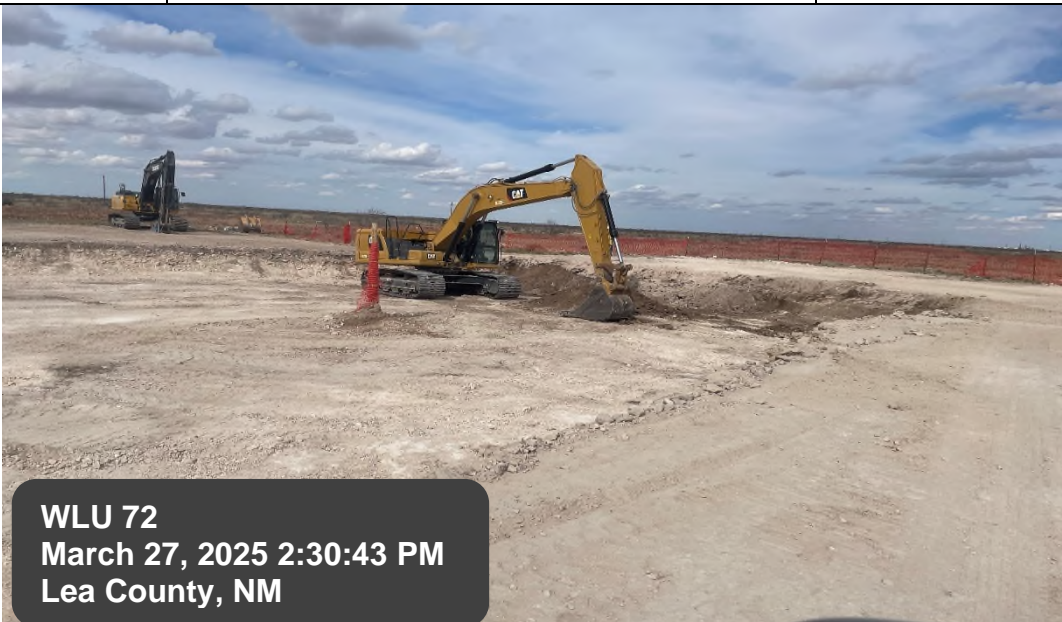
Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature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

Appendix D


Photo Log

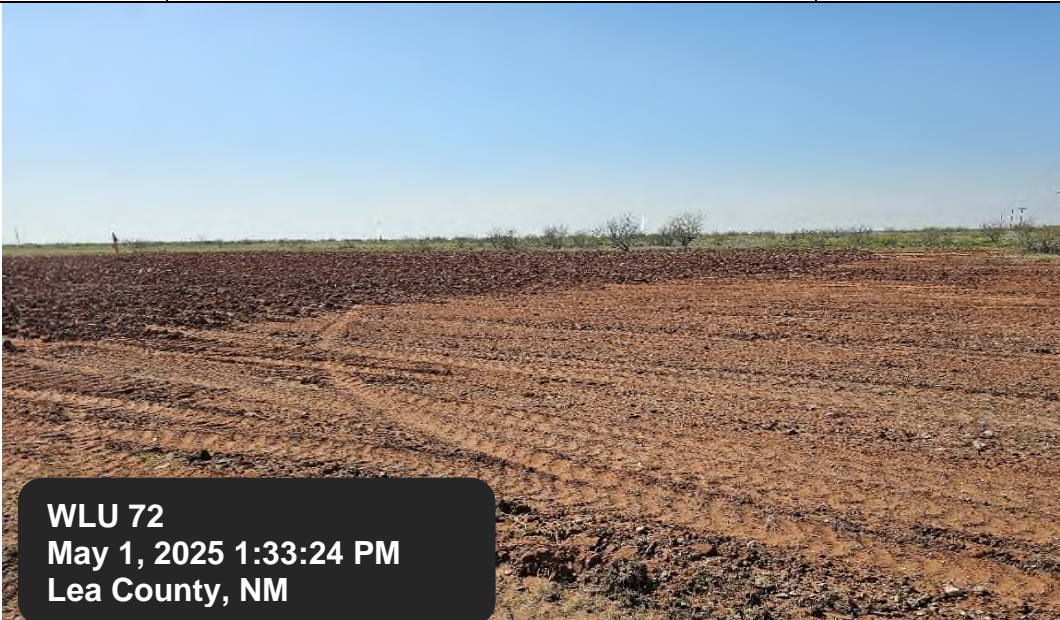
		PHOTOGRAPHIC LOG	
Property Name: West Lovington Unit #072		Location: Lea County, NM	Incident No. nTO1424541014
Photo No. 1	Date: 3/27/2025		
Coordinates: 32.864039, -103.363912			
Description: Excavation completed.			

WLU 72
March 27, 2025 2:25:31 PM
Lea County, NM

		PHOTOGRAPHIC LOG	
Property Name: West Lovington Unit #072		Location: Lea County, NM	Incident No. nTO1424541014
Photo No. 2	Date: 3/27/2025		
Coordinates: 32.864039, -103.363912			
Description: Excavation completed.			

WLU 72
March 27, 2025 2:30:43 PM
Lea County, NM

ARCADIS		PHOTOGRAPHIC LOG	
Property Name: West Lovington Unit #072		Location: Lea County, NM	Incident No. nTO1424541014
Photo No. 3	Date: 5/01/2025		
Coordinates: 32.864039, -103.363912			
Description: Excavation backfill complete.			

ARCADIS		PHOTOGRAPHIC LOG	
Property Name: West Lovington Unit #072		Location: Lea County, NM	Incident No. nTO1424541014
Photo No. 4	Date: 5/01/2025		
Coordinates: 32.864039, -103.363912			
Description: Excavation backfilled and restored.			

Arcadis U.S., Inc.
1330 Post Oak Blvd., Suite 2250
Houston
Texas 77056
Phone: 713 953 4800
www.arcadis.com

Arcadis. Improving quality of life.

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QUESTIONS

Action 459603

QUESTIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 459603
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Prerequisites	
Incident ID (n#)	nTO1424541014
Incident Name	NT01424541014 WEST LOVINGTON UNIT #72 @ 30-025-30964
Incident Type	Produced Water Release
Incident Status	Reclamation Report Received
Incident Well	[30-025-30964] WEST LOVINGTON UNIT #072

Location of Release Source

Please answer all the questions in this group.

Site Name	West Lovington Unit #72
Date Release Discovered	11/13/2013
Surface Owner	State

Incident Details

Please answer all the questions in this group.

Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.

Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Blow Out Well Produced Water Released: 11 BBL Recovered: 0 BBL Lost: 11 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
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)	none

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QUESTIONS, Page 2

Action 459603

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 459603
	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	Unavailable.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

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

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

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: Chris Brand Title: Lead Environmental Specialist Email: Chrisbrand@chevron.com Date: 05/07/2025
--	--

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QUESTIONS, Page 3

Action 459603

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 459603
	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 51 and 75 (ft.)
What method was used to determine the depth to ground water	Direct Measurement
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1000 (ft.) and ½ (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between ½ and 1 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 500 and 1000 (ft.)
Any other fresh water well or spring	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Between 500 and 1000 (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 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
<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)	7720
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	94.9
GRO+DRO (EPA SW-846 Method 8015M)	94.9
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	02/17/2025
On what date will (or did) the final sampling or liner inspection occur	03/14/2025
On what date will (or was) the remediation complete(d)	04/14/2025
What is the estimated surface area (in square feet) that will be reclaimed	30000
What is the estimated volume (in cubic yards) that will be reclaimed	3375
What is the estimated surface area (in square feet) that will be remediated	15000
What is the estimated volume (in cubic yards) that will be remediated	2250

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 459603

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 459603
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	GANDY MARLEY LANDFARM/LANDFILL [FEEM0112338393]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	No
OR is the off-site disposal site, to be used, an NMED facility	No
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Chris Brand Title: Lead Environmental Specialist Email: Chrisbrand@chevron.com Date: 01/15/2025
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 459603

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 459603
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

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

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QUESTIONS, Page 6

Action 459603

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 459603
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	445798
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	03/28/2025
What was the (estimated) number of samples that were to be gathered	45
What was the sampling surface area in square feet	15000

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	9825
What was the total volume (cubic yards) remediated	1445
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	9825
What was the total volume (in cubic yards) reclaimed	1445
Summarize any additional remediation activities not included by answers (above)	n/a

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

I hereby agree and sign off to the above statement	Name: Chris Brand Title: Lead Environmental Specialist Email: Chrisbrand@chevron.com Date: 05/07/2025
--	--

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QUESTIONS, Page 7

Action 459603

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 459603
	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	9825
What was the total volume of replacement material (in cubic yards) for this site	1445
<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 reseedling commence(d)	06/30/2025
Summarize any additional reclamation activities not included by answers (above)	n/a
<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 reseedling 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: Chris Brand Title: Lead Environmental Specialist Email: Chrisbrand@chevron.com Date: 05/07/2025

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QUESTIONS, Page 8

Action 459603

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 459603
	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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CONDITIONS

Action 459603

CONDITIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 459603
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

CONDITIONS

Created By	Condition	Condition Date
scwells	Reclamation approved. Operator failed to provide proper Sampling Notification pursuant to 19.15.29.12.D.(1).(a) NMAC. Failure to provide proper sampling notice is a compliance issue and the OCD may pursue compliance actions pursuant to 19.15.5 NMAC. Operator shall ensure future compliance with 19.15.29.12.D.(1).(a) NMAC. A sampling notification was not submitted for confirmation samples collected on 3/20/25. Please note that going forward a separate C-141N is required to be submitted two business days prior to sample collection for each day of sampling as the OCD will be witnessing future sampling and needs to know when they should show up to do so.	5/15/2025